Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2015. Part 1. C_1 – C_{10}

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Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2015. Part 1. C_1-C_{10}

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A compendium of phase change enthalpies published in 2010 is updated to include the period 1880–2015. Phase change enthalpies including fusion, vaporization, and sublimation enthalpies are included for organic, organometallic, and a few inorganic compounds. Part 1 of this compendium includes organic compounds from C_1 to C_{10}. Part 2 of this compendium, to be published separately, will include organic and organometallic compounds from C_{11} to C_{192}. Sufficient data are presently available to permit thermodynamic cycles to be constructed as an independent means of evaluating the reliability of the data. Temperature adjustments of phase change enthalpies from the temperature of measurement to the standard reference temperature, T = 298.15 K, and a protocol for doing so are briefly discussed. [http://dx.doi.org/10.1063/1.4948363]

Key words: compendium; fusion enthalpy; sublimation enthalpy; vaporization enthalpy.

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1. Introduction

This compendium updates a previous report published in 2010 [2010ACR/CHI] on phase change enthalpies. Part 1 of this compendium is inclusive and includes organic compounds containing from one to ten carbon atoms published over the period of 1880 to 2015 and includes a total of over 6600 entries. Part 2 of this series to be published separately contains over 7400 entries covering both organic compounds from eleven to 192 carbons, organometallic, and organic ionic liquids. Current interest in thermochemical properties of these materials is reflected by the 15% increase in the number of publications reported during the five year interval since the 2010 publication. While many of these properties are freely available online [http://webbook.nist.gov/chemistry/, http://trc.nist.gov/thermolit/], each compound in these sources needs to be searched individually. A goal of this publication is to provide to those interested direct access to the entire collection of experimental phase change enthalpies of compounds that have been measured in addition to allowing electronic searching using available software. Since phase change properties are useful to a variety of disciplines they are frequently reported as part of other projects. A goal of this compendium is to provide a single location for identifying and accessing work that may have been published in specialty journals focusing on other topics.

2. Phase Change Enthalpies

Sublimation, vaporization, and fusion enthalpies are related to each other by Eq. (1) provided temperature T for all three terms is the same. Unlike fusion enthalpy, sublimation and vaporization enthalpies are frequently measured as a function of temperature, where T frequently refers to the mean temperature of measurement, T_m. Fusion enthalpies of pure materials occur on the other hand isothermally at T_{fus}. The complication that arises in applying Eq. (1) is that frequently it is necessary to adjust two or all three measurements to the same temperature, often the reference temperature, $T = 298.15$ K. In principle, to do so requires information regarding the heat capacity of at least two of the three phases involved, Cp(g), Cp(l), and Cp(cr) and is further complicated by their temperature dependence,

$$\Delta_{sub}H_m(T) = \Delta_{vap}H_m(T) + \Delta_{fus}H_m(T). \quad (1)$$

Heat capacities for Cp(l) and Cp(cr) are available for many compounds and can be measured as a function of temperature. Experimental heat capacities of the gas phase at temperatures when the material is either solid or liquid are more problematic. Gas phase heat capacities for these materials are frequently calculated. Statistical mechanics combined with *ab initio* calculations are usually employed (see [2010SAN/ROC] for example). An alternative approach that has been developed for adjusting phase change enthalpies with temperature aimed at circumventing the scarcity of experimental gas phase heat capacities is described by Eq. (2) for liquids and Eq. (3) for solids, [1993CHI/HOS]

$$\Delta_{vap}H_m(T/\mathrm{K})/\mathrm{kJ\ mol^{-1}} = \Delta_{vap}H_m(T_m/K) + \Delta_l{}^gCp_{298K}(l)\cdot\Delta T, \quad (2)$$

$$\text{where : } \Delta_l{}^gCp(l)\cdot\Delta T = (10.58 + 0.26Cp_{298K}(l))\cdot(\Delta T)/1000 \text{ and}$$

$$\Delta_{sub}H_m(T/\mathrm{K})/\mathrm{kJ\ mol^{-1}} = \Delta_{sub}H_m(T_m/\mathrm{K}) + \Delta_{cr}{}^gCp(l)\cdot\Delta T, \quad (3)$$

$$\text{where : } \Delta_{cr}{}^gCp(cr)\cdot\Delta T = (0.75 + 0.15Cp_{298K}(cr))\cdot(\Delta T)/1000.$$

In both Eqs. (2) and (3), ΔT refers to $T_m - T_R$, where T_m/K often represents the mean temperature of measurement and T_R is usually the reference temperature, 298.15 K; $Cp_{298.15K}$(l) and $Cp_{298.15K}$(cr) refer to the heat capacity of the liquid and solid at $T = 298.15$, respectively. Either experimental or estimated heat capacities can be used. Equations (2) and (3) were derived using heat capacities estimated by group additivity. By appropriate manipulation of Eqs. (2) and (3), it is also possible to arrive at a means of adjusting fusion enthalpies with temperature, Eq. (4),

$$\Delta_{cr}{}^gCp_{298K}(l)\cdot\Delta T - \Delta_l{}^gCp_{298K}(cr)\cdot\Delta T = \Delta_{cr}{}^lCp_{298K}(cr)\cdot\Delta T$$

$$\Delta_{cr}{}^lCp_{298K}(cr)\cdot\Delta T = [0.15Cp_{298K}(cr) - 0.26Cp_{298K}(l) - 9.93]\cdot\Delta T. \quad (4)$$

The term $\Delta_{cr}{}^gCp_{298K}(cr) = (0.75 + 0.15Cp_{298K}(cr))$ has also been used for evaluating values of the gas phase heat capacity of a solid, Eq. (5). [2010MON/ALM] Similarly, gas phase heat capacities of the liquids could be evaluated using a similar approach together with Eq. (2). Although Eq. (2) does not seem to have been used in this manner, Eq. (6) can be derived in the same manner. This is illustrated for both solids and liquids in Sec. 3.2 for several compounds,

$$\Delta_{cr}{}^gCp_{298K}(cr) = [Cp_{298K}(g) - Cp_{298K}(cr)] = (0.75 + 0.15Cp_{298K}(cr)).$$

Rearranging and solving for Cp_{298K}(g),

$$Cp_{298K}(g) = 0.85Cp_{298K}(cr) - 0.75, \quad (5)$$

$$Cp_{298K}(g) = 0.74Cp_{298K}(l) - 10.58. \quad (6)$$

2.1. Estimation of condensed phase heat capacities

In order to apply Eqs. 2–6, reliable values of the heat capacity of the condensed phase are required. A number of methods have been developed over the years that vary in their

TABLE 1. Group values for estimation of liquid Γ (l) and solid Γ (s) heat capacities at $T = 298.15$ K[a]

	Group atoms	Γ(l) J K^{-1} mol^{-1}	Γ(s) J K^{-1} mol^{-1}
1. Hydrocarbon groups			
Primary sp^3 carbon	CH_3—	34.9 (25)	36.6 (14)
Secondary sp^3 carbon	—CH_2—	31.9 (24)	26.9 (14)
Tertiary sp^3 carbon	>CH—	22.4 (20)	9.0 (11)
Quaternary sp^3 carbon	>C<	14.0 (17)	−4.9 (41)
Secondary sp^2 carbon	=CH_2	25.8 (18)	[46.0] (5)
Tertiary sp^2 carbon	=CH—	27.8 (22)	21.4 (14)
Quaternary sp^2 carbon	=C<	21.7 (30)	6.9 (10)
Tertiary sp carbon	≡CH	[38.8] (9)	[25] (1)
Quaternary sp carbon	≡C— ; =C=	29.1 (15)	[15.1] (3)
2. Aromatic hydrocarbon and nitrogen groups			
Tertiary aromatic sp^2 carbon	=C_aH—	21.8 (32)	17.5 (27)
Quaternary aromatic sp^2	=C_a<	15.3 (32)	8.5 (27)
Internal quaternary aromatic carbon[b]	=C_a<		[8.2][b] (2)
Aromatic tertiary sp^2 nitrogen	=N_a—	20.7 (12)	13.9 (21)
3. Cyclic hydrocarbon groups			
Cyclic secondary sp^3 carbon	—C_cH_2—	25.9 (46)	24.6 (27)
Cyclic tertiary sp^3 carbon	>C_cH—	20.6 (40)	11.7 (20)
Cyclic quaternary sp^3 carbon	>C_c<	18 (13)	6.1 (21)
Cyclic tertiary sp^2 carbon	=C_cH—	21.8 (17)	18 (61)
Cyclic quaternary sp^2 carbon	=C_c<	21.2 (16)	6.6 (60)
Functional groups			
A. Monovalent groups			
Hydroxyl group (alcohols)	—OH	58.7 (85)	22.7 (42)
Hydroxyl group (phenols)	—OH	[74.9] (2)	23.2 (17)
Fluorine	—F	16.9 (45)	[24.0] (9)
Chlorine	—Cl	30.8 (76)	28.2 (32)
Bromine	—Br	34.5 (32)	30.9 (11)
Iodine	—I	[39.2] (9)	[27.6] (5)
Nitrile	—C≡N	49.9 (23)	41.6 (12)
Carboxylic acid	—(C=O)OH	89.4 (16)	51.3 (84)
Aldehyde	—(C=O)H	57.2 (22)	[36.3] (7)
Primary sp^3 nitrogen	—NH_2	59.4 (29)	23.5 (48)
Primary amide	—(C=O)NH_2	[41.1] (1)	49.6 (27)
Nitro group	—NO_2	[64.1] (7)	54.9 (18)
Monosubstituted urea	—NH(C=O)NH_2		86.5 (10)
Isocyanate	—N=C=O	[57.3] (8)	[54.5] (4)
Monosubstituted guanidine	—NH(C=NH)NH_2		[69.5] (2)
Thiol	—SH	47.2 (23)	[54.5] (2)
B. Acyclic divalent groups			
Ether	—O—	28.0 (62)	18.5 (13)
Ketone	—(C=O)—	49.4 (28)	[34.5] (9)
Ester	—(C=O)O—	63.9 (83)	42.2 (19)
Secondary amine	—NH—	47.0 (10)	[9.8] (3)
Secondary amide	—(C=O)NH—	80.9 (10)	46.9 (13)
Tertiary amide	—(C=O)N<	[68.8] (5)	
Sulfide	—S—	42.3 (21)	[26] (4)
Disulfide	—S—S—	[72.7] (3)	[40.5] (1)
Sulfoxide	>(S → O)	[83.2] (1)	[47.7] (1)
Sulfone	>(S → $O)_2$		[54.8] (3)
Carbamate	—NH(C=O)O—		[82.1] (6)
Oxime	=N—OH		[53.3] (2)
Carbonate	—O(C=O)O—	[77.4] (1)	[68.7] (1)
C. Acyclic trivalent groups			
Tertiary sp^3 nitrogen (tert amine)	—N<	29.7 (14)	[37.9] (7)
Tertiary sp^2 nitrogen	=N—	[36.6] (3)	[18.5] (8)
Tertiary amide	—(C=O)N<	[68.8] (5)	
Triphosphate ester	>O_2(P=O)—O—		[44.6] (2)
D. Acyclic quaternary group			
Quaternary silicon	>Si<	37.6 (33)	[40.2] (5)

TABLE 1. Group values for estimation of liquid Γ (l) and solid Γ (s) heat capacities at $T = 298.15$ K[a]—Continued

	Group atoms	Γ(l) J K^{-1} mol^{-1}	Γ(s) J K^{-1} mol^{-1}
E. Cyclic functional groups			
Cyclic anhydride	—(C=O)O(C=O)$_c$—		[78.5] (4)
Cyclic carbonate	—(O(C=O)O)$_c$—	[84.5] (6)	[68.7] (1)
Cyclic ether	—O$_c$—	23.2 (23)	10.3 (30)
Cyclic ester (lactone)	—((C=O)O)$_c$—	[69.4] (8)	[44.6] (6)
Cyclic imide	—((C=O)NH(C=O))$_c$—		[71.4] (4)
N-substituted cyclic imide	—((C=O)NR(C=O))$_c$—		[54.5] (5)
Cyclic ketone	—(C=O)$_c$—	48.0 (12)	[31.0] (9)
Cyclic secondary sp^3 nitrogen	—NH$_c$—	47.8 (14)	17.8 (13)
Cyclic tertiary sp^3 nitrogen	—N$_c$<	[24.4] (11)	2.1 (12)
Cyclic tertiary sp^2 nitrogen	=N$_c$—	20.7 (21)	13.2 (21)
Cyclic secondary amide	—((C=O)NH)$_c$—	[91.3] (1)	45.9 (42)
Cyclic tertiary amide	—((C=O)N<)$_c$	[96.3] (1)	42.4 (31)
Cyclic sulfide	—S$_c$—	33.2 (13)	21.7 (17)
Cyclic sulfone	>(S → O)$_{2c}$		[36.5] (4)
Cyclic sulfoxide	>(S → O)$_c$		[27.5] (1)
Cyclic quaternary silicon	>Si$_c$<	[26.9] (8)	[37] (10)
Cyclic thiocarbamate	—(NH(C=S)O)$_c$—		[64.6] (3)
Cyclic urethane	—(NH(C=O)O)$_c$—		[55.1] (6)
Cyclic urea	—(NH(C=O)NH)$_c$—		[61.2] (1)

[a]Values in brackets are considered tentative values; values in parenthesis are the number of values used to establish the group value. Groups not specified refer to carbon or other heavy atoms.
[b]An internal quaternary aromatic carbon refers to internal carbon atoms as found in graphite [8.1 J K^{-1} mol^{-1}], acenapthylene or coronene

complexity. Some of the earlier methods have been previously described. [1990LYM/REE, 1987CHI, 1966REI/SHE] Most recently, group additivity methods have frequently been used to evaluate values of Cp_{298K}(cr), Cp_{298K}(l), and indirectly, Cp_{298K}(g), using Eq. (5). This work updates a previously reported method using group additivity methods to estimate the heat capacities of both liquids and solids. [2010ACR/CHI] The intention of the update is to take advantage of recent data to both bolster the statistics of many of the existing group values and to provide some additional new values. This work has taken advantage of an earlier compendium by Domalski and Hearing, [1996DOM/HEA] the exhaustive two volume compendium reported Zabransky *et al.* [1996ZAB/RUZ] and two additional supplements published subsequently [2001ZAB/RUZ, 2010ZAB/KOL] together with some recent literature results. Despite the influx of new data, some groups still have tentative values assigned to them. The reader should also be aware of a more sophisticated group additivity method that has also been reported to estimate liquid heat capacities [2004ZAB/RUZ]. These authors compare their results at $T = 298.15$ K to those evaluated by this method and note that the percent deviations obtained using their group contributions are generally somewhat less than those obtained by this group method. Their group contributions are represented by second order polynomials and their estimations are combined with some additional structural corrections. The additional complexity of the Zabransky and Ruzicka group method has the specific advantage of providing liquid heat capacities as a function of temperature. The major advantages of the group method described below are its relative simplicity and capability to provide both liquid and solid heat capacities at $T = 298.15$ K within reasonable error limits and the potential of also providing gas phase heat capacities as illustrated below.

2.2. Group values for estimating liquid and solid heat capacities at $T = 298.15$ K

The group additivity method and the group values used to evaluate heat capacities are summarized in Table 1. Groups defined in column 1 of the table are identified on the basis of the substitution pattern and hybridization. Primary, secondary, ... groups are defined by the number of hydrogens on carbon, 3, 2, ... The second column provides a structural basis for the group in question. Group values are assigned in column 3. Values in brackets refer to tentative assignments while the numbers in parenthesis refer to the number of compounds used in the assignment of the group value. Tentative assignments are characterized by less than ten experimental measurements. A blank entry indicates the lack of any experimental data. In a few cases some group values are based on a single entry. Group values for the hydrocarbon portion of the molecule are for the most part unchanged from previous versions. Exceptions include changes in two liquid and four solid group values due primarily to the inclusion of additional data. Values for the functional groups are changed but most changes are relatively small. For consistency and ease of identification, some group values previously combined have been defined separately. For example, a cyclic tertiary sp^2 hybridized nitrogen in imidazoline and also previously used for nitrogen in aromatic heterocycles is identified separately even though the value is the same for both groups.

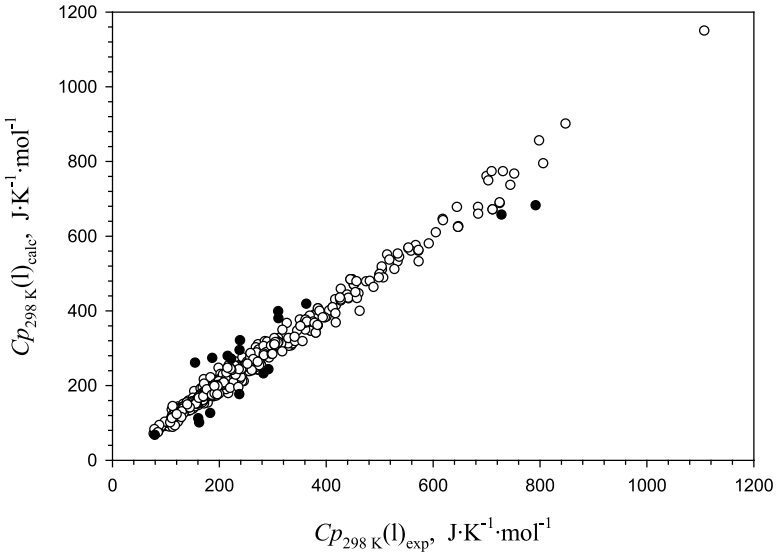


FIG. 1. A comparison of experimental and calculated liquid heat capacities at $T = 298.15$ K. The solid circles represent data that were not used in evaluating group values nor are they included in the equation of the line which is given by $Cp_{298K}(l)_{calc} = (1.003 \pm 0.004) \cdot Cp_{298K}(l)_{exp} - (4.42 \pm 1.19)$; $r^2 = 0.9878$.

2.3. Statistics in evaluation of group values

Values for most hydrocarbon groups were retained from previous work and were not evaluated in this update. A total of 709 liquids and 556 solid heat capacities, mostly substituted hydrocarbons were collected from the compendia and the current literature as noted above. A total of 691 entries were used to evaluate group values for liquids and 520 were used to evaluate the group values for solids reported in Table 1. Not included in this count are both liquid and solid hydrocarbons previously used to evaluate values that have remained unchanged. Heat capacities ranged from (73 to 730) and (79 to 1184) J K^{-1} mol^{-1} for liquids and solids, respectively. Group values were evaluated by minimizing R in the following function for each functional group:

$$R = \sum_{1}^{n} \left(\frac{Cp_{exp} - Cp_{calc}}{Cp_{exp}} \right)^2. \quad (7)$$

Once a functional group was evaluated it was used as a known in substances containing multiple functionalities. In most cases it was necessary to reiterate the minimization. A total of 19 liquid and 36 solid experimental values were rejected. Compounds rejected were selected on the basis of the difference between estimated and calculated value when the fractional difference either exceeded 25% of the experimental value or was larger than 50 J K^{-1} mol^{-1}. The value of 50 J K^{-1} mol^{-1} was selected as approximately three standard deviations of the uncertainty associated with previous correlations. The larger number of solids rejected is likely due to the fact that some solids either form plastic crystals, liquid crystals, or are not totally crystalline. These materials frequently exhibit larger heat capacities than conventional solids [2006ACR/CHI], [2013GOB/RAT]. Consistent with this interpretation is the finding that a total of 28 of the 39 experimental values rejected were larger than the calculated value while approximately half of the 18 rejected liquids (8/18) exceeded the calculated value. The standard deviation ($\pm 1\ \sigma$) associated with estimations for 681 liquids was ± 14.4 J K^{-1} mol^{-1} and ± 17.0 J K^{-1} mol^{-1} for 524 solids. The absolute average fractional error $[|(Cp_{exp} - Cp_{calc})|/Cp_{exp}]$ for liquids was 0.045 and 0.053 for solids. Figures 1 and 2 compare experimental and estimated heat capacities for both the liquid and solid compounds included in the estimations. The solid circles in the figures identify values of the compounds not used in evaluating group values. These values were also not included in generating the statistics.

3. Applications

Sections 3.1 and 3.2 deal with the application of the group values evaluated to estimate values of Cp_{298K}(cr), Cp_{298K}(l), and Cp_{298K}(g).

3.1. Estimation of condensed phase heat capacities

Figure 3 illustrates the structure of three compounds in which the groups in Table 1 are used to evaluate their heat capacity; the substances include simvastatin, used to decrease elevated lipid levels in blood, uridine, one of the five standard nucleosides, and risperidone, an antipsychotic medication. Estimations of these three solids are detailed below. Table 2 is included to provide some additional examples of some complex substances that can be addressed by this method. The table includes estimations of L-Tryptophan, 1,3-dimethylbarbituric acid, inosine, and β-ionone. L-Tryptophan is included to illustrate the applicability of using these group values in estimating amino acids despite the fact that they exist as dipolar ions. 1,3-dimethylbarbituric acid and inosine illustrate further examples of estimations in which the available functional groups can be used to evaluate their heat capacity. All but β-ionone are crystalline materials. The estimation of β-ionone represents an estimation of a liquid.

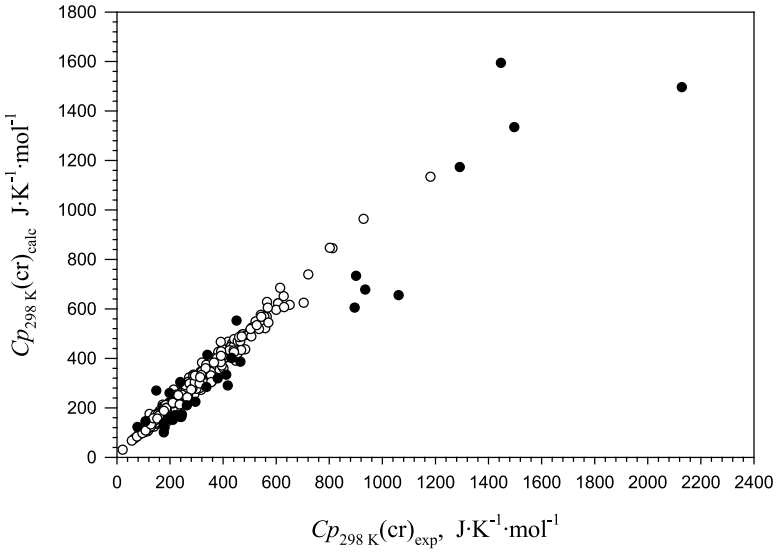
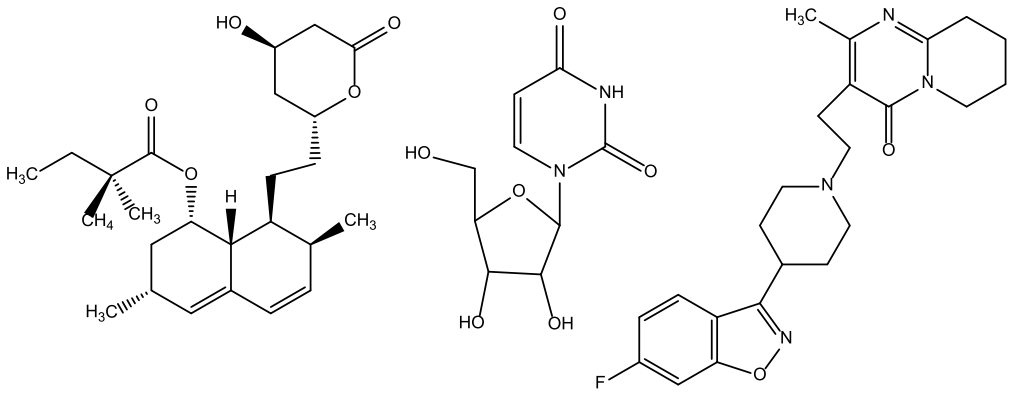


FIG. 2. A comparison of experimental and calculated solid heat capacities at $T = 298.15$ K. The solid circles represent data that were not used in evaluating group values nor are they included in the equation of the line which is given by $Cp_{298K}(cr)_{calc} = (0.986 \pm 0.006) \cdot Cp_{298K}(cr)_{exp} + (2.09 \pm 1.78)$; $r^2 = 0.9794$.



1 **2** **3**

FIG. 3. Structures of simvastatin **1**, uridine **2**, and risperidone **3**.

Following the detailed description of the three compounds in Figure 3, estimation of the compounds in Table 2 should follow.

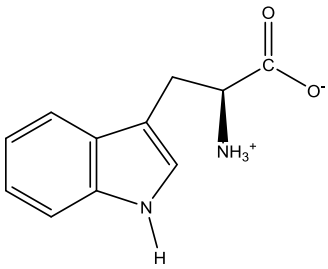
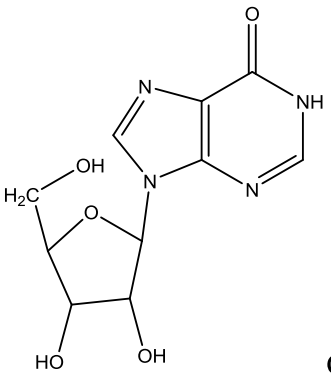
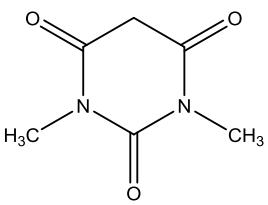
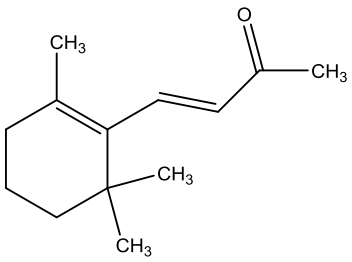
Simvastatin can be estimated by reducing the structure to the number and types of groups in the molecule. Identifying groups by beginning at the top of Table 1 and working downwards, the carbon component of simvastatin consists of 5 [CH_3—], 3 [—CH_2—], 1 [>C<], 3 [—C_cH_2—], 7 [>C_cH—], 3 [=C_cH—], 1[=C_c<]. The three functional groups complete the estimation, 1 [—OH], 1 [—(C=O)O—], and 1 [—((C=O)O)$_c$—], for a total of 26 groups. As a check, adding the carbons, hydrogens, nitrogens, and oxygens reproduces the molecular formula of simvastatin, $C_{25}H_{38}O_5$. Adding the values associated with each of these groups results in an estimated value for Cp_{298K}(cr) of (585.2 ± 17) J K^{-1} mol^{-1} (lit. 576.5 ± 23.1 J K^{-1} mol^{-1}. [2013SIM/BER]) Heat capacity differences due to stereochemistry are frequently small. The reader should note that stereochemical considerations and positional isomers on rings are not addressed in this approach.

A similar estimation for uridine, molecular formula $C_9H_{12}N_2O_6$, results in the following for $Cp_{298\,K}$(cr): 1[—CH_2—], 4 [>C_cH—], 2 [=C_cH—], 3 [—OH], 1 [—O_c—], [—((C=O)NH)$_c$—], and [—((C=O)N_c)<]. Adding the C, H, N, and O of these groups reproduces the correct molecular formula. Adding the values associated with each of these groups results in a value for Cp_{298K}(cr) of (278.9 ± 17) J K^{-1} mol^{-1} (lit. 292.3 [2008SZT]).

The molecular formula of risperidone is $C_{23}H_{27}FN_4O_2$. The groups include 1 [CH_3—], 2 [—CH_2—], 3 [=C_aH—], 3 [=C_aR—], 8 [—C_cH_2—], 1 [>C_cH—], 4 [=C_c<], 1 [—F], 1 [—O_c—], 1 [—N_c<], 2 [= N_c—], 1 [—((C=O)N)$_c$<]. Addition of the appropriate atoms reproduces the molecular formula and application of the group values results in a total $Cp_{298\,K}$(cr) of (509.2 ± 17) J K^{-1} mol^{-1} (lit. 500 J K^{-1} mol^{-1} [2014MEA/SVA]).

Simvastatin, risperidone, and inosine were not included in the 550 solid heat capacities used in generating the group values. L-Tryptophan was one of the 48 entries used to evaluate the group value for primary amines, 1,3-dimethylbarbituric

TABLE 2. Estimation of L-tryptophan, inosine, 1,3-dimethylbarbituric acid and β-ionone

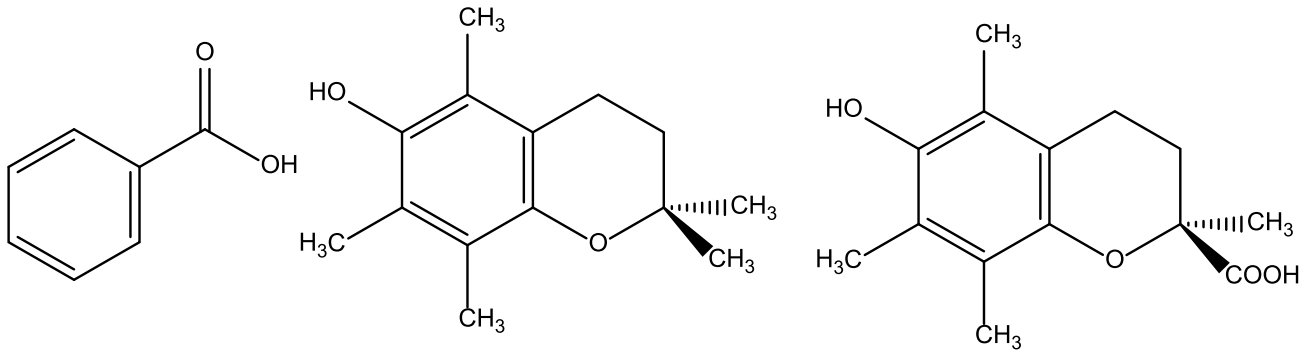
 $C_{11}H_{12}N_2O_2$	L-Tryptophan: $Cp_{298\ K}(cr)_{calc}$ = [—CH_2—] + [>CH—] + 4[=C_aH—] + 2[=C_aR—] + [=C_cH—] + [=C_c<] + [—NH_2] + [—(C=O)OH] + [—N_cH—] $Cp_{298\ K}(cr)_{calc}$ = (240.1 ± 17) J K^{-1} mol^{-1} (lit. 238.1 J K^{-1} mol^{-1} [1996DOM/HEA])
 $C_{12}H_{12}N_4O_5$	Inosine: $Cp_{298\ K}(cr)_{calc}$ = [—CH_2—] + 4[>C_cH—] + 2[=C_cH—] + 2[=C_c<] + 3[—OH] + [—O_c—] + [—N_c<] + 2[=N_c—] + (—(C=O)NH—)$_c$ $Cp_{298\ K}(cr)_{calc}$ = (277.5 ± 17) J K^{-1} mol^{-1} (lit. 283.1 J K^{-1} mol^{-1} [2005BOE/HOP])
	1,3-Dimethylbarbituric acid $Cp_{298\ K}(cr)_{calc}$ = 2[[CH_3—] + [—C_cH_2—] + [—((C=O)N<)$_c$] + [—((C—O)NR(C=O))$_c$—] $Cp_{298\ K}(cr)_{calc}$ = (194.7 ± 17) J K^{-1} mol^{-1} (lit. 188.5 J K^{-1} mol^{-1} [2011TEM/ROU])
 $C_{13}H_{20}O$	β-Ionone: $Cp_{298\ K}(l)_{calc}$ = 4[CH_3—] + 2[=CH—] + 3[—C_cH_2—] + [>C_c<] + +2[=C_c<] + [—(C=O)—] $Cp_{298\ K}(l)_{calc}$ = (381.3 ± 14.4) J K^{-1} mol^{-1} (lit. 377 J K^{-1} mol^{-1} [2005BOE/HOP])

acid was one of the 38 compounds used to evaluate the group value for cyclic tertiary amides and β-ionone was one of the twelve entries used to evaluate the group value for liquid cyclic ketones.

3.2. Estimation of gas phase heat capacities

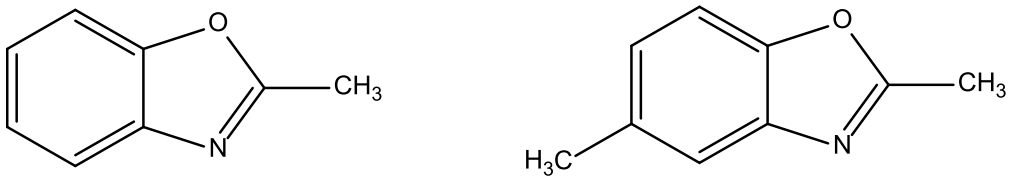
As noted above, Eq. (5) has been used to estimate the heat capacity of the corresponding gas phase. Figure 4 illustrates the structures of benzoic acid, 2,2,5,7,8-pentamethylchroman-6-ol, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid. The heat capacity of gaseous benzoic acid has recently been reported [2010SAN/ROC]. A theoretical value of $Cp_{298K}(g)$ = 126 J K^{-1} mol^{-1} was calculated and compared to a value of 125.1 J K^{-1} mol^{-1} obtained spectroscopically [1996STE/REV]. The heat capacity of crystalline benzoic acid can be estimated as 5 [=C_aH—], 1 [=C_a<], and [—(C=O)OH]. Addition of the appropriate group values results in a value, $Cp_{298K}(cr)$ = (147.3 ± 17; lit.146.8) J K^{-1} mol^{-1} [1996DOM/HEA]. Benzoic acid was one of the 84 entries used to evaluate the group value for a carboxylic acid. Applying Eq. (5) results in a gas phase heat capacity of (124.5 ± 17) J K^{-1} mol^{-1} in very good agreement with the literature value,

$$Cp_{298K}(g)\ \text{(benzoic acid)} = 0.85\cdot[147.3] - 0.75 = (124.5 \pm 17)\ \text{J K}^{-1}\ \text{mol}^{-1}$$



4 5 6

FIG. 4. Structures of benzoic acid (4), 2,2,5,7,8-pentamethylchroman-6-ol (5) and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid (6).



7 8

FIG. 5. Structures of 2-methylbenzoxazole (7) and 2,5-dimethylbenzoxazole (8).

Applying the appropriate group values to estimate the heat capacity of 2,2,5,7,8-pentamethylchroman-6-ol (5*36.6 + 6*8.5 + 2*24.6 + 6.1 + 23.2 + 10.3) results in an estimation of Cp_{298K}(cr) = (322.8 ± 17) J K^{-1} mol^{-1} [lit. 315.3 ± 9.6 J K^{-1} mol^{-1} [2014BER/SIM]]. Similarly for 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid, replacing the value of one methyl group with a carboxylic acid group results in Cp_{298K}(cr) = (337.5 ± 17) J K^{-1} mol^{-1} [lit. (332 ± 9.4) J K^{-1} mol^{-1} [2014BER/SIM]]. Neither of these two materials was included in the database. Applying Eq. (5) to the two estimated $Cp_{298\,K}$(cr) values results in gas phase heat capacities of (273.5 ± 17) J K^{-1} mol^{-1} for the former and (286.1 ± 17)J K^{-1} mol^{-1} for the latter compound. These values compare to gas phase values of (293.9 ± 20.6) J K^{-1} mol^{-1} and (311 ± 21.8) J K^{-1} mol^{-1}, respectively, calculated by statistical mechanics based on structural parameters and vibrational frequencies obtained at the B3LYP/6-31+G(d,p) level of theory. The two sets of results appear to agree within their levels of uncertainty.

Figure 5 illustrates the structures of 2-methylbenzoxazole and 2,5-dimethylbenzoxazole. Liquid heat capacities of (217.8 ± 14.4) J K^{-1} mol^{-1} and (244.4 ± 14.4) J K^{-1} mol^{-1} are estimated for these two materials. Application of Eq. (6) suggests Cp_{298K}(g) values of (150.6 ± 14.4) J K^{-1} mol^{-1} and (171.6 ± 14.4) J K^{-1} mol^{-1}, respectively. Gas phase heat capacities derived from statistical thermodynamics using the vibrational frequencies calculated at the B3LYP/6-31G(d) level of theory predict values of (138.3 and 164.3) J K^{-1} mol^{-1}, respectively, [2013SIL/CIM] in reasonable accord with the estimated values.

4. The phase change enthalpy compendium

The phase change enthalpy data reported in this compendium have been reported over the time period of 1880–2015 with a few references from 2016. The data are a combination of the compendium published in 2010 together with results obtained from the literature up to 2016. Phase change enthalpies have been measured for many years and numerous techniques have been developed and used over this period of time. Both direct and indirect methods have been employed. Direct methods include calorimetric measurements and indirect methods usually include a direct or indirect measure of vapor pressure over a range of temperatures. Gas chromatographic techniques have also been developed which rely on established measurements. For many materials, a brief description of the method of measurement is provided by the acronyms defined in Table 3. Some entries may not have an acronym. In these cases either the method of measurement was not clearly evident, the information was not available from the source the information was retrieved (such as an abstract), or the method was not recorded at the time the article was referenced. A significant number of early measurements have been calculated from the Antoine Constants reported in the compilation by Stephenson and Malonowski. [1987STE/MAL] References to the original literature are not available for materials evaluated from this reference. In some cases the original reference has been identified independently by inference.

TABLE 3. List of acronyms and descriptions

A	Calculated from the vapor pressure data reported by the method of least squares
AC	Adiabatic calorimeter
B	Calculated from the difference of the enthalpies of sublimation at temperature T and fusion at the melting point.
BG	Bourdon gauge
BP	Boiling point temperature at different pressures
C	Calorimetric determination
CATH	Cathetometer
CC	Conduction calorimeter
CCM	Cooling curve method
CE	Critical evaluated value
CGC	Correlation-gas chromatography
CGC-DSC	Combined correlation gas chromatography-differential scanning calorimetry
CR	Cryoscopy
CRT	Chromatographic retention time
CVC	Calvet calorimeter
DBM	Dibutyl phthalate manometer
DM	Diaphram manometer
DFM	Differential manometer
DP-LPD	Dew point low pressure distillation method
DSC	Differential scanning calorimeter
DTA	Differential thermal analysis
E	Estimated value
EM	Electronic manometer
EST	Estimated value
F	Fluorescence
FPM	freezing point method
FTIR	Fourier transform infrared spectroscopy
GC	Gas chromatography
GC-RT	Gas chromatography retention time
GCC	Gas chromatography-calorimetry
GS	Gas saturation, transpiration
GSM	Glass spring manometer
HG	Heise gauge
HBG	Heise-Bourdon gauge
HFC	Heat flux calorimetry
HSA	Head space analysis
I	Isoteniscope
IPM	Inclined piston manometry
IR	Infrared spectroscopy
KG	Knudsen gauge
LE	Langmuir evaporation
MDSC	Modulated differential scanning calorimetry
ME	Mass effusion-Knudsen effusion
MEM	Modified entrainment method
MG	McLeod gauge
MM	Mercury manometer
MS	Mass spectrometry
OM	Oil manometer
PG	Pressure gauge
QCM	Quartz crystal microbalance
QF	Quartz fiber
QR	Quartz resonator
RC	Radiation calorimeter
RG	Rodebush gauge
RS	Recirculating still
S-F	Sublimation-fusion
S-V	Sublimation-vaporization
SC	Solution calorimetry
SG	Spoon gauge
SRFG	Spinning rotor friction gauge
Static	Static method
STG	Strain gauge
T	Tensiometer
TCC	Tin Calvet calorimeter
TCM	Thermal conductivity manometer
TE	Torsion effusion
TGA	Thermal gravimetric analysis
TG-TS	Thermogravimetric transpiration method
THBC	Triple heat bridge calorimeter
TPD	Temperature programmed desorption
TPTD	Temperature programmed thermal desorption
TSGC	Temperature scanning gas chromatography
U	Unreliable
UV	Ultraviolet spectroscopy
UV/VIS	Ultraviolet-visible spectroscopy
VS	Visible spectroscopy
V + F	vaporization + fusion
VG	Viscocity gauge
VP	Vapor pressure as a function of temperature
ZG	Zimmerli gauge

Organic compounds provided by the following tables are arranged according to the Hill system. The molecular formula is provided in the first column of the first row of each individual material. This is usually followed by the Chemical Abstracts reference number in the second column and the chemical name. The chemical name is usually the name provided by the authors of the article. Occasionally this may have resulted in redundant entries for some complex materials. The remaining information in subsequent columns includes the phase transition (column 2), the temperature or temperature range if any associated with the transition (column 3), the enthalpy associated with the transition (column 4), the mean temperature associated with the transition if measured over a temperature range (column 5), the acronym associated with the method of measurement (column 6), and reference to the source of information (column 7), usually to the original work. If an entry is not provided in one of these columns, it is likely that the information was not available in the source consulted. For liquids, the vaporization enthalpy (V) in kJ mol^{-1} follows the name in subsequent rows. For solids, depending on the nature of the material, the order of entry includes any solid–solid transitions available (TRS), followed in subsequent rows by each available solid to liquid transition (FUS), the sublimation enthalpy or enthalpies available (SUB), and the vaporization enthalpy (ies) if available. Some enthalpy values are cited without an accompanying reference on the same line. In these cases the reference cited directly below should be consulted since multiple enthalpy values may have been taken from the same source, particularly for compounds with multiple solid–solid phase transitions. A brief note summarizing some peculiarity in the data is also provided for some compounds, particularly if the value reported appears to be unreliable, U (e.g., "U 66 ± 22.1").

The thermochemical data are arranged by carbon number. Table 4 contains thermochemical data for all compounds containing a single carbon atom that has been located. Table 5 continues with all compounds containing two carbons (C_2), Table 6, with three carbons (C_3), and so on. Tables 7-13 include compounds containing C_4 through C_{10}.

TABLE 4. Phase change enthalpies of C_1 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$CBrClF_2$	[353-59-3]	bromochlorodifluoromethane				
	V	(268–324)	23.0	283	A	[1987STE/MAL]
	V	(194–287)	23.1	272	A	[1987STE/MAL]
	V	(321–403)	22.4	336	A	[1987STE/MAL]
	V	(403–427)	23.1	415	A	[1987STE/MAL]
	V	(178–283)	26.0	193		[1979KUD/KUD]
	V	(178–283)	18.7	268		[1960GLE, 1984BOU/FRI]
$CBrCl_3$	[75-62-7]	bromotrichloromethane				
	TRS		4.58	238.1		
	TRS		0.52	260.3		
	FUS		2.03	267.1	DSC	[2004BAR/PAR]
	TRS	(6–301)	4.62	238.2		
	TRS	(6–301)	0.53	259.4		
	FUS	(6–301)	2.03	267.9	AC	[1995OHT/YAM]
	FUS		2.54	267.5		[1991ACR, 1983WEA]
	V	(273–387)	35.0	288		[1979KUD/KUD]
	V	(294–443)	36.1	309	A	[1970DYK, 1987STE/MAL]
$CBrF_3$	[75-63-8]	bromotrifluoromethane				
	V	(276–340)	17.8	291	A	[1987STE/MAL]
	V	(160–267)	17.7	252	A	[1987STE/MAL]
	V	(165–216)	19.1	180		[1979KUD/KUD]
CBrFO	[753-56-0]	carbonic bromide fluoride				
	V	(197–256)	22.9	241	A	[1987STE/MAL]
CBrN	[506-68-3]	cyanogen bromide				
	SUB	(273–308)	45.2 ± 4.2		MM	[1954LOR/WOO, 1970COX/PIL]
	SUB	(256–308)	47.0		GS	[1920BAX/BEZ]
	SUB	(273–313)	45.9	288		[1954LOR/WOO, 1984BOU/FRI]
$CBrN_3O_6$	[560-95-2]	bromotrinitromethane				
	V	(318–335)	47.8	326	A, I	[1987STE/MAL, 1970CAR/ZIM]
CBr_2Cl_2	[594-18-3]	dibromodichloromethane				
	TRS	(6–305)	5.43	258.8		
	FUS	(6–305)	2.31	294.4	AC	[1995OHT/YAM]
CBr_2F_2	[75-61-6]	dibromodifluoromethane				
	V	(247–297)	26.1	282	A	[1987STE/MAL, 1959MCD/SHR, 1979KUD/KUD, 1970DYK]
	V	(156–218)	18.6	203		[1948BAN/EME]
CBr_3F	[353-54-8]	tribromofluoromethane				
	V	(315–380)	34.4	330	A	[1987STE/MAL, 1948BAN/EME]
CBr_4	[558-13-4]	carbon tetrabromide				
	TRS		6.51	319.2		
	FUS		3.56	366.2	DSC	[2008LEV/BAR]
	FUS		3.35	365.0	DSC	[1984KAU/RUT]
[Note: Numerical value was calculated from a fourth-order polynomial expression given in [1984KAU/RUT] that expressed the enthalpy of fusion as a function of composition for binary mixtures of carbon tetrachloride and hexachloroethane.]						
	TRS	(298–343)	5.85	320.0		[1984TSE/YAO]
	TRS		6.6	320.0		
	FUS		3.5	367.0	DSC	[1970SIL/RUD]
	TRS		8.88	320.2		
	FUS		2.92	345.2		[1967TSE/GOD]
	TRS		6.67	320.0		[1956MAR/STA]
	TRS		5.94	320.0		
	FUS		3.95	363.2		[1996DOM/HEA, 1939FRE/HIL]
	SUB (mono)		54.5 ± 0.7	298	C	[1984BIC/MIN]
	SUB (mono)	(295–319)	54.4 ± 1.3	307	BG	[1959BRA/DRU]
	SUB (cubic)	(321–329)	49.4 ± 1.3	325	BG	[1959BRA/DRU]
	SUB (cubic)		48.3	320		[1955HAR/SWI]
	V	(375–463)	48.3	390		[1979KUD/KUD]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(369–463)	48.2	384	A	[1987STE/MAL, 1947STU]
CClFO	[353-49-1]	carbonic chloride fluoride				
	V	(165–211)	22.7	196	A	[1987STE/MAL, 1964FIS/BUC]
	V	(157–227)	22.0	192		[1948EME/WOO]
$CClF_2NO$	[16847-30-6]	difluorocarbamoyl chloride				
	V	(189–234)	25.8	219	A	[1987STE/MAL, 1967FRA/SHR]
$CClF_3$	[75-72-9]	chlorotrifluoromethane				
	V	(268–302)	16.0	283	A	[1987STE/MAL]
	V	(133–185)	17.0	170	A	[1987STE/MAL]
	V	(184–246)	15.7	231	A	[1987STE/MAL]
	V	(243–271)	15.7	257	A	[1987STE/MAL]
	V	(145–192)	16.8	177	A	[1987STE/MAL, 1979KUD/KUD]
	V	(124–191)	17.1	177	A	[1947STU]
	V	(134–298)	NA			[1941RIE]
	V	(161–192)	16.4	176		[1933THO/BUR]
$CClF_3O$	[22082-78-6]	trifluoromethyl hypochlorite				
	V	(160–226)	21.2	211	A	[1987STE/MAL, 1969SCH/MAY]
	V	(142–219)	19.6	204	A	[1987STE/MAL, 1969GOU/AND]
$CClF_3O_2$	[32755-26-3]	peroxyhypochlorous acid, trifluoromethyl ester				
	V	(163–296)	23.4	281	A	[1987STE/MAL, 1971RAT/HAR]
$CClF_3O_3S$	[6069-31-4]	fluorosulfuric acid, chlorodifluoromethyl ester				
	V	(227–309)	32.1	243		[1999DYK/SVO]
	V	(228–310)	34.6	243	A	[1987STE/MAL, 1966DES/CAD]
$CClF_3S$	[421-17-0]	trifluoromethanesulfenyl chloride				
	V	(247–272)	24.5	260	A	[1987STE/MAL, 1999DYK/SVO, 1953HAS/KID]
$CClF_4N$	[13880-71-2]	difluoro(difluorochloromethyl)amine				
	V	(209–277)	26.6	262	A	[1987STE/MAL]
$CClF_4NO_2S$	[19419-95-5]	chloro(trifluoromethyl) sulfamoyl fluoride				
	V	(253–288)	28.8	273	A	[1987STE/MAL, 1999DYK/SVO, 1968ROE]
$CClF_4NO_{12}S_4$	[53684-03-0]	fluorosulfuric acid, bis[[(fluorosulfonyl)oxy]amino]chloromethylene ester				
	V		42.6	424		[1975KIR/LAS]
$CClF_7S$	[42179-04-4]	chlorotetrafluoro (trifluoromethyl) sulfur				
	V	(293–353)	25.9	323		[1999DYK/SVO, 1973ABE/SHR2]
$CClF_7O_3S_2$	[81439-33-0]	*cis*-chlorotetrafluoro(trifluoromethanesulfano)sulfur				
	V		39.3			[1982JOH/KAT]
CClN	[506-77-4]	cyanogen chloride				
	FUS		11.38	266.3		[1947DOU/WIN]
	SUB	(196–259)	35.7	228	A	[1947STU, 1987STE/MAL]
	V	(196–286)	32.2	271		[1947STU]
	V		26.8			[1947DOU/WIN]
CCl_2FNO	[32751-02-3]	dichlorocarbamic fluoride				
	V		40.7			[1972DEM/SHR]
CCl_2F_2	[75-71-8]	dichlorodifluoromethane				
	V	(282–345)	20.0	297	A	[1987STE/MAL]
	V	(173–244)	21.4	229	A	[1987STE/MAL]
	V	(173–240)	21.6	225	A	[1987STE/MAL]
	V	(236–285)	20.4	270	A	[1987STE/MAL]
	V	(341–385)	20.5	356	A	[1987STE/MAL]
	V	(172–279)	22.9	187		[1979KUD/KUD]
	V	(154–243)	21.5	228		[1947STU]
	V		20.1	243		[1931BUF/FLE]
CCl_2F_3N	[24618-60-8]	*N,N*-difluoro-1,1-dichloro-1-fluoromethylamine				
	V	(209–277)	27.0	262	I	[1970ZAB/SHR]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
CCl_2F_3N	[13880-73-4]	*N,N*-dichloro-1,1,1-trifluoromethylamine				
	V	(226–291)	25.8	276	A	[1987STE/MAL]
	V		25.5			[1967HYN/BIS]
CCl_2F_3N	[33757-11-8]	*N*,1-dichloro-*N*,1,1-trifluoromethylamine				
	V	(226–291)	26.4	258		[1971SWI/ZAB]
CCl_2F_3NS	[10564-47-3]	(trifluoromethyl)imidosulfurous dichloride				
	V	(284–344)	35.4	298		[1999DYK/SVO, 1966LUS]
	V	(283–362)	33.7	298	A	[1987STE/MAL]
CCl_2F_3P	[421-58-9]	(trifluoromethyl)dichlorophosphine				
	V	(208–276)	29.2	260		[1964PET/BUR]
CCl_2F_3PS	[18799-78-5]	dichloro(trifluoromethylthio) phosphine				
	V	(293–363)	31.7	308	A	[1987STE/MAL, 1999DYK/SVO, 1960EME/PUG]
CCl_2O	[75-44-5]	phosgene				
	FUS (I)		5.74	145.4		
	FUS (II)		5.59	142.1		
	FUS (III)		4.73	139.2		[1960GIA/OTT]
	FUS		5.73	145.3		[1948GIA/JON]
	V	(280–341)	24.5	295	A	[1987STE/MAL]
	V	(240–281)	25.7	266	A	[1987STE/MAL]
	V	(338–410)	24.5	353	A	[1987STE/MAL]
	V	(406–455)	24.4	421	A	[1987STE/MAL]
	V	(253–293)	25.2	273		[1970FET/EFR]
	V	(215–248)	27.0	233		[1948GIA/JON]
	V		24.4	281	C	[1948GIA/JON]
	V	(180–273)	25.8	258		[1947STU]
	V		23.0	277		[1920ATK/HEY]
CCl_3F	[75-69-4]	trichlorofluoromethane				
	FUS		6.9	162.7		[1996DOM/HEA, 1941OSB/GAR]
	V	(213–301)	28.5	228	A	[1987STE/MAL]
	V	(213–249)	28.2	234	A	[1987STE/MAL]
	V	(295–363)	25.6	310	A	[1987STE/MAL]
	V	(357–429)	24.7	372	A	[1987STE/MAL]
	V	(424–468)	25.1	439	A	[1987STE/MAL]
	V	(237–293)	27.3	251		[1979KUD/KUD]
	V	(237–293)	27.1	276		[1941OSB/GAR]
	V		25.2	290	C	[1941OSB/GAR]
	V	(244–334)	26.4	259		[1940BEN/MCH]
CCl_3F_2N	[24708-52-9]	*N,N*-difluoro-1,1,1-trichloromethylamine				
	V	(252–325)	33.4	267	I	[1987STE/MAL, 1970ZAB/SHR]
CCl_3F_2N	[33757-10-7]	*N*,1,1-trichloro-*N*,1-difluoromethylamine				
	V	(273–319)	27.8	296		[1971SWI/ZAB]
CCl_3F_2P	[1112-03-4]	difluoro(trichloromethyl) phosphine				
	SUB	(264–283)	36.8	274	A, T	[1987STE/MAL, 1964NIX]
	V	(289–313)	32.5	301	A, T	[1987STE/MAL, 1964NIX]
CCl_3F_4P	[1184-80-1]	trichloromethyl tetrafluorophosphorane				
	V	(257–300)	10.4			[1965NIX]
CCl_3NO	[3711-49-7]	trichloronitrosomethane				
	V	(253–333)	32.4	268	A	[1987STE/MAL, 1968BRI/PRI]
CCl_3NO_2	[76-06-2]	trichloronitromethane (chloropicrin)				
	V	(273–333)	39.3	288	A	[1987STE/MAL, 1948RED/CHA5]
	V	(301–449)	38.5	316	A	[1987STE/MAL, 1970DYK]
	V	(247–385)	40.0	262		[1947STU]
	V	(299–328)	39.3			[1947GOU/HOL]
	V	(253–303)	39.2	283		[1920BAX/BEZ]
CCl_4	[56-23-5]	carbon tetrachloride				

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	TRS		4.68	225.9		
	FUS		2.52	250.3	DSC	[2004BAR/PAR, 1999PAR/BAR]
	TRS		4.63	225.7		
	FUS		2.56	250.3	AC	[1996DOM/HEA, 1976MOR/RIC]
	TRS		4.63	225.3		
	FUS		2.54	250.3		[1974VAN/OON]
	FUS		2.56	250.3	AC	[1972ARE/VAN]
	TRS		4.48	226.6		
	FUS		2.49	247.8	DSC	[1970SIL/RUD]
	TRS		4.59	225.8		
	FUS		2.52	250.2		[1949STA/GUP]
	FUS		2.46	250.3	AC	[1947AST/FIN]
	TRS		4.58	225.4		
	FUS	(17–300)	2.52	250.3		[1996DOM/HEA, 1944HIC/HOO]
	TRS		4.60	225.6		
	FUS		2.43	250.4		[1996DOM/HEA, 1937STU]
	TRS		4.52	225.5		
	FUS		2.41	250.3	C	[1934JOH/LON]
	TRS		4.60	224.6		
	FUS		2.69	249.0		[1996DOM/HEA, 1922LAT]
	SUB		43.3	226	B	[1963BON]
	SUB	(209–225)	38.8	217		[1960JON, 1948NIT/SEK]
	SUB	(227–248)	37.9			[1948NIT/SEK]
	V	(349–416)	30.4	364	A	[1987STE/MAL]
	V	(412–497)	29.2	427	A	[1987STE/MAL]
	V	(494–555)	30.6	509	A	[1987STE/MAL]
	V		32.4	298	C	[1980MAJ/SVA]
	V		31.7	313	C	[1980MAJ/SVA]
	V		30.9	328	C	[1980MAJ/SVA]
	V		30.1	343	C	[1980MAJ/SVA]
	V		29.4	358	C	[1980MAJ/SVA]
	V		32.5 ± 0.1	298	C	[1973KON]
	V	(262–349)	33.7	277	A, EB	[1987STE/MAL, 1972BOU/AIM]
	V		32.4 ± 0.1	298	C	[1966WAD2]
	V	(293–351)	32.3	308		[1959HIL/MCD]
	V	(313–338)	31.7	325		[1953BAR/BRO]
CCl_4O_2S	[2547-61-7]	trichloromethanesulfonyl chloride				
	TRS		7.1	227.4		
	FUS		7.46	418.5	DSC	[1994DOU/FUE]
CFIO	[1495-48-3]	carbonyl fluoride iodide				
	V	(230–292)	26.1	277	A	[1987STE/MAL]
CFN	[1495-50-7]	cyanogen fluoride				
	SUB	(147–191)	28.9	176	A, I	[1987STE/MAL, 1964FAW/LIP]
	SUB	(139–192)	24.4	166		[1947STU]
	SUB	(133–203)	29.3	168		[1931COS]
	V	(201–227)	22.4	214	A, I	[1987STE/MAL, 1964FAW/LIP, 1970DYK]
$CFNO_3S$	[1495-51-8]	sulfuryl fluoride isocyanate				
	V	(294–335)	36.5	309	A	[1987STE/MAL, 1999DYK/SVO]
$CFNO_6S_2$	[27931-74-4]	pyrosulfuryl fluoride isocyanate				
	V	(330–405)	40.9	345	A	[1987STE/MAL, 1999DYK/SVO, 1970NOF]
CFN_3O_6	[1840-42-2]	fluorotrinitromethane				
	V	(274–358)	34.2	289	A, T	[1987STE/MAL, 1966ZIM/ROB]
CF_2N_2	[7127-18-6]	difluorocyanamide				
	V	(179–198)	20.6	189	A	[1987STE/MAL, 1966MEY/FRA]
CF_2N_2OS	[19073-57-5]	cyanoimidosulfuryl fluoride				
	V	(262–354)	37.2	277	A	[1987STE/MAL, 1999DYK/SVO, 1967GLE/BIE3]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$CF_2N_2O_4$	[1185-11-1]	difluorodinitromethane				
	V	(283–310)	41.4	296	A	[1987STE/MAL, 1973PEP/LEB]
CF_2N_2S	[14453-41-9]	*N*-cyano-*S,S*-difluorosulfilimine				
	V	(271–320)	44.1	286	A	[1987STE/MAL, 1999DYK/SVO, 1967GLE/BIE2]
CF_2O	[353-50-4]	carbonyl fluoride				
	FUS	(12–188)	6.7	161.9	AC	[1968PAC/REN]
	SUB	(130–159)	23.2	145	A	[1987STE/MAL, 1968PAC/REN]
	V	(159–189)	20.0	174	A	[1987STE/MAL]
	V		16.1			[1934RUF/MIL]
CF_2O_4S	[7519-54-2]	fluoroformyl fluorosulfate				
	V	(250–296)	27.3	281	A	[1987STE/MAL, 1999DYK/SVO, 1966FOX/FRA]
CF_2S	[420-32-6]	thiocarbonyl fluoride				
	V	(133–211)	19.2	196	A	[1987STE/MAL, 1970DYK, 1962SUN/MEI]
	V	(178–211)	17.4	196	A	[1987STE/MAL, 1999DYK/SVO, 1962DOW]
CF_3I	[2314-97-8]	iodotrifluoromethane				
	V	(188–296)	22.5	281	A	[1987STE/MAL, 1970DYK, 1948BAN/EME]
CF_3NO	[2368-32-3]	(difluoroamino) carbonyl fluoride				
	V	(143–217)	21.6	202	A, MM	[1987STE/MAL, 1965FRA/SHR]
CF_3NO	[334-99-6]	trifluoronitrosomethane				
	V	(141–174)	17.1	159	A	[1987STE/MAL, 1953JAN/HAS]
	V		16.8			[1936RUF/GIE]
CF_3NOS	[3855-41-2]	*S,S*,-difluoro-*N*-(fluoroformyl)-sulfimine				
	V	(220–273)	37.3	246	A	[1987STE/MAL, 1999DYK/SVO, 1965CLI/KOB]
CF_3NOS	[24892-54-4]	trifluoromethyl thionitrite				
	V	(196–215)	25.8	205	T	[1969MAS]
CF_3NOS	[10564-49-5]	(*N*-sulfinyl)-trifluoromethylamine				
	V	(239–289)	27.0	274	A	[1987STE/MAL, 1999DYK/SVO, 1966LUS]
CF_3NO_2	[335-02-4]	trifluoronitromethane				
	V	(238–243)	21.6	240	A	[1987STE/MAL, 1953JAN/HAS]
	V		24.4			[1953BAN]
CF_3NO_4	[50311-48-3]	(trifluoromethyl) peroxynitrate				
	V	(193–247)	24.8	232	A	[1987STE/MAL, 1974HOH/DES]
$CF_3NO_6S_2$	[19252-48-3]	*N*-(fluoroformyl)-*N*,*O*-bis(fluorosulfonyl) hydroxylamine				
	V	(325–392)	36.3	340	A	[1987STE/MAL, 1999DYK/SVO, 1968NOF/SHR]
CF_4	[75-73-0]	carbon tetrafluoride				
	TRS		1.46	76.09		
	FUS	(4–100)	0.71	89.53		[1996DOM/HEA, 1969ENO/SHI]
	TRS		1.71	76.23		
	FUS	(12–145)	0.71	89.56		[1996DOM/HEA, 1969SMI/PAC]
	TRS		1.73	76.09		
	FUS		0.69	88.44		[1996DOM/HEA, 1958KOS/SAM]
	TRS		1.48	76.2		
	FUS		0.70	89.5		[1938EUC/SCH, 1969ENO/SHI]
	SUB (α)	(76–90)	14.7	83	A	[1987STE/MAL, 1970GEN/DUV]
	SUB (β)	(70–76)	16.8	73	A	[1987STE/MAL, 1970GEN/DUV]
	SUB	(86–89)	14.7	88		[1967SIM/KNO]
	SUB		17.0	76		[1963BON]
	SUB	(80–86)	14.0	83	A	[1933MEN/MOH]
	V	(195–227)	12.1	212	A	[1987STE/MAL]
	V	(89–163)	12.3	148	A	[1987STE/MAL]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(160–197)	11.9	182	A	[1987STE/MAL]
	V	(116–146)	12.4	131		[1969SMI/PAC]
	V	(93–146)	12.8	131		[1933MEN/MOH, 1987STE/MAL]
	V		12.3			[1933RUF/BRE]
CF_4N_2O	[815-10-1]	fluoro(trifluoromethyl) diimidoxide				
	V	(233–267)	27.7	252	A	[1987STE/MAL]
$CF_4N_2O_3S_2$	[25523-80-2]	carbonyl bis(imidosulfuryl fluoride)				
	V	(316–331)	41.3	323	A	[1987STE/MAL, 1999DYK/SVO, 1969GLE/MEW2]
CF_4O	[373-91-1]	hypofluorous acid trifluoromethyl ester				
	V	(153–194)	15.5	179	A	[1987STE/MAL, 1948KEL/CAD]
[Note: The table in [1948KEL/CAD] gives the temperatures in °C; however, all of the equations and graphs in the article suggest that the temperature should be in Kelvin. We have assumed that the tabulated temperatures are in Kelvin; the results closely correspond to the entry in [1987STE/MAL].]						
CF_4OS	[812-12-4]	trifluoromethyl sulfinyl fluoride				
	V	(204–271)	22.7	256	A, I	[1987STE/MAL, 1968RAT/SHR, 1970DYK, 1999DYK/SVO]
CF_4O_2	[34511-13-2]	hydroperoxyfluoric acid trifluoromethyl ester				
	V	(156–203)	18.7	188	A	[1987STE/MAL, 1972DES]
CF_4O_2S	[335-05-7]	trifluoromethane sulfonyl fluoride				
	V	(226–249)	23.4	237	A	[1987STE/MAL, 1999DYK/SVO, 1956GRA/HAS]
CF_4O_3S	[926-08-9]	trifluoromethyl fluorosulfonate				
	V	(194–269)	25.6	231		[1960VAN/CAD]
CF_4O_4S	[13990-10-8]	trifluoromethylperoxyfluorosulfonate				
	V	(233–286)	27.7	259		[1960VAN/CAD]
$CF_4O_5S_2$	[21595-44-8]	fluorosulfonic acid trifluoromethane sulfonic acid anhydride				
	V	(308–338)	32.9	323	A	[1987STE/MAL, 1999DYK/SVO, 1968NOF]
$CF_4O_6S_2$	[6123-47-3]	trifluoromethyl fluorodisulfate				
	V	(292–351)	34.4	321		[1960VAN/CAD]
CF_5N	[335-01-3]	pentafluoromethylamine				
	SUB	(128–141)	18.6	135		[1987STE/MAL, 1951COA/HAR]
	V	(151–198)	17.3	174		[1951COA/HAR]
CF_5NO	[4217-93-0]	pentafluoromethoxyamine				
	V	(167–210)	18.5	195	A	[1987STE/MAL, 1965SHR/DUN]
CF_5OPS	[52752-66-6]	phosphorothionic difluoride, *S*-trifluoromethyl ester				
	V	(293–353)	23.1	323		[1999DYK/SVO, 1974SPR/SHR]
	V		23.0			[1974SPR/SHR]
CF_5O_3P	[39125-42-3]	trifluoromethoxyphosphoryl difluoride				
	V	(225–264)	27.4	245		[1973BER/DES]
CF_5O_3P	[39125-42-3]	difluoroperoxyphosphoric acid trifluoromethyl ester				
	V	(241–280)	32.0	265	A	[1987STE/MAL, 1973BER/DES]
CF_5PS	[52752-65-5]	trifluoromethyl thiodifluorophosphine				
	V	(293–353)	22.3	323		[1999DYK/SVO, 1974SPR/SHR]
	V		24.3			[1974SPR/SHR]
$CF_6N_2O_2S_2$	[20094-83-1]	*N,N′*-(difluoromethylene) bisimidosulfuryl fluoride				
	V	(283–308)	36.0	295		[1968GLE/VON]
$CF_6N_2S_2$	[17686-45-2]	difluoromethane bis(*S*, *S*-difluorosulfilimine)				
	V	(230–313)	36.0	245	A	[1987STE/MAL, 1999DYK/SVO, 1967GLE/BIE2]
CF_8OS	[1873-23-0]	pentafluoro (trifluoromethoxy) sulfur				
	V	(217–262)	24.4	247	A	[1987STE/MAL, 1964DUN/CAD]
$CF_8O_3S_2$	[81439-27-2]	pentafluoro(trifluoromethylsulfonato)sulfur				
	V		26.8			[1982JOH/KAT]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
CF_8S	[373-80-8]	trifluoro(pentafluorothio)methane				
	V	(223–252)	20.2	253	I	[2001KUL/DES]
	V	(205–262)	23.8	247	A	[1987STE/MAL, 1999DYK/SVO, 1950SIL/CAD]
CF_9NOS	[1840-45-5]	tetrafluoro(difluoroamino)(trifluoromethoxy) sulfur				
	V	(257–298)	28.7	272	A	[1987STE/MAL, 1964DUN/CAD2]
$CF_{10}O_5S_2$	[60672-59-5]	[μ-(carbono)diperoxato]decafluorodisulfur				
	V		38.1			[1976HOP/DES]
CIN	[506-78-5]	cyanogen iodide				
	SUB	(337–426)	59.9	352	GSM	[1987STE/MAL, 1943KET/KRU]
	SUB	(298–414)	58.6	356	A	[1947STU]
	SUB	(337–426)	59.8 ± 0.4		GSM	[1943KET/KRU, 1970COX/PIL]
	SUB	(278–374)	58.3	326		[1933YOS/STO]
	V	(419–426)	40.0	423	A	[1987STE/MAL, 1943KET/KRU]
CN_4O_8	[509-14-8]	tetranitromethane				
	SUB	(255–286)	47.4	271		[1987STE/MAL, 1941SEK/NIT]
	V	(286–373)	43.1	301	A	[1987STE/MAL]
	V	(313–373)	42.9	328	A	[1987STE/MAL, 1984BOU/FRI, 1952EDW]
	V	(273–313)	46.6	288		[1987STE/MAL, 1984BOU/FRI, 1949NIC]
CO	[630-08-0]	carbon monoxide				
	SUB	(54–61)	7.6	58	A	[1987STE/MAL]
	SUB	(51–68)	8.1	60	A	[1947STU]
	SUB	(57–68)	7.9	62	A	[1931CRO/BIJ]
	V	(68–108)	6.0	93	A	[1987STE/MAL]
	V	(93–132)	6.2	112		[1952MIC/WAS]
	V	(69–83)	6.0	81		[1932CLA/GIA]
	V		6.0	81	C	[1932CLA/GIA]
COS	[463-58-1]	carbonyl sulfide				
	V	(161–284)	20.4	176		[1999DYK/SVO]
	V	(284–379)	18.3	299		[1999DYK/SVO]
	V	(140–224)	19.5	209	A	[1987STE/MAL]
	V		19.0 ± 0.1	214		[1939FRA/CLU]
	V	(162–224)	19.5	209		[1937KEM/GIA]
CO_2	[124-38-9]	carbon dioxide				
	FUS		7.94	215.6		[1928EUC/HAU]
	SUB	(198–216)	26.1	207	A	[1987STE/MAL]
	SUB	(194–216)	26.1	205		[1984FER/DEL]
	SUB	(70–102)	27.2 ± 0.4		LE	[1974BRY/CAZ]
	SUB	(179–198)	25.9	188		[1956AMB]
	SUB	(139–195)	26.3	167	A	[1947STU]
	SUB	(154–196)	25.2	195		[1937GIA/EGA]
	V	(273–304)	16.7	288	A	[1987STE/MAL]
	V	(216–273)	16.4	258	A	[1987STE/MAL]
	V	(216–243)	16.7	231		[1984FER/DEL]
	V	(267–303)	16.5	282		[1972BOU/AIM]
	V	(217–276)	16.6	247		[1950MIC/WAS2]
CS_2	[75-15-0]	carbon disulfide				
	FUS		4.39	161.1		[1996DOM/HEA, 1937BRO/MAN]
	V	(255–354)	28.7	270		[1999DYK/SVO]
	V	(354–552)	27.1	369		[1999DYK/SVO]
	V	(260–353)	28.5	275	A	[1987STE/MAL]
	V	(338–408)	27.4	353	A	[1987STE/MAL]
	V	(388–497)	27.0	403	A	[1987STE/MAL]
	V	(490–533)	28.7	505	A	[1987STE/MAL]
	V	(255–318)	28.7	270	EB	[1972BOU/AIM, 1987STE/MAL]
	V	(277–353)	28.1	292	EB	[1962WAD/SMI]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		28.1 ± 0.1	282	C	[1962WAD/SMI]
	V		27.5 ± 0.1	298	C	[1962WAD/SMI]
	V		26.7 ± 0.1	319	C	[1962WAD/SMI]
	V		27.7	298		[1961GOO/LAC]
	V	(303–358)	27.6	318		[1946THO]
$CHBrF_2$	[1511-62-2]	bromodifluoromethane				
	V	(194–259)	24.0	244	A	[1987STE/MAL]
	V	(194–288)	24.7	209		[1979KUD/KUD]
$CHBr_3$	[75-25-2]	tribromomethane				
	FUS		11.09	281.5		[1987KAF/DOR]
	V		46.1 ± 0.1	298	C	[1972LAY/WAD]
	V	(320–412)	42.3	335	EB	[1972BOU/AIM, 1979KUD/KUD]
	V	(303–373)	44.0	318		[1941KIR/SIT, 1984BOU/FRI]
$CHClF_2$	[75-45-6]	chlorodifluoromethane				
	TRS		0.07	59		
	FUS		4.12	115.7		[1996DOM/HEA, 1957NEI/WHI]
	V	(275–327)	20.0	290	A	[1987STE/MAL]
	V	(170–233)	21.3	218	A	[1987STE/MAL]
	V	(230–275)	20.4	260	A	[1987STE/MAL]
	V	(324–366)	20.1	339	A	[1987STE/MAL]
	V	(194–310)	21.8	209		[1979KUD/KUD]
	V	(229–236)	21.0	232		[1964KLE]
	V		20.2	232	C	[1957NEI/WHI]
$CHCl_2F$	[75-43-4]	dichlorofluoromethane				
	V	(225–282)	26.1	267	A	[1987STE/MAL]
	V	(279–344)	25.3	294	A	[1987STE/MAL]
	V	(341–399)	24.2	356	A	[1987STE/MAL]
	V	(397–450)	24.1	412	A	[1987STE/MAL]
	V	(229–236)	U20.9	233		[1964KLE]
	V	(181–282)	26.2	267		[1947STU]
	V	(244–317)	36.7	259		[1940BEN/MCH]
$CHCl_2FO_3S$	[42016-50-2]	fluorosulfuric acid, dichloromethyl ester				
	V	(275–293)	36.2	284	A	[1987STE/MAL, 1999DYK/SVO, 1974CAF/SIC]
$CHCl_3$	[67-66-3]	chloroform				
	FUS (α, microsample)		9.54	209.6		
	FUS (β, microsample)		8.9	200.0		[1979DUM]
	FUS		8.8	209.6		[1991ACR, 1972DUB/DEV]
	V	(306–427)	30.8	321		[1995CHE/WAN]
	V	(227–269)	31.8	254	A	[1987STE/MAL]
	V	(333–416)	30.4	348	A	[1987STE/MAL]
	V	(410–481)	28.9	425	A	[1987STE/MAL]
	V	(479–523)	30.1	494	A	[1987STE/MAL]
	V		31.1	298	C	[1980MAJ/SVA]
	V		30.4	313	C	[1980MAJ/SVA]
	V		29.6	328	C	[1980MAJ/SVA]
	V		28.8	343	C	[1980MAJ/SVA]
	V	(260–333)	32.5	275	EB	[1972BOU/AIM]
	V	(215–334)	35.0	230		[1947STU]
	V	(308–333)	30.9	320		[1938SCA/RAY]
	V		29.4	334		[1926MAT]
	V		31.3	298		[1913FLE/TYR, 2002MAN]
$CHFI_2$	[1493-01-2]	diiodofluoromethane				
	V	(299–332)	32.9	314	A	[1987STE/MAL, 1979KUD/KUD, 1970DYK, 1936RUF/BRE]
$CHFN_2O_4$	[7182-87-8]	fluorodinitromethane				
	V	(298–338)	43.6 ± 0.8	318	A	[1987STE/MAL, 1974PEP/NAT]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
CHFO	[1493-02-3]	formyl fluoride				
	V	(178–235)	24.4	220	A	[1987STE/MAL, 1964FIS/BUC, 1970DYK]
CHF_2I	[1493-03-4]	difluoroiodomethane				
	V	(227–287)	26.0	272	A	[1987STE/MAL, 1979KUD/KUD, 1970DYK, 1936RUF/BRE]
CHF_3	[75-46-7]	trifluoromethane (fluoroform)				
	FUS		4.06	118		[1996DOM/HEA, 1962VAL/BRO]
	SUB	(89–118)	25.6	103	A	[1987STE/MAL]
	V	(138–190)	18.1	175	A	[1987STE/MAL]
	V	(198–298)	16.8	213	A	[1987STE/MAL]
	V	(146–192)	18.0	177		[1962VAL/BRO]
	V		16.7	191	C	[1962VAL/BRO]
	V		17.9			[1937HEN]
CHF_3O_2	[16156-36-8]	trifluoromethyl hydroperoxide				
	V	(248–285)	30.9	270	A	[1987STE/MAL, 1971BER/HOH]
CHF_3O_3S	[1493-13-6]	trifluoromethylsulfonic acid				
	V	(354–435)	47.7	369	A	[1987STE/MAL, 1999DYK/SVO]
CHF_3S	[1493-15-8]	trifluoromethanethiol				
	FUS		4.93	116		[1996DOM/HEA, 1960DIN/PAC]
	V	(167–236)	21.8	183		[1999DYK/SVO]
	V	(167–236)	21.0	221	A	[1987STE/MAL, 1999DYK/SVO]
	V		20.0	235		[1960DIN/PAC]
CHF_3S_2	[55860-39-4]	trifluoromethyldisulfane				
	V	(201–308)	29.0	254		[1975GOM/SEE]
CHF_7S	[420-67-7]	(difluoromethyl) sulfur pentafluoride				
	V	(221–292)	27.5	237		[1999DYK/SVO]
	V	(221–293)	25.6	278	A	[1987STE/MAL, 1999DYK/SVO, 1950SIL/CAD]
CHI_3	[75-47-8]	iodoform				
	SUB	(308–365)	69.9	323		[1943NIT/SEK]
CHN	[74-90-8]	hydrogen cyanide				
	FUS		8.4	259.9		[1939GIA/RUE]
	SUB	(236–259)	35.6	248	A	[1987STE/MAL]
	SUB	(237–256)	37.7	247		[1982APP/VAN]
	SUB	(202–254)	37.6	228	A	[1947STU]
	SUB	(236–259)	35.9	248		[1934LEW/SCH]
	SUB	(244–258)	35.7	251		[1926PER/POR]
	V	(259–299)	28.1	274	A	[1987STE/MAL]
	V	(298–457)	27.8	313	A	[1987STE/MAL]
	V	(257–315)	28.1	272		[1975IWA/DAT]
	V		25.2	298		[1939GIA/RUE]
	V	(259–294)	28.0	277		[1934LEW/SCH]
	V	(256–319)	28.1	272	MM	[1926SIN/HAR]
	V	(256–319)	27.2	303	MM	[1926SIN/HAR]
	V	(265–300)	27.8	282		[1926PER/POR]
CDN	[3017-23-0]	deuterium cyanide				
	SUB	(227–259)	36.1	243		[1982APP/VAN]
	SUB	(235–260)	36.5	247		[1934LEW/SCH]
	V	(182–282)	26.2	267		[1947STU]
	V	(265–293)	27.6	279		[1934LEW/SCH]
CHNO	[420-05-3]	cyanic acid				
	V	(233–268)	30.7	253	A	[1987STE/MAL]
	V	(197–267)	NA			[1938LIN]
CHNS	[463-56-9]	thiocyanic acid				
	FUS		10.87	163.2		[1940BIR/BUC]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(278–396)	28.0	293	A	[1987STE/MAL]
CHN_3O_6	[517-25-9]	trinitromethane				
	SUB		45.2 ± 2.1	298		[1999MIR/VOR]
	SUB		54.8 ± 4.2			[1970BON/CAT]
	SUB		46.7 ± 0.4			[1967MIR/LEB, 1970COX/PIL, 1977PED/RYL]
	V	(290–317)	32.6	303	A	[1987STE/MAL, 1967MIR/LEB]
CH_2BrCl	[74-97-5]	bromochloromethane				
	V	(226–341)	42.0	241	A	[1987STE/MAL]
	V	(289–341)	33.5	304		[1959MCD/SHR, 1979KUD/KUD]
CH_2Br_2	[74-95-3]	dibromomethane				
	V	(273–373)	36.5	288	C	[1979KUD/KUD]
	V	(293–343)	36.3	318	I	[1973PHI/JAM]
	V		37.0 ± 0.1	298	A, E	[1972LAY/WAD]
	V	(290–409)	37.2	305	A, E	[1987STE/MAL, 1956MAN, 1970DYK]
	V	(238–371)	37.8	253		[1947STU]
CH_2ClF	[593-70-4]	chlorofluoromethane				
	V	(140–264)	23.3	249	A	[1987STE/MAL, 1970DYK]
CH_2Cl_2	[75-09-2]	dichloromethane				
	FUS	(15–301)	6.16	178.2		[1996DOM/HEA, 1978MOS/RAB]
	V	(286–311)	29.6	298		[2016VRB/DOH]
	V		30.6 ± 0.1	298	C	[1989AN/HU]
	V	(311–383)	29.0	326	A	[1987STE/MAL]
	V		28.8	298	C	[1980MAJ/SVA]
	V		28.1	313	C	[1980MAJ/SVA]
	V		27.3	328	C	[1980MAJ/SVA]
	V	(293–308)	29.4	300	I	[1973PHI/JAM]
	V	(264–311)	30.3	279	EB	[1972BOU/AIM]
	V	(303–313)	29.2	308		[1960MUE/IGN]
	V	(233–313)	30.2	248		[1948GAN/JUN]
	V		NA			[1946DZU]
	V	(186–312)	29.4			[1927PER]
CH_2F_2	[75-10-5]	difluoromethane				
	FUS		4.36	136.4	AC	[1996LUE/MAG]
	V	(208–237)	20/8	222	EB	[1993WEB/GOO]
	V	(149–245)	20.6	230		[1987KAN/OI]
	V	(256–321)	19.9	271	A	[1987STE/MAL]
	V	(191–222)	21.2	207	A	[1987STE/MAL, 1968MAL/MEU]
	V	(191–258)	20.3	243	A	[1987STE/MAL]
	V	(316–351)	20.3	331	A	[1987STE/MAL]
	V	(191–221)	21.2	206		[1968MAL/MEU]
	V	(191–242)	20.6	227		[1968MAL/MEU]
CH_2F_3NS	[1512-33-0]	1,1,1-trifluoromethanesulfenamide				
	V	(218–291)	34.1	276	A	[1987STE/MAL, 1999DYK/SVO, 1960EME/NAB]
CH_2I_2	[75-11-6]	diiodomethane				
	FUS		12.05	279.2		[1987KAF/DOR]
	V		45.6	298	GC	[1994CAR/LAY]
	V		49.0	298	C	[1987FUC/CHA]
	V	(293–455)	48.8	307		[1979KUD/KUD]
	V	(356–505)	45.4	371	A	[1987STE/MAL, 1970DYK]
CH_2N_2	[420-04-2]	cyanamide				
	FUS		8.76	317.2		[1991ACR, 1983WEA]
	FUS	(90–330)	7.27	318.7	AC	[1983DEW/DEK]
	SUB	(227–289)	75.9	290	TE, ME	[1983DEW/VAN]
	SUB		75.2	298	TE, ME	[1983DEW/VAN]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
CH_2N_4	[288-94-8]	2*H*-tetrazole				
	FUS		18.0	430	THBC	[1993KAB/KOZ]
[Note: Authors of [1993KAB/KOZ] report a small solid state enthalpy of transition of 14 J/mole in the range of 230 to 245 K.]						
	FUS		17.7	432.1		[1990KOZ/SIM3]
	FUS		18.4	430.7	DSC	[1989HIL/MOU]
	SUB		88.16	353	C	[1993KAB/KOZ]
	SUB	(333–404)	87.8 ± 1.4	369	ME	[1993KAB/KOZ]
	SUB	(333–404)	88.0 ± 1.6		ME	[1990KOZ/SIM]
	SUB	(333–363)	97.5 ± 4.2	348	ME	[1951MCE/RIG, 1970COX/PIL]
CH_2O	[50-00-0]	formaldehyde				
	FUS		7.53	155		[1998VAS/LEB]
	V	(184–251)	24.3	236	A	[1987STE/MAL]
	V	(173–251)	24.2	236		[1935SPE/WIL, 1987STE/MAL]
CH_2O_2	[64-18-6]	formic acid				
	SUB	(268–281)	60.5	275		[1987STE/MAL]
	SUB	(203–218)	62.1 ± 1	213	TE, ME	[1978CAL/CAL]
	SUB	(265–268)	60.7	266		[1930COO, 1960JON]
	SUB	(253–275)	60.1	264	A	[1947STU]
	V	(300–392)	35.2	315	EB	[1987AMB/GHI3]
	V	(283–384)	36.0	298	A	[1987STE/MAL]
	V (monomer)		20.1 ± 0.1	298	C	[1970KON/WAD]
	V		46.3 ± 0.5	298	C	[1970KON/WAD]
	V	(310–374)	35.2	325		[1949DRE/SHR, 1949DRE/MAR]
	V		19.9	298		[1941STO/FIS]
	V		29.6	303		[1934CAM/CAM]
	V	(273–373)	20.3	315		[1930COO]
	V	(273–373)	20.9	338		[1930COO]
	V		20.4	315	C	[1930COO]
	V		21.1	338	C	[1930COO]
	V	(273–307)	36.8	288		[1894KAH]
	V	(295–374)	47.7	374		[1883KAH]
$(CH_2O_2)_2$	[14523-98-9]	formic acid dimer				
	SUB	(203–218)	64.1 ± 1	213	TE, ME	[1978CAL/CAL]
CH_2O_3	[463-79-6]	carbonic acid				
	SUB	(240–255)	71 ± 9	247	IR	[2010PEE/HUD]
CH_3Br	[74-83-9]	methyl bromide				
	TRS		0.47	173.8		
	FUS	(13–276)	5.98	179.5		[1996DOM/HEA, 1987KAF/DOR, 1938EGA/KEM]
	V	(223–278)	25.8	238		[1979KUD/KUD]
	V	(201–296)	24.6	281	A, E	[1987STE/MAL, 1961LI/ROS]
	V	(203–277)	25.2	262		[1947BEE/JUN]
	V	(203–278)	25.3	263		[1938EGA/KEM]
CH_3Cl	[74-87-31]	methyl chloride				
	FUS		6.42	174.5		[1996DOM/HEA, 1940MES/AST]
	SUB	(130–172)	31.6 ± 0.1	151		[1995BAH/DUP]
	SUB		28.0		B	[1940MES/AST]
	V	(247–310)	22.0	262	A	[1987STE/MAL]
	V	(368–416)	21.8	383	A	[1987STE/MAL]
	V	(308–373)	21.0	323	A	[1987STE/MAL]
	V	(198–278)	22.0	263		[1948GAN/JUN]
	V	(183–250)	22.7	235		[1947BEE/JUN]
	V	(191–249)	23.5	206		[1946THO]
	V	(192–249)	22.6	234		[1940MES/AST]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		19.7	284	C	[1932GRI/AWB]
	V		20.1	293	C	[1926YAT]
	V		21.6	249		[1924SHO, 2002MAN]
CH_3ClFOP	[753-71-9]	methylphosphonyl chlorofluoride				
	FUS		11.85	250.7	AC	[1964FUR/REI]
CH_3Cl_2P	[676-83-5]	dichloromethyl phosphine				
	V	(229–297)	35.5	282	A	[1987STE/MAL, 1963HOL/WAG]
CH_3Cl_2OP	[676-97-1]	methylphosphonic dichloride				
	FUS		18.08	306.1	AC	[1964FUR/REI]
	SUB		62.3			[1970COX/PIL, 1955NEA/WIL]
CH_3F	[593-53-3]	methyl fluoride				
	V	(205–242)	16.9	227	A	[1987STE/MAL]
	V	(240–288)	16.9	273	A	[1987STE/MAL]
	V	(133–211)	17.9	172		[1983OI/SHU]
	V	(141–208)	17.1	193	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(165–217)	16.4	202		[1987STE/MAL, 1948MIC/WAS, 1984BOU/FRI]
	V	(170–197)	17.7	183	A	[1987STE/MAL, 1919MOL/BAT, 1984BOU/FRI]
	V	(268–318)	18.6	293		[1889COL]
CH_3FO	[36336-08-0]	methyl hypofluorite				
	V	(156–225)	23.4	190		[1991KOL/ROZ]
CH_3F_2N	[753-58-2]	*N,N*-difluoromethylamine				
	V	(203–257)	23.5	242	A	[1987STE/MAL]
	V		22.9	257		[1960FRA]
CH_3F_2NS	[758-20-3]	methylimidosulfurous difluoride				
	V	(194–258)	28.7	226		[1999DYK/SVO]
	V	(194–258)	28.6	243	A	[1987STE/MAL, 1999DYK/SVO, 1966COH/MAC]
CH_3F_2P	[753-59-3]	difluoromethyl phosphine				
	V	(174–236)	23.4	221	A	[1987STE/MAL]
CH_3F_2OP	[676-99-3]	methylphosphonyl difluoride				
	FUS	(15–335)	11.88	236.3	AC	[1964FUR/REI]
CH_3F_2OPS	[25237-37-0]	difluorothiophosphoric, *S*-methyl ester				
	V	(236–298)	31.2	251	A	[1987STE/MAL, 1999DYK/SVO, 1968CHA/CAV]
$CH_3F_2PS_2$	[21348-13-0]	difluorodithiophosphoric acid, methyl ester				
	V	(253–298)	39.0	268	A	[1987STE/MAL, 1999DYK/SVO, 1968CHA/CAV]
$CH_3F_4NP_2S_2$	[25741-62-2]	*N,N*-bis(difluorothiophosphoral) methylamine				
	V	(273–325)	38.7	288	A	[1987STE/MAL, 1999DYK/SVO, 1970CHA/CAV]
CH_3I	[74-88-4]	methyl iodide				
	FUS		9.12	206.8		[1982WRE/VIK]
	SUB	(176–227)	40.2 ± 0.4	191	VG	[1982WRE/VIK]
	SUB		U 69.9			[1943NIT/SEK, 1960JON]
	V	(228–337)	30.4	243	A	[1987STE/MAL]
	V	(315–502)	26.5	330	A	[1987STE/MAL]
	V	(208–227)	31.1	217		[1982WRE/VIK]
	V	(259–314)	29.2	274	EB	[1972BOU/AIM, 1979KUD/KUD]
	V	(218–315)	30.4	233		[1947STU]
	V	(273–307)	28.2	288		[1936EWE]
CH_3NO	[75-12-7]	formamide				
	FUS	(85–290)	8.67	275.6	AC	[1983DEW/DEK]
	FUS		7.98	275.7		[1996DOM/HEA, 1965SOM/COO]
	SUB	(251–273)	72.4	264	TE, ME	[1983DEW/VAN]
	SUB	(251–273)	71.7	298	TE, ME	[1983DEW/VAN]
	SUB		71.7	276		[1979DAA/VAN]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(303–376)	60.6	340	GS	[2011EME/VER2]
	V	(303–376)	62.2 ± 0.3	298	GS	[2011EME/VER2]
	V	(344–484)	69.1	298	EB	[1989COX/WAG, 2011EME/VER2]
	V	(293–377)	70.8	308	A	[1987STE/MAL]
	V	(415–466)	61.2	430	A	[1987STE/MAL]
	V		60.2	298	A	[1985BAR/CAS, 1985MAJ/SVO]
	V	(391–466)	54.6	429	EB	[1979OLO, 2011EME/VER2]
	V	(391–466)	59.5 ± 0.2	298	EB	[1979OLO, 2011EME/VER2]
	V	(303–453)	59.3	378		[1967QUI, 2011EME/VER2]
	V	(303–453)	62.0 ± 0.7	298		[1967QUI, 2011EME/VER2]
	V	(251–273)	62.7 ± 0.7	298	TE, ME, S-F	[1967QUI/HOF, 2011EME/VER2]
	V	(298–333)	70.8 ± 0.3	298	ME	[1965SOM/COO, 2011EME/VER2]
	V	(343–483)	64.0	358		[1947STU]
CH_3NOS	[4291-05-8]	*N*-sulfinyl methanamine				
	V	(252–277)	31.8	264	A	[1987STE/MAL, 1999DYK/SVO, 1954BUR/WOO]
CH_3NO_2	[624-91-9]	methyl nitrite				
	V	(218–273)	22.1	258	A	[1987STE/MAL]
	V	(154–225)	26.2	190		[1982ROO]
	V		22.6 ± 0.2			[1958GRA/PRA]
	V	(241–274)	21.0	257		[1937THO/DAI]
CH_3NO_2	[75-52-5]	nitromethane				
	FUS		9.7	244.8		[1996DOM/HEA, 1947JON/GIA]
	V		38.5 ± 0.4	298		[1999MIR/VOR2]
	V	(313–353)	37.2	298	CGC	[1995CHI/HOS]
	V	(405–476)	35.2	420	A	[1987STE/MAL, 1967BER/WES]
	V	(328–410)	36.8	343	A	[1987STE/MAL, 1954MCC/SCO]
	V		37.2 ± 0.1	318	C	[1954MCC/SCO]
	V		36.3 ± 0.1	335	C	[1954MCC/SCO]
	V		35.2 ± 0.1	353	C	[1954MCC/SCO]
	V		34.0 ± 0.1	374	C	[1954MCC/SCO]
	V	(283–373)	38.0 ± 0.4	298	ZG	[1949HOL/DOR]
	V		38.3 ± 0.1	298	C	[1947JON/GIA]
	V		34.4	374	C	[1941PIT/GWI]
	V	(288–373)	37.2	330		[1940HOD]
	V		34.6	374	C	[1930PHI/WAT]
	V		33.9	373	C	[1926MAT]
	V	(310–374)	34.4	342		[1925WIL]
CH_3NO_3	[598-58-3]	methyl nitrate				
	FUS		8.24	190.2		[1996DOM/HEA, 1953GRA/SMI]
	V	(273–303)	34.8	288	A	[1987STE/MAL, 1952MCK/MOE]
CH_3N_5	[4418-61-5]	5-aminotetrazole				
	SUB	(383–443)	112.6 ± 1.2		ME	[1990KOZ/SIM]
CH_4	[74-82-8]	methane				
	FUS		0.94	90.7		[1929CLU, 1931PAR/HUF, 1961SPE, 1976VOG/PIT]
	FUS		0.97	90.6		[1924EUC/KAR]
	SUB	(53–91)	9.7	72		[1987STE/MAL]
	SUB	(54–90)	9.2	72		[1963BON, 1955ARM/BRI]
	SUB	(79–89)	10.0	84		[1960JON]
	SUB	(48–78)	9.7	63	A, MS	[1951TIC/LOS]
	SUB	(67–88)	9.62	77	A	[1947STU]
	V	(90–120)	8.6	105	A	[1987STE/MAL]
	V	(115–149)	8.4	134	A	[1987STE/MAL]
	V	(148–189)	8.7	174	A	[1987STE/MAL]
	V	(91–127)	8.6	112		[1972PRY/GOO, 1984BOU/FRI]
	V	(91–190)	8.5	175		[1972PRY/GOO]
	V		8.1	137		[1971WIL/ZWO]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(100–190)	8.6	175		[1970AMB/COU]
	V		8.2	112	C	[1961HES/WHI]
	V		7.5	130	C	[1961HES/WHI]
	V		5.9	160	C	[1961HES/WHI]
	V		4.0	180	C	[1961HES/WHI]
	V	(109–189)	8.5	149		[1961HES/WHI]
	V		8.5 ± 0.1	99		[1939FRA/CLU]
	V	(92–110)	8.6	101		[1921STO/HEN, 1984BOU/FRI]
CH_4F_2NPS	[31411-30-0]	difluorothiophosphoric acid, *N*-methylamide				
	V	(273–325)	39.1	288	A	[1987STE/MAL, 1999DYK/SVO, 1971CAV/CHA]
CH_4N_2	[12211-52-8]	ammonium cyanide				
	V	(222–305)	47.1	237		[1947STU]
CH_4N_2	[26981-93-1]	methyl diazene				
	V	(195–236)	27.5	221	A	[1987STE/MAL]
	V	(209–236)	25.7	222		[1972ACK/HAL]
CH_3DN_2	[34994-49-5]	*N*-deuteromethyl diazene				
	V		29.9			[1972ACK/HAL]
CH_4N_2O	[57-13-6]	urea				
	FUS		16.6	406.2	DSC	[2013AGA/MOS]
	FUS		14.6	406.2	DSC	[2012SHA/SHA]
	FUS		14.6	406.5	DSC	[2011RAI/MUD]
	FUS		15.13	407.5	DSC	[2010BAB/KUZ]
	FUS		13.9	405.8	DSC	[2010ZEN/LI]
	FUS		14.6	407.2	DSC	[1999RAI/RAI]
	FUS		14.6	406.7	DSC	[1998RAI/RAI]
	FUS		13.6	405.2	DSC	[1998JAM/PAL]
	FUS		15.03	407.9	DSC	[1995FER/DEL]
	FUS		U 11.42	408.2	DSC	[1993RAN/LAK]
	FUS		14.1	406.2		[1993STR/ARG]
	FUS		12.93	408.1		[1990KAB/MIR2]
	FUS		14.5	406.2	DSC	[1988GAM/BRO, 1987GAM/GAU]
	FUS		14.8	406.5	DSC	[1987DEL/FER]
	FUS		13.9	405.8		[1986KOZ/DAL]
	FUS		15.52	405.2		[1985OZA]
	FUS		14.41	406.2		[1983BRO/GAM]
	FUS		13.61	406.0		[1980VOG/SCH]
	FUS		13.47	406.3	DSC	[1972ZOR/HUR]
	FUS		13.8		CR	[1972ZOR/HUR]
	FUS		14.52	405.9		[1934MIL/DIT]
	SUB	(358–402)	95.5 ± 0.3	298	GS	[2006EME/KAB]
	SUB	(329–403)	94.6 ± 2.2	370	ME	[2003ZAI/KAB]
	SUB	(329–403)	95.1 ± 2.2	350	ME	[2003ZAI/KAB]
	SUB		96.0 ± 0.6	298		[2003ZAI/KAB]
	SUB		94.6 ± 0.5	350	C	[2003ZAI/KAB]
	SUB		97.6 ± 1.0		ME	[1987KRA/KOZ]
	SUB		90.9	381		[1987FER/DEL2]
	SUB	(345–368)	87.7	357	A	[1987STE/MAL]
	SUB	(338–362)	96.9	351	TE, ME	[1983DEW/VAN]
	SUB		98.6	298		[1983DEW/VAN]
	SUB		95.4	361		[1978TRI/VOO]
	SUB	(345–368)	87.9 ± 2.1	356		[1956SUZ/ONI, 1960JON, 1970COX/PIL]
	SUB		88.2	357		[1953BRA/CLE2, 1983DEW/VAN]
$CH_4N_2O_2$	[598-57-2]	*N*-nitromethylamine				
	FUS		11.86	324.2	DSC	[2010FAR/RAJ]
$CH_4N_2O_2$	[1111-78-0]	ammonium carbamate				
	V	(247–331)	54.1	262		[1947STU]
CH_4N_2S	[62-56-6]	thiourea				
	FUS		15.17	450.2	DSC	[2016WAN/YIN]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		15.64	444.7	DSC	[2000DEL/JOZ]
	FUS		12.55	452.2	DSC	[1994KIM/LEE]
	TRS	(140–240)	0.026	169		
	TRS	(140–240)	0.113	200	AC	[1993IGA/LOP]
	FUS		16.96	454.2	DSC	[1993RAN/LAK]
	FUS		16.0		DSC	[1993STR/ARG]
	FUS		15.0	454.4	DSC	[1993DEM/BUC]
	FUS		14.42	445.5	DSC	[1990DON/DRE]
	FUS		15.28	455	DSC	[1988ASH]
	FUS		13.8	453.3	DSC	[1972ZOR/HUR]
	SUB		112.0 ± 2.0	298	ME	[2000DEL/JOZ]
	SUB		109.0 ± 2.0	408	TE	[1994FER/MAR]
	SUB		111.0 ± 3.0	298	TE	[1994FER/MAR]
	SUB	(378–396)	103.9 ± 0.3	387	ME	[1994TOR/HER]
	SUB	(348–382)	93.7 ± 4.7	365	DTA	[1988ASH]
	SUB	(348–382)	95.2 ± 4.8	298	DTA	[1988ASH]
	SUB	(368–395)	106.6	384	TE, ME	[1983DEW/VAN]
	SUB		107.6	298		[1983DEW/VAN]
	SUB		112.0 ± 1.5	298	C	[1982TOR/SAB]
	SUB		93.7 ± 10			[1975BAG/AND]
$CH_4N_4O_2$	[556-88-7] nitroguanidine					
	FUS		33.46	505.2	DTA	[2014CHE/LI]
	SUB	(463–498)	139	480	DTA	[2014CUD/POD]
	SUB	(402–473)	142.7 ± 2.0	298	ME	[1978CUN/PAL]
$CH_4N_4O_4$	[14168-44-6] *N,N′*-dinitrodiaminomethane					
	FUS		35.85	371	DTA	[1987OYU/BRI]
CH_4O	[67-56-1] methanol					
	TRS	(78–320)	0.64	157.8		
	FUS	(78–320)	3.21	175.9	AC	[2006WAN/NAN]
	TRS	(6–325)	0.64	157.3		
	FUS	(6–325)	3.22	175.6	AC	[1996DOM/HEA, 1971CAR/WES]
	TRS		0.71	157.8		
	FUS		3.16	175.4		[1996DOM/HEA, 1949STA/GUP]
	TRS		0.65	157.4		
	FUS		3.17	175.2		[1996DOM/HEA, 1929KEL2]
	TRS		0.59	161.1		
	FUS		3.18	175.3		[1996DOM/HEA, 1925PAR]
	SUB (β)	(157–175)	44.2 ± 0.5	166	MS, FTIR	[2005LUC/FER]
	SUB (α)	(145–157)	46.9 ± 0.2	151	MS, FTIR	[2005LUC/FER]
	V	(298–333)	38.0	298		[2004NAS/ZIM]
	V		34.3			[1999FAT]
	V	(175–273)	39.2	258	A	[1987STE/MAL]
	V	(338–487)	36.9	353	A	[1987STE/MAL]
	V	(188–228)	43.7	213	A	[1987STE/MAL]
	V	(224–290)	38.9	275	A	[1987STE/MAL]
	V	(285–345)	38.3	300	A	[1987STE/MAL]
	V	(335–376)	37.0	350	A	[1987STE/MAL]
	V	(373–458)	36.1	388	A	[1987STE/MAL]
	V	(453–513)	35.1	468	A	[1987STE/MAL]
	V		32.7	373	C	[1986YER/WOR]
	V		28.1	423	C	[1986YER/WOR]
	V		20.6	473	C	[1986YER/WOR]
	V		7.4	510	C	[1986YER/WOR]
	V	(316–336)	37.5	331	EB	[1984CER/BOU]
	V	(243–303)	37.8	298		[1983SCH/STR]
	V	(288–337)	38.3	303		[1974GIB/CRE, 1984BOU/FRI]
	V	(337–383)	37.0	352		[1973WIL/ZWO]
	V		37.4 ± 0.1	298	C	[1973SVO/VES]
	V		36.7 ± 0.1	313	C	[1973SVO/VES]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		36.2 ± 0.1	323	C	[1973SVO/VES]
	V		35.6 ± 0.1	333	C	[1973SVO/VES]
	V		35.3 ± 0.1	338	C	[1973SVO/VES]
	V		34.7 ± 0.1	343	C	[1973SVO/VES]
	V		35.2 ± 0.1	338	C	[1973COU/LEE]
	V		35.6 ± 0.1	331	C	[1973COU/LEE]
	V		36.2 ± 0.1	321	C	[1973COU/LEE]
	V		37.0 ± 0.1	306	C	[1973COU/LEE]
	V	(275–336)	38.7	290	EB	[1972BOU/AIM, 1987STE/MAL]
	V		37.43 ± 0.02	298	C	[1971POL/BEN]
	V		37.0 ± 0.1	308	C	[1971POL/BEN]
	V		36.5 ± 0.1	328	C	[1971POL/BEN]
	V		35.5 ± 0.1	328	C	[1971POL/BEN]
	V	(288–357)	38.3	303	EB	[1970AMB/SPR]
	V	(353–483)	36.3	368		[1967HIR/SUD]
	V		37.3 ± 0.1	298	C	[1966WAD]
	V		37.7 ± 0.1	298	C	[1963MCC/LAI]
	V	(278–323)	38.4	293		[1960KLY/MIS]
	V		38.5	273		[1949STA/GUP]
CH_4O_2	[3031-73-0]	methyl hydroperoxide				
	V	(253–313)	37.7	268	A	[1987STE/MAL, 1951EGE/EMT]
CH_4O_3S	[75-75-2]	methanesulfonic acid				
	V	(395–440)	73.9	410	A	[1987STE/MAL, 1999DYK/SVO]
CH_4S	[74-93-1]	methyl mercaptan				
	TRS	(15–279)	2.2	137.6		
	FUS	(15–279)	5.9	150.2	AC	[1996DOM/HEA, 1942RUS/OSB]
	V	(208–298)	27.2	223		[1999DYK/SVO]
	V	(267–359)	25.2	359	A	[1987STE/MAL]
	V	(221–283)	25.7	268	A	[1987STE/MAL]
	V	(345–424)	23.7	360	A	[1987STE/MAL]
	V	(414–470)	24.2	429	A	[1987STE/MAL]
	V		23.8	298		[1971WIL/ZWO]
	V	(222–279)	25.8	264		[1987STE/MAL, 1942RUS/OSB]
	V		24.6 ± 0.1	279	C	[1942RUS/OSB]
CH_5N	[74-89-5]	methylamine				
	FUS		6.13	179.7		[1996DOM/HEA, 1937AST/SIL]
	V	(319–381)	24.8	334	A	[1987STE/MAL]
	V	(373–430)	23.5	388	A	[1987STE/MAL]
	V	(263–329)	26.1	278	A	[1987STE/MAL]
	V	(223–273)	27.2	258	A	[1987STE/MAL, 1970DYK]
	V	(190–267)	27.4	252		[1937AST/SIL, 1984BOU/FRI]
CH_5NO	[593-77-1]	*N*-methylhydroxylamine				
	SUB	(273–308)	56.6	288		[1987STE/MAL, 1957BIS/PAR]
	V	(293–338)	49.7	308	A	[1987STE/MAL, 1970DYK]
	V	(313–338)	49.3	325	A	[1987STE/MAL, 1957BIS/PAR, 1984BOU/FRI]
CH_5NO	[67-62-9]	*O*-methylhydroxylamine				
	V	(228–322)	36.9	243	A	[1987STE/MAL]
	V	(210–321)	38.0	225		[1957BIS/PAR, 1984BOU/FRI]
CH_5N_3O	[758-19-0]	1-methyl-1-nitrosohydrazine				
	SUB		79.5 ± 0.4	298		[1998LEB/CHI]
CH_5N_3S	[79-19-6]	thiosemicarbazide				
	SUB		125.8 ± 1.5	298	C	[1982TOR/SAB]
CH_5O_3P	[993-13-5]	methylphosphonic acid				
	FUS		10.41	382.1	DSC	[2015SHA/GE]
	SUB		48.1 ± 4.2			[1955NEA/WIL, 1970COX/PIL]

TABLE 4. Phase change enthalpies of C_1 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
CH_6ClN	[593-51-1]	methylamine hydrochloride				
	V	(518–593)	114.5	533	A, I	[1987STE/MAL, 1967KIS]
CH_6N_2	[60-34-4]	methylhydrazine				
	FUS		10.42	220.8		[1996DOM/HEA, 1951AST/FIN]
	V	(274–299)	41.8	286	A	[1987STE/MAL, 1951AST/FIN]
$CH_6N_4O_3$	[506-93-4]	guanidine nitrate				
	FUS		25.27	487.2	DSC	[2015ZHA/QIA]
	TRS		1.67	296		
	FUS		25.6	487	DSC	[1993SZA/CZA]
CH_6N_4S	[2231-57-4]	thiocarbohydrazide				
	SUB		152.1 ± 3.0	298	C	[1982TOR/SAB]

TABLE 5. Phase change enthalpies of C_2 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_2BrCl_2F_3O_4$	[38217-37-6]	perchloric acid, 1,2,2-trifluoro-1-chloro-2-bromoethyl ester				
	V	(273–294)	42.5	283	A	[1987STE/MAL, 1973SCH/PIL]
C_2BrCl_3O	[34069-94-8]	trichloroacetyl bromide				
	V	(265–416)	42.6	280	A	[1987STE/MAL, 1947STU]
C_2BrCl_5	[79504-02-2]	bromopentachloroethane				
	SUB	(383–433)	44.4	398	A	[1987STE/MAL, 1949HIG/END]
C_2BrF_3	[598-73-2]	bromotrifluoroethylene				
	V	(260–340)	25.0	275	A	[1987STE/MAL]
$C_2BrF_5O_3S$	[757-02-8]	2-bromotetrafluoroethyl fluorosulfate				
	V	(273–298)	33.2	285		[1963GIL/CAD]
C_2BrF_9S	[63011-81-4]	pentafluoro(1-bromo-1,2,2,2-tetrafluoroethyl) sulfur				
	V	(294–330)	30.7	309	A	[1987STE/MAL, 1999DYK/SVO, 1977NOF/FOX]
$C_2Br_2ClF_3$	[354-51-8]	2-chloro-1,2-dibromo-1,1,2-trifluoroethane				
	V	(343–428)	31.4	358	A	[1987STE/MAL]
	V		35.0 ± 0.1	298	C	[1981MAJ/SVO]
	V		34.2 ± 0.1	313	C	[1981MAJ/SVO]
	V		33.5 ± 0.1	328	C	[1981MAJ/SVO]
	V		32.6 ± 0.1	343	C	[1981MAJ/SVO]
	V		31.6 ± 0.1	358	C	[1981MAJ/SVO]
	V	(301–365)	33.9	333		[1981MAJ/SVO]
$C_2Br_2Cl_4$	[630-25-1]	1,2-dibromotetrachloroethane				
	SUB	(383–453)	52.5	398	A	[1987STE/MAL, 1949HIG/END]
	SUB	(323–423)	56.7	373	A	[1935CAR/DIC]
$C_2Br_2F_4$	[124-73-2]	1,2-dibromotetrafluoroethane				
	FUS	(8–300)	7.04	162.8		[1991ACR, 1982KOS/ZHO]
	V	(283–357)	28.5	298	A	[1987STE/MAL]
	V	(354–443)	26.9	369	A	[1987STE/MAL]
	V	(440–488)	27.1	455	A	[1987STE/MAL]
	V	(298–320)	28.0 ± 0.5	298		[1985PAS/VAR]
	V		28.4 ± 0.1	298	C	[1981MAJ/SVO]
	V		27.5 ± 0.1	313	C	[1981MAJ/SVO]
	V		26.5 ± 0.1	328	C	[1981MAJ/SVO]
	V	(293–319)	28.8	306		[1981MAJ/SVO]
	V	(246–295)	30.0	280		[1987STE/MAL, 1970DYK]
C_2Br_4	[79-28-7]	tetrabromoethylene				
	SUB	(221–310)	44.2	236	A	[1987STE/MAL]
C_2ClFN_2	[30915-40-3]	*cis*-chloro(fluoroimino)acetonitrile				
	V	(254–320)	31.7	269	A	[1987STE/MAL, 1971ZAB/SHR]
C_2ClFN_2	[30915-39-0]	*trans*-chloro(fluoroimino)acetonitrile				
	V	(257–320)	32.7	272	A	[1987STE/MAL, 1971ZAB/SHR]
$C_2ClF_2NO_2$	[42016-33-1]	chloro(fluorocarbonyl)carbamic fluoride				
	V		36.8	376		[1973SPR/WRI]
C_2ClF_3	[79-38-9]	chlorotrifluoroethylene				
	FUS	(16–245)	5.55	115	AC	[1996DOM/HEA, 1951OLI/GRI2]
	V	(206–262)	21.8	247	A	[1987STE/MAL, 1951OLI/GRI2]
	V	(298–379)	20.2	313	A	[1987STE/MAL, 1951OLI/GRI2]
	V	(195–250)	21.9	235		[1933HEI/MUR]
$C_2ClF_3O_2$	[23213-83-4]	chloroformic acid, trifluoromethyl ester				
	V	(195–273)	24.1	258	A	[1987STE/MAL, 1969SCH/MAY]
	V	(195–273)	25.2	234		[1969SCH/MAY]
$C_2ClF_3O_4S$	[6069-32-5]	difluorochloroacetic acid, fluorosulfuric acid anhydride				
	V	(265–352)	39.8	280	A	[1987STE/MAL, 1966DES/CAD, 1999DYK/SVO]
C_2ClF_4NO	[42016-31-9]	chloro(trifluoromethyl)carbamic fluoride				
	V		28.9	310		[1973SPR/WRI]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_2ClF_4NO_4S$	[42016-34-2]	fluorosulfuric acid, chloro(trifluoromethyl)carbamic acid anhydride				
	V		28.5	398		[1973SPR/WRI]
C_2ClF_5	[76-15-3]	chloropentafluoroethane				
	TRS		2.63	80.2		
	FUS		1.88	173.7		[1996DOM/HEA, 1955AST/WIL]
	V	(262–317)	19.7	277	A	[1987STE/MAL]
	V	(234–265)	20.1	250	A	[1987STE/MAL]
	V	(312–353)	19.7	327	A	[1987STE/MAL]
	V	(178–234)	20.9	219		[1966MEA/ROS]
	V		20.9			[1956PLA]
	V	(176–235)	20.9	220	A	[1987STE/MAL, 1955AST/WIL]
	V		19.4 ± 0.1	234	C	[1955AST/WIL]
$C_2ClF_5N_2$	[660-80-0]	1-(chlorodifluoromethyl)-2-(trifluoromethyl)diazene				
	V		24.5			[1967HYN/BIS]
C_2ClF_5O	[22675-67-8]	hypochlorous acid, pentafluoroethyl ester				
	V	(193–248)	25.0	233	A	[1987STE/MAL, 1973DEM/SHR]
	V	(193–248)	25.6	220		[1969SCH/MAY]
C_2ClF_5OS	[39937-08-1]	pentafluoroethanesulfinyl chloride				
	V	(273–338)	32.7	288	A	[1987STE/MAL, 1964RAT/SHR, 1999DYK/SVO]
$C_2ClF_5O_3S$	[649-61-6]	2-chlorotetrafluoroethyl fluorosulfate				
	V	(248–330)	32.9	289		[1963GIL/CAD]
$C_2ClF_5O_6S_2$	[1957-17-1]	1,2,2-trifluoro-1-chloro-1,2-ethanediol bis(fluorosulfate)				
	V	(308–406)	53.2	323	A	[1987STE/MAL, 1999DYK/SVO]
C_2ClF_6NOS	[74366-11-3]	(pentafluoroethyl)imidosulfurous chloride fluoride				
	V		35.6	326	I	[1980ABE/SHR]
C_2ClF_6P	[650-52-2]	bis(trifluoromethyl) chlorophosphine				
	V	(193–273)	27.8	258		[1964PET/BUR, 1984BOU/FRI]
C_2ClF_6PS	[18799-82-1]	bis(trifluoromethyl)phosphinothioic chloride				
	SUB	(229–251)	36.2	240		[1968GOS/BUR]
$C_2ClF_6PS_2$	[660-05-9]	chloro bis(trifluoromethylthio)phosphine				
	V	(293–373)	33.0	333		[1960EME/PUG]
C_2ClF_9NP	[13105-57-2]	[bis(trifluoromethyl)amino]trifluorochlorophosphorous(V)				
	V	(223–273)	26.4	248		[1966RIN/ONE]
C_2ClF_9S	[646-63-9]	2-chlorotetrafluoroethylsulfur pentafluoride				
	V		28.3	320		[1961CAS/RAY, 1999DYK/SVO]
C_2ClF_9S	[42769-85-7]	sulfur, chlorotetrafluoro(pentafluoroethyl)				
	V		28.7			[1973ABE/SHR2]
$C_2Cl_2F_2$	[598-88-9]	1,2-dichloro-1,2-difluoroethylene				
	V	(191–294)	27.9	279	A	[1987STE/MAL]
	V	(240–294)	27.2	279		[1933BOO/BUR]
$C_2Cl_2F_2N_2$	[30913-21-4]	dichloro(difluoroamino)acetonitrile				
	V	(238–341)	26.8	253	A	[1987STE/MAL, 1971ZAB/SHR]
$C_2Cl_2F_2O$	[354-18-7]	fluorodichloroacetyl fluoride				
	V	(208–273)	21.8	258	A	[1987STE/MAL, 1973SCH/PIL]
	V	(208–273)	21.5	240		[1973SCH/PIL]
$C_2Cl_2F_3NO$	[32751-03-4]	*N*, *N*′-dichloro-2,2,2-trifluoroacetamide				
	V		40.9			[1972DEM/SHR]
$C_2Cl_2F_3NO$	[354-71-2]	1,2-dichlorotrifluoro-1-nitrosoethane				
	V	(307–310)	29.0	308	I	[1960GRI/HAZ]
$C_2Cl_2F_3NOS$	[24433-67-8]	*S*,*S*-dichloro-*N*-(trifluoroacetyl) sulfilimine				
	V	(306–333)	44.2	319	A	[1987STE/MAL, 1969GLE/VON, 1999DYK/SVO]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_2Cl_2F_3NO_2S$	[51587-33-8]	(trifluoromethyl)sulfonyl carbonimidic dichloride				
	V	(312–405)	44.1	327	A	[1987STE/MAL, 1999DYK/SVO, 1974BEH/HAA]
$C_2Cl_2F_4$	[374-07-2]	1,1-dichloro-1,2,2,2-tetrafluoroethane				
	V	(231–373)	23.5	246	A	[1987STE/MAL, 1970DYK]
	V		23.2	233	BG	[1955MEA/STA]
	V		22.5	273	BG	[1955MEA/STA]
	V		20.8	313	BG	[1955MEA/STA]
	V		17.7	353	BG	[1955MEA/STA]
$C_2Cl_2F_4$	[76-14-2]	1,2-dichloro-1,1,2,2-tetrafluoroethane				
	TRS	(8–179)	1.21	109.3		
	TRS	(8–179)	2.63	134.6		
	FUS	(8–179)	1.51	180.6	AC	[1996DOM/HEA, 1981KOL/KOS]
	V	(277–391)	24.3	292	A	[1987STE/MAL]
	V	(210–277)	25.1	262	A	[1987STE/MAL]
	V	(178–277)	25.3	261		[1947STU]
$C_2Cl_2F_4O_4$	[38126-28-2]	perchloric acid, 1,1,2,2-tetrafluoro-2-chloroethyl ester				
	V	(249–294)	32.6	279	A	[1987STE/MAL, 1973SCH/PIL]
$C_2Cl_2F_5NS$	[10564-48-4]	*S*,*S*-dichloro-*N*-(pentafluoroethyl) sulfilimine				
	V	(297–375)	37.4	312	A	[1987STE/MAL, 1999DYK/SVO, 1966LUS]
$C_2Cl_2F_8NP$	[13105-58-3]	[bis(trifluoromethyl)amino]difluorodichlorophosphorous(V)				
	V	(262–305)	32.9	293		[1966EME/ONA]
$C_2Cl_3F_3$	[354-58-5]	1,1,1-trichloro-2,2,2-trifluoroethane				
	FUS		4.11	287.5	DSC	[1987OTT/WOO]
	V		28.1 ± 0.1	298	C	[1980MAJ/SVO]
	V		27.2 ± 0.1	313	C	[1980MAJ/SVO]
	V		26.3 ± 0.1	328	C	[1980MAJ/SVO]
	V	(297–319)	28.9	308		[1980MAJ/SVO]
	V	(286–310)	29.2	298	A	[1987STE/MAL, 1963HIR/HIL]
$C_2Cl_3F_3$	[76-13-1]	1,1,2-trichloro-1,2,2-trifluoroethane				
	TRS	(6–299)	0.83	82.5		
	FUS	(6–299)	2.47	236.9	AC	[1991ACR, 1981KOL/KOS]
	SUB	(205–233)	32.9	219	A	[1947STU]
	V	(238–364)	30.9	253	A	[1987STE/MAL]
	V	(360–473)	26.9	375	A	[1987STE/MAL]
	V	(297–317)	28.8	307	A	[1987STE/MAL]
	V		28.4 ± 0.1	298	C	[1980MAJ/SVO]
	V		27.5 ± 0.1	313	C	[1980MAJ/SVO]
	V		26.6 ± 0.1	328	C	[1980MAJ/SVO]
	V		28.2 ± 0.4	298		[1974VAR/BUL]
	V	(273–318)	28.2	288	A	[1963HIR/HIL, 1987STE/MAL]
	V	(248–356)	30.8	263		[1940BEN/MCH]
	V	(243–353)	NA			[1939REI]
$C_2Cl_3F_3$		trichlorotrifluoroethane				
	V	(248–352)	30.5	263		[1938REI]
$C_2Cl_3F_3O_4$	[38126-27-1]	perchloric acid, 1,2,2-trifluoro-1,2-dichloroethyl ester				
	V	(273–296)	26.9	284	A	[1987STE/MAL, 1973SCH/PIL]
C_2Cl_3N	[545-06-2]	trichloroacetonitrile				
	V	(289–357)	35.1	304	A	[1987STE/MAL, 1970DYK]
	V	(289–356)	34.7	304		[1954DAV/JEN]
C_2Cl_4	[127-18-4]	tetrachloroethylene				
	TRS	(6–300)	0.82	210		
	FUS	(6–300)	10.88	250.8	AC	[1996DOM/HEA, 1986NOV/RAB]
	V	(307–393)	38.4	322		[1995DEJ/BUR]
	V		39.7	298	C	[1980MAJ/SVA]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		38.9	313	C	[1980MAJ/SVA]
	V		38.2	328	C	[1980MAJ/SVA]
	V		37.4	343	C	[1980MAJ/SVA]
	V		36.6	358	C	[1980MAJ/SVA]
	V	(310–393)	38.7	325	A	[1987STE/MAL, 1972BOU/AIM]
	V	(300–380)	38.9	315		[1970POL/MUR, 1984BOU/FRI]
	V	(333–373)	37.6	348		[1967FRI/GAL]
	V		39.6 ± 0.1	298	C	[1960AIH]
	V		34.7 ± 0.1	394		[1926MAT]
	V	(306–391)	35.7	397		[1913HER/RAT]
$C_2Cl_4F_2$	[76-12-0]	1,2-difluoro-1,1,2,2-tetrachloroethane				
	TRS		0.79	130		
	FUS		3.7	297.9		[1991ACR, 1978KIS/SUG]
	FUS		3.7	299.7		[1978KOS/KOL]
	SUB	(235–293)	36.4	278	A	[1987STE/MAL, 1947STU]
	SUB	(237–293)	38.2	265	A	[1947STU]
	V	(313–361)	34.8 ± 0.4	298		[2007VAR/DRU, 1976VAR/BUL]
	V		34.6 ± 0.1	308	C	[1992SVO/KUB2]
	V		34.1 ± 0.1	315	C	[1992SVO/KUB2]
	V		33.6 ± 0.1	323	C	[1992SVO/KUB2]
	V		33.1 ± 0.1	330	C	[1992SVO/KUB2]
	V		32.6 ± 0.1	338	C	[1992SVO/KUB2]
	V	(301–365)	36.6	316	A	[1987STE/MAL]
	V	(235–293)	36.4	278	A	[1987STE/MAL]
	V	(312–362)	34.0	327	A	[1987STE/MAL, 1976VAR/BUL]
	V	(283–364)	32.7	298		[1933HOR/GEI]
$C_2Cl_4F_2O_3S$	[665-15-6]	2-fluorotetrachloroethyl fluorosulfate				
	V	(311–437)	42.0	329		[1963GIL/CAD]
$C_2Cl_4F_2O_4$	[38126-29-3]	perchloric acid, 1,2-difluoro-1,2,2-trichloroethyl ester				
	V	(273–294)	30.2	283	A	[1987STE/MAL, 1973SCH/PIL]
$C_2Cl_4F_4N_2$	[35695-53-5]	1,2-bis(dichloroamino) tetrafluoroethane				
	V		43.1			[1972DEM/SHR]
$C_2Cl_4F_6OS$	[762-90-3]	pentafluoro(2-fluoro-1,1,2,2-tetrachloroethoxy) sulfur				
	V	(314–418)	42.8	329	A	[1987STE/MAL, 1962WIL/CAD]
C_2Cl_4O	[16650-10-5]	tetrachloroethylene oxide				
	V	(308–348)	36.9	323	A	[1987STE/MAL, 1957FRA/JOH]
C2Cl4O	[76–02-8]	trichloroacetyl chloride				
	V	(305–393)	38.3	320	A	[1987STE/MAL, 1959MCD/SHR, 1970DYK]
C_2Cl_6	[67-72-1]	hexachloroethane				
	TRS		2.10	316.8		
	TRS		6.30	345.0		[1996DOM/HEA, 1988PET/TSY]
	TRS	(14–360)	2.64	317.4		
	TRS	(14–360)	6.92	344.6	AC	[1996DOM/HEA, 1975RAK/GUT]
	TRS		2.61	320.2		
	TRS		6.31	344.7	DSC	[1970MUR/BRE2]
	TRS		3.12	316.2		[1967TSE/GOD]
	TRS	(295–351)	2.57	318		
	TRS	(295–351)	8.22	345		
	FUS	(295–351)	9.75	458	CC	[1996DOM/HEA, 1950SEK/MOM]
	SUB	(317–345)	58.9	331	A	[1987STE/MAL]
	SUB (m.p. 186.6)	(306–459)	48.8	382	A	[1947STU]
	SUB (triclinic)	(286–447)	59.1 ± 0.7	367	BG	[1947IVI/DAI, 1960JON, 1970COX/PIL]
	SUB (cubic)	(286–447)	51.0	367	BG	[1947IVI/DAI, 1960JON]
	SUB		NA		GSM	[1941NIT/SEK]
	SUB	(335–453)	50.5			[1935LEE]
	SUB	(288–333)	59.0	310	GS, A	[1930NEL]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(460–513)	40.3	475	A	[1987STE/MAL, 1935LEE]
	V	(345–460)	51.2	360	A	[1987STE/MAL, 1970DYK]
	V	(305–458)	53.7	320		[1947STU]
C_2FNO_2	[15435-14-0]	fluorocarbonyl isocyanate				
	V	(228–264)	33.5	249	A	[1987STE/MAL, 1967GLE/BIE]
$C_2F_2N_2O$	[32837-63-1]	difluorocarboncyamidic amide				
	V		29.7	383		[1973WRI/SHR]
$C_2F_2N_2O_2$	[32837-64-2]	difluorocarbonisocyantidic amide				
	V		33.9	327		[1973WRI/SHR]
$C_2F_2N_4O_8$	[20165-39-3]	1,2-difluoro-1,1,2,2-tetranitroethane				
	V	(297–323)	62.8	310	A	[1987STE/MAL, 1973PEP/LEB]
$C_2F_2O_2$	[359-40-0]	oxalyl fluoride				
	FUS		13.4	260.7		[1996DOM/HEA, 1971HOD]
	SUB	(234–260)	16.7	247	A	[1987STE/MAL]
	V	(264–272)	29.7	268	A	[1987STE/MAL]
$C_2F_2O_4$	[692-74-0]	bis(fluorocarbonyl)peroxide				
	V	(226–266)	30.6	251		[1962VON/AYM, 1984BOU/FRI]
C_2F_3N	[353-85-5]	trifluoroacetonitrile				
	FUS		4.97	128.7		[1996DOM/HEA, 1961PAC/BOB]
	V	(151–206)	19.3	191	A	[1987STE/MAL]
	V	(141–203)	19.2	188	A	[1987STE/MAL]
	V	(197–241)	18.5	226	A	[1987STE/MAL]
	V	(282–336)	17.4	309	A	[1987STE/MAL]
	V	(272–311)	17.4	287	A	[1987STE/MAL]
	V	(142–206)	19.2	191		[1961PAC/BOB]
	V		17.8	205	C	[1961PAC/BOB]
C_2F_3NO	[460-49-1]	trifluoromethyl isocyanate				
	V	(195–228)	22.5	213	A	[1987STE/MAL, 1956BAR/HAS2]
C_2F_3NO	[2713-04-4]	trifluoronitrosoethylene				
	V	(247–250)	25.7	248	A, I	[1987STE/MAL, 1960GRI/HAZ]
C_2F_3NOS	[61951-27-7]	trifluoromethanesulfinyl cyanide				
	V		40.2	352	I	[1977BUR/SHR]
C_2F_3NOS	[691-03-2]	trifluoroemethylsulfenyl isocyanate				
	V	(231–293)	27.9	278	A	[1987STE/MAL, 1999DYK/SVO, 1963EME/HAA]
$C_2F_3NO_2S$	[26454-68-2]	2,2,2-trifluoro-*N*-sulfinylacetamide				
	V	(267–302)	36.4	282	A	[1987STE/MAL, 1999DYK/SVO]
	V	(244–268)	35.4	256		[1970VON/GLE]
$C_2F_3NO_2S_2$	[51587-30-5]	trifluoromethanesulfonyl isothiocyanate				
	V	(297–385)	41.0	312	A	[1987STE/MAL, 1999DYK/SVO, 1974BEH/HAA]
$C_2F_3NO_3S$	[30227-06-6]	trifluoromethanesulfonyl isocyanate				
	V	(275–345)	36.9	290	A	[1987STE/MAL, 1999DYK/SVO, 1974BEH/HAA]
$C_2F_3NO_6$	[53340-26-4]	trifluoroacetyl peroxynitrate				
	V	(223–293)	33.6	258		[1997KOP/BEU]
$C_2F_3NO_6$	[227095-77-4]	trifluoromethoxycarbonyl peroxynitrate				
	V	(213–263)	38.0	238		[2005VON/GAR]
C_2F_3NS	[690-24-4]	thiocyanic acid, trifluoromethyl ester				
	V	(226–294)	32.6	279	A	[1987STE/MAL, 1999DYK/SVO, 1963EME/HAA]
$C_2F_3N_3O_6$	[20165-38-2]	1,1,2-trifluoro-1,2,2-trinitroethane				
	V	(313–353)	57.7	328	A	[1987STE/MAL, 1973PEP/LEB]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2F_4	[116-14-3]	tetrafluoroethylene				
	FUS	(16–210)	7.71	142	AC	[1996DOM/HEA, 1953FUR/MCC]
	V	(197–273)	16.8	258	A	[1987STE/MAL]
	V	(273–306)	16.6	288	A	[1987STE/MAL]
	V	(142–208)	18.6	193	A	[1987STE/MAL, 1953FUR/MCC, 1984BOU/FRI]
	V		17.8			[1933RUF/BRE]
$C_2F_4N_2$	[5131-88-4]	tetrafluoroaminoacetic, nitrile				
	V	(193–238)	23.9	223	A	[1987STE/MAL, 1965DRE/MER]
$C_2F_4N_2O_3$	[679-08-3]	1,1,2,2-tetrafluoro-1-nitro-2-nitrosoethane				
	V	(233–293)	28.8	278	A	[1987STE/MAL, 1962BIR/BLO]
$C_2F_4N_2O_4$	[356-16-1]	1,1,2,2-tetrafluoro-1,2-dinitroethane				
	V	(303–343)	67.8	323		[1973PEP/LEB]
	V	(259–333)	34.7	274	A, I	[1987STE/MAL, 1957FRA/SAN]
$C_2F_4N_2O_6S_2$	[19252-50-7]	1,2-bis(fluoroformyl)-1,2-bis(fluorosulfonyl)hydrazine				
	V	(273–296)	49.8	284	A	[1987STE/MAL, 1999DYK/SVO, 1968NOF/SHR]
C_2F_4O	[354-34-7]	trifluoroacetyl fluoride				
	V	(161–215)	20.9	200	A	[1987STE/MAL, 1972PAC/HOD]
$C_2F_4O_2S$	[684-10-6]	trifluoroethylene sulfonyl fluoride				
	V	(270–313)	27.0	285	A	[1987STE/MAL, 1999DYK/SVO, 1966BAN/HAS]
$C_2F_4O_3$	[16118-40-4]	fluoroperoxyformic acid, trifluoromethyl ester				
	V	(194–249)	27.3	234	A	[1987STE/MAL]
	V		25.9		BG	[1970DES]
$C_2F_4O_4S$	[5762-53-8]	trifluoroacetyl fluorosulfate				
	V	(262–321)	34.3	277	A	[1987STE/MAL, 1966DEL/SHR]
	V	(250–320)	34.9	265		[1966MEA/ROS]
$C_2F_4S_2$	[1717-50-6]	tetrafluoro-1-3-dithietane				
	V		29.2			[1973ABE/SHR]
C_2F_5I	[354-64-3]	pentafluoroiodoethane				
	V	(248–283)	20.8	268	A	[1987STE/MAL, 1949EME/HAS]
C_2F_5NO	[32822-49-4]	pentafluoroacetamide				
	V		23.8	252	HG	[1971DEM/SHR]
C_2F_5NO	[354-72-3]	pentafluoronitrosoethane				
	V	(193–227)	20.9	212	A	[1987STE/MAL, 1956BAR/HAS]
C_2F_5NO	[60247-20-3]	3,3-difluoro-2-(trifluoromethyl)oxaziridine				
	V	(222–237)	22.5	229		[1976FAL/DES3]
C_2F_5NOS	[32837-66-4]	carbamothioic acid, difluoro-*S*-(trifluoromethyl) ester				
	V		23.0	315		[1973WRI/SHR]
C_2F_5NOS	[24433-65-6]	*S*,*S*-difluoro-*N*-(trifluoroacetyl) sulfilimine				
	V	(240–282)	34.4	267	A	[1987STE/MAL, 1969GLE/VON, 1999DYK/SVO]
C_2F_5NOS	[28103-61-9]	1,1,1-trifluoro-*N*-(fluoroformyl)methanesulfinimidyl fluoride				
	V	(276–323)	38.9	291	A	[1987STE/MAL, 1999DYK/SVO, 1970DUN]
C_2F_5NOS	[10564-50-8]	1,1,2,2,2-pentafluoro-*N*-sulfinyl ethylamine				
	V	(245–303)	29.0	260	A	[1987STE/MAL, 1999DYK/SVO, 1966LUS]
$C_2F_5NO_4S$	[19252-49-4]	(fluorosulfonyl)(trifluoromethoxy)carbamoyl fluoride				
	V	(277–290)	30.3	283		[1999DYK/SVO, 1968NOF/SHR]
$C_2F_5N_3O_3$	[755-68-0]	fluoro(1,1,2,2-tetrafluoro-2-nitroethyl)-2-diimide oxide				
	V	(257–350)	38.0	272	A	[1987STE/MAL, 1953FRA/DUV]
C_2F_6	[76-16-4]	hexafluoroethane				
	TRS		3.74	104		
	FUS		2.69	173.1		[1996DOM/HEA, 1948PAC/AST]
	SUB		26.0	103		[1963BON, 1948PAC/AST]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(172–200)	17.3	186	A	[1987STE/MAL]
	V	(180–196)	17.1	188		[1948PAC/AST]
	V		16.8			[1933RUF/BRE]
C_2F_6IN	[5764-87-4]	*N*-iodo-bis(trifluoromethyl)amine				
	V	(261–318)	28.5	276	A	[1987STE/MAL, 1966DOB/EME2]
C_2F_6IP	[359-64-8]	bis(trifluoromethyl) phosphinous iodide				
	V	(273–320)	33.2	288		[1964PET/BUR, 1984BOU/FRI]
$C_2F_6N_2$	[372-63-4]	hexafluoroazomethane				
	V	(205–242)	22.9	227	A	[1987STE/MAL]
	V	(275–280)	26.8	280		[1954JAN/HAS2]
$C_2F_6N_2O$	[371-56-2]	hexafluoroazoxymethane				
	V	(274–281)	27.2	277	A	[1987STE/MAL, 1953JAN/HAS]
$C_2F_6N_2O_2$	[359-75-1]	1,1,1-trifluoro-*N*-(nitrosooxy)-*N*-(trifluoromethyl)methanamine				
	V	(245–285)	26.8	270	A	[1987STE/MAL, 1965DIN/HAS2]
$C_2F_6N_2O_2$	[367-54-4]	*N*-nitroso-*O*,*N*-bis(trifluoromethyl)hydroxylamine				
	V	(272–283)	25.4	277	A	[1987STE/MAL, 1954JAN/HAS]
C_2F_6OS	[30341-37-8]	bis(trifluoromethyl)sulfoxide				
	V	(248–303)	27.9	263	A	[1987STE/MAL, 1999DYK/SVO, 1970LAW]
	V		28.4			[1971SAU/SHR]
C_2F_6OS	[20621-31-2]	pentafluoroethyl sulfinyl fluoride				
	V	(234–293)	28.5	278	A, I	[1987STE/MAL, 1968RAT/SHR, 1999DYK/SVO]
$C_2F_6OS_2$	[63548-94-7]	*S*-trifluoromethyl-(trifluoromethyl)thiosulfinate				
	V	(293–353)	30.7	333		[1999DYK/SVO, 1977GOM]
$C_2F_6O_2S$	[354-87-0]	perfluoroethyl fluorosulfate				
	V	(250–300)	28.8	275		[1963GIL/CAD]
$C_2F_6O_3$	[1718-18-9]	bis(triflormethyl) trioxide				
	V	(193–248)	24.3	233	A	[1987STE/MAL]
	V	(193–248)	23.8	220.5		[1967AND/FOX]
$C_2F_6O_3S$	[3582-05-6]	trifluoromethanesulfonic acid, trifluoromethyl ester				
	V	(238–294)	29.4	252		[1999DYK/SVO, 1965NOF/CAD]
	V	(238–294)	27.6	279	A	[1987STE/MAL, 1965NOF/CAD]
$C_2F_6O_4S$	[1479-52-3]	bis(trifluoromethyl) sulfate				
	V	(219–304)	28.7	262		[1960VAN/CAD]
$C_2F_6O_5S$	[41765-14-4]	peroxysulfuric acid, bis(trifluoromethyl) ester				
	V	(253–319)	32.0	268		[1999DYK/SVO]
	V		29.9			[1973HOH/DES]
$C_2F_6O_6S_2$	[1479-53-4]	tetrafluoroethylene glycol, bis(fluorosulfate)				
	V	(295–378)	43.7	310	A	[1987STE/MAL, 1970DYK, 1999DYK/SVO, 1961SHR/CAD]
$C_2F_6O_7S_2$	[1002788-69-3]	bis(trifluoromethyl) disulfate				
	V	(328–357)	38.3	342		[1960VAN/CAD]
C_2F_6S	[371-78-8]	bis(trifluoromethyl) sulfide				
	V		23.6			[1952BRA/EME]
$C_2F_6S_2$	[372-64-5]	bis(trifluoromethyl) disulfide				
	V		28.8			[1952BRA/EME]
C_2F_7N	[359-62-6]	perfluorodimethylamine				
	V	(199–230)	21.4	215	A	[1987STE/MAL, 1965DIN/HAS3]
	V	(203–233)	18.6	218	A	[1987STE/MAL, 1949THO/EME]
C_2F_7N	[354-80-3]	perfluoroethylamine				
	V	(171–236)	20.8	221	A	[1987STE/MAL, 1970DYK, 1951COA/HAR]
C_2F_7NOS	[59617-28-6]	(pentafluoroethyl)imidosulfuryl fluoride				

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		30.7			[1976STA/MEW]
$C_2F_7NO_3S$	[4188-34-5]	fluorosulfuric acid, 1,1,2,2-tetrafluoro-2-(difluoroamino)ethyl ester				
	V	(262–321)	31.1	291	A	[1987STE/MAL, 1999DYK/SVO, 1965LUS/RUF]
$C_2F_7NO_{12}S_4$	[53684-02-9]	fluorosulfuric acid, 1-[bis[(fluorosulfonyl)oxo]amino]-2,2,2-trifluoroethylidene ester				
	V		43.4	418		[1975KIR/LAS]
C_2F_8NOP	[13105-59-4]	[bis(difluoromethyl)amino] difluorophosphine oxide				
	V	(233–278)	30.4	255		[1966EME/ONA]
C_2F_8NOP	[36544-19-1]	phosphorous bis(trifluoromethyl)nitroxide difluoride				
	V		28.0	288		[1973WAN/SHR]
C_2F_8OS	[33716-15-3]	difluorooxo-bis-(trifluoromethyl)sulfur				
	V	(239–299)	22.4	254	A	[1987STE/MAL, 1999DYK/SVO, 1971SAU/SHR3]
C_2F_8OS	[82390-51-0]	pentafluoro(trifluoroacetyl) sulfur				
	V	(162–290)	26.6	177		[1999DYK/SVO, 1982DEM/FOX]
$C_2F_8O_3S$	[60672-61-9]	pentafluoro (trifluoroethaneperoxoato) sulfur				
	V		28.0			[1976HOP/DES]
C_2F_8S	[1186-51-2]	trifluorovinyl sulfur pentafluoride				
	V		25.1	292		[1961CAS/RAY]
C_2F_8S	[30341-38-9]	difluoro bis(trifluoromethyl) sulfur				
	V		28.8			[1971SAU/SHR]
$C_2F_{10}OS$	[1580-07-0]	pentafluoro(pentafluoroethoxy) sulfur				
	V	(245–287)	27.6	272	A	[1987STE/MAL, 1962WIL/CAD]
$C_2F_{10}O_2S$	[2004-38-8]	tetrafluoro bis(trifluoromethoxy) sulfur				
	V	(246–302)	29.9	261	A	[1987STE/MAL, 1964DUN/CAD]
$C_2F_{10}O_3S$	[41938-43-6]	(trifluoromethoxy)[(trifluoromethyl)dioxy] sulfur tetrafluoride				
	V	(255–317)	32.5	270		[1999DYK/SVO]
	V		30.7			[1973HOH/DES]
$C_2F_{10}O_3S_2$	[68010-32-2]	pentafluoro[1,2,2,2-tetrafluoro-1-[(fluorosulfonyl)oxy]ethyl] sulfur				
	V		34.8			[1978DEM/FOX]
$C_2F_{10}S$	[42179-02-2]	*trans*-tetrafluoro bis(trifluoromethyl) sulfur				
	V	(233–293)	23.3	278	A	[1987STE/MAL, 1999DYK/SVO]
$C_2F_{11}NS$	[13888-13-6]	[bis(trifluoromethyl)amino] sulfur pentafluoride				
	V	(233–306)	29.3	248	A	[1987STE/MAL, 1966DOB, 1999DYK/SVO]
$C_2F_{12}S_2$	[42060-66-2]	perfluoro-1,3-dithietane octafluoride				
	V		35.6			[1973ABE/SHR]
C_2N_2	[460-19-5]	cyanogen				
	FUS		8.11	245.3	C	[1996DOM/HEA, 1939RUE/GIA]
	SUB	(202–239)	33.0	224	A	[1987STE/MAL]
	SUB	(177–230)	33.6	204	A	[1947STU]
	SUB	(202–245)	34.4		CATH	[1939RUE/GIA]
	SUB	(198–240)	32.4	224		[1975GRO, 1925PER/BAR]
	SUB		NA			[1916TER]
	V	(240–253)	24.5	246	A	[1987STE/MAL]
	V	(246–273)	23.9	257		[1925PER/BAR]
	V	(246–273)	23.5	267		[1925PER/BAR]
	V		NA			[1916TER]
$C_2N_4O_6$ (??)		trinitroacrylonitrile (????)				
	SUB		66.9 ± 1.3		V + F	[2002MAT/LEB]

[Note: Authors of [2002MAT/LEB] call the compound trinitroacrylonitrile; however, they give a structural formula of $(NO_2)_3CCN$ which is not consistent with the name. We have listed the compound under the structural formula and indicated with question marks that there was an inconsistency in how the name and formula were given.]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_2N_6O_{12}$	[918-37-6]	hexanitroethane				
	TRS		12.4	290.5	DSC	[1970KRI/LIC]
	SUB		70.7	298		[1999MIR/VOR]
	SUB	(293–343)	U30.4	308	A	[1987STE/MAL, 1963NOB/REE]
	SUB	(293–313)	70.7 ± 1.7	303	ME	[1969MIR/LEB, 1977PED/RYL]
	SUB	(293–343)	70.7 ± 1.7			[1968PEP/MIR]
C_2HBr	[593-61-3]	bromoacetylene				
	V	(214–273)	25.6	273	A	[1987STE/MAL]
$C_2HBrClF_3$	[151-67-7]	2-bromo-2-chloro-1,1,1-trifluoroethane				
	FUS		4.84	154.7		[1996DOM/HEA, 1984GOL/KOL]
	V	(302–323)	29.8 ± 0.4	298		[2007VAR/DRU, 1985PAS/VAR]
	V	(298–323)	30.0	310	A	[1987STE/MAL]
	V		29.6 ± 0.3	298		[1981PAP/ERA]
	V		29.6 ± 0.1	298	C	[1980MAJ/SVO]
	V		28.7 ± 0.1	313	C	[1980MAJ/SVO]
	V		27.8 ± 0.1	328	C	[1980MAJ/SVO]
	V		26.8 ± 0.1	343	C	[1980MAJ/SVO]
	V	(227–318)	34.3	242		[1965KUD/SAV]
	V	(222–329)	33.2	237	A	[1987STE/MAL, 1963BOT/SEI, 1970DYK]
$C_2HBrClF_3$	[354-06-3]	1-bromo-2-chloro-1,1,2-trifluoroethane				
	FUS		4.38	146.2		[1996DOM/HEA, 1984GOL/KOL]
	V		30.0 ± 0.1	298	C	[1981MAJ/SVO]
	V		29.0 ± 0.1	313	C	[1981MAJ/SVO]
	V		28.1 ± 0.1	328	C	[1981MAJ/SVO]
	V		27.2 ± 0.1	343	C	[1981MAJ/SVO]
	V	(300–325)	30.2	313		[1981MAJ/SVO]
C_2HBrF_8S	[82390-50-9]	(1-bromo-2,2,2-trifluoroethyl)sulfur pentafluoride				
	V		32.0			[1982DEM/FOX]
$C_2HBr_2FO_2$	[353-99-1]	dibromofluoroacetic acid				
	V	(403–468)	60.2	468	A	[1987STE/MAL]
C_2HBr_3O	[115-17-3]	tribromoacetaldehyde				
	V	(291–447)	47.8	306	A	[1987STE/MAL, 1947STU]
C_2HCl	[593-63-5]	chloroacetylene				
	V	(204–238)	21.8	223	A	[1987STE/MAL]
	V	(205–237)	22.5	244		[1938BAS/EME, 2002MAN]
C_2HClF_2	[359-10-4]	1,1-difluoro-2-chloroethene				
	V		23.5	233	BG	[1955MEA/STA]
	V		21.4	273	BG	[1955MEA/STA]
	V		18.5	313	BG	[1955MEA/STA]
	V		14.1	353	BG	[1955MEA/STA]
C_2HClF_6OS	[20407-78-7]	*trans*-[(2-chloro-2-fluorovinyl)oxy] sulfur pentafluoride				
	V		36.8			[1968PLA/WIL]
C_2HClF_6OS	[20407-79-8]	*cis*-[(2-chloro-2-fluorovinyl)oxy] sulfur pentafluoride				
	V		34.3			[1968PLA/WIL]
C_2HClF_8OS	[20334-47-8]	(2-chloro-1,2,2-trifluoroethoxy) sulfur pentafluoride				
	V		33.3			[1968PLA/WIL]
C_2HClF_8S	[22756-13-4]	(1,1,2-trifluoro-2-chloroethyl) sulfur pentafluoride				
	V	(279–323)	30.2	294	A	[1987STE/MAL, 1999DYK/SVO, 1969BAN/HAS]
$C_2HClF_{12}O_2S$	[20563-90-0]	[(2-chloro-2,2-difluoroethylidiene)dioxy]bis(pentafluoro)sulfur				
	V		39.0			[1968PLA/WIL]
$C_2HCl_2F_3$	[306-83-2]	1,1,1-trifluoro-2,2-dichloroethane				
	FUS		5.51	145.7		[2002VAR/DRU]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		26.6 ± 0.3	298		[2002VAR/DRU]
	V	(243–448)	28.7	258	MM	[1992OGU/YAM]
$C_2HCl_2F_3$	[354-23-4]	1,1,2-trifluoro-1,2-dichlorochloroethane				
	FUS		7.08	135.7		[1999DRU/VAR]
	V		26.8 ± 0.3	298		[2002VAR/DRU]
C_2HCl_3	[79-01-6]	trichloroethylene				
	FUS		8.45	188.5		[1996DOM/HEA, 1984GOL/KOL]
	V	(297–360)	34.2	313		[1995AUC/GON]
	V		34.5 ± 0.1	298	C	[1980MAJ/SVA]
	V		33.8	313	C	[1980MAJ/SVA]
	V		33.2	328	C	[1980MAJ/SVA]
	V		32.3	343	C	[1980MAJ/SVA]
	V		31.5	358	C	[1980MAJ/SVA]
	V	(280–428)	34.6	295	A	[1987STE/MAL, 1970DYK]
	V	(290–359)	36.2	305		[1944MCD]
	V	(298–360)	35.6	313		[1913HER/RAT, 1984BOU/FRI]
	V	(298–360)	31.1	350		[1913HER/RAT]
$C_2HCl_3F_2$	[354-21-2]	1,1-difluoro-1,2,2-trichloroethane				
	V	(297–345)	32.8 ± 0.4	298		[2007VAR/DRU, 1997VAR/PAS]
	V		32.9 ± 0.1	298	C	[1997VAR/PAS]
$C_2HCl_3F_2$	[354-15-4]	1,2-difluoro-1,1,2-trichloroethane				
	V	(289–346)	33.0 ± 0.4	298		[2007VAR/DRU, 1997VAR/PAS]
	V		33.1 ± 0.1	298	C	[1997VAR/PAS]
$C_2HCl_3F_2O_3S$	[42087-88-7]	fluorosulfuric acid, 2-fluoro-1,1,2-trichloroethyl ester				
	V	(317–353)	36.6	332	A	[1987STE/MAL, 1999DYK/SVO, 1974CAF/SIC]
C_2HCl_3O	[75-87-6]	trichloroacetaldehyde				
	V	(235–371)	36.6	250	A	[1987STE/MAL, 1947STU]
$C_2HCl_3O_2$	[76-03-9]	trichloroacetic acid				
	FUS		5.88	330.7		[1991ACR, 1983WEA]
	FUS		5.90	332.3		[1895PIC]
	V	(326–473)	65.0	341	A	[1987STE/MAL, 1970DYK]
	V	(385–470)	57.2	400		[1959MCD/SHR]
C_2HCl_4FS	[2822-06-2]	(dichloromethyl)(fluorodichloromethyl) sulfide				
	V	(322–352)	46.5	337	A	[1987STE/MAL, 1999DYK/SVO]
C_2HCl_5	[76-01-7]	pentachloroethane				
	V	(274–434)	40.9	289	A	[1987STE/MAL]
	V	(298–435)	45.5	313		[1930NEL]
	V	(342–431)	36.9	420		[1913HER/RAT]
$C_2HFN_4O_2$	[221057-70-1]	1-fluoro-3-nitro-1*H*-1,2,4-triazole				
	SUB		79.7 ± 0.6	298		[2003MIR/LEB]
$C_2HFN_4O_2$	[501682-32-2]	1-fluoro-4-nitro-1*H*-1,2,3-triazole				
	SUB		79.5 ± 0.6	298		[2003MIR/LEB]
$C_2HF_3O_2$	[76-05-1]	trifluoroacetic acid				
	V	(285–345)	35.9	300	A	[1987STE/MAL, 1962KRE, 1970DYK, 1984BOU/FRI]
C_2HF_5	[354-33-6]	pentafluoroethane				
	FUS		2.25	172.6	AC	[1996LUE/MAG]
	V		22.8	175	C	[1999WEB]
	V		21.9	190	C	[1999WEB]
	V		20.9	205	C	[1999WEB]
	V		20.3	215	C	[1999WEB]
C_2HF_5O	[3822-68-2]	pentafluorodimethyl ether				
	V	(216–238)	22.3	239	I	[2001KUL/DES]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(229–331)	19.3	260	EB	[1996WEB/DEF2]
	V	(229–331)	17.6	280	EB	[1996WEB/DEF2]
	V	(229–331)	15.6	300	EB	[1996WEB/DEF2]
	V	(240–313)	20.4	255	A	[1992SAL/WAN]
C_2HF_6NOS	[34556-22-4]	*S*,*S*-bis(trifluoromethyl)sulfoximine				
	V		35.1	346	I	[1972SAU/SHR]
$C_2HF_6NS_2$	[763-24-6]	bis(trifluoromethane) sulphenimide				
	V	(243–293)	36.5	268		[1960EME/NAB]
C_2HF_6OP	[359-65-9]	phosphinous acid, bis(trifluoromethyl) ester				
	SUB	(233–251)	46.6	242		[1987STE/MAL, 1962GRI/BUR]
C_2HF_6OPS	[35814-49-4]	bis(trifluoromethyl) thiophospinic acid				
	V	(283–324)	38.3	298	A	[1987STE/MAL]
	V	(277–324)	37.4	300		[1972PIN/CAV]
C_2HF_6PS	[1486-19-7]	bis(trifluoromethyl)(mercapto)phosphine				
	V	(269–304)	30.7	286		[1964CAV/EME]
	V	(217–280)	32.9	265	A	[1987STE/MAL, 1999DYK/SVO, 1965BUR/GOS]
$C_2HF_6PS_2$	[18799-75-2]	phosphinodithioic acid, bis(trifluoromethyl) ester				
	SUB	(273–287)	41.9	280	A	[1987STE/MAL, 1968GOS/BUR]
C_2HF_7S	[58636-78-5]	(2,2-difluoroethenyl) pentafluorosulfur				
	V		27.7			[1978DEM/FOX]
C_2HF_9S	[63011-80-3]	pentafluoro (1,2,2,2-tetrafluoroethyl) sulfur				
	V		28.0			[1978DEM/FOX]
C_2H_2	[74-86-2]	acetylene				
	TRS		2.54	142.7		
	FUS		3.76	192.4		[1976MIS/RIE]
	SUB	(98–145)	23.5	130		[1987STE/MAL]
	SUB	(133–191)	21.8	162		[1960JON]
	SUB	(151–193)	25.2	193		[1956AMB]
	SUB	(130–189)	22.7	160	A	[1947STU]
	SUB	(89–169)	22.1	129	A	[1943BUR]
	SUB		23.0			[1907MCI]
	V	(258–308)	16.3	273	A	[1987STE/MAL]
	V	(192–308)	16.7	207	A	[1987STE/MAL]
	V	(192–225)	16.7	210	A	[1987STE/MAL]
	V		17.0	214		[1971WIL/ZWO]
	V	(215–308)	16.4	230		[1964AMB/TOW]
	V	(193–207)	16.8	200		[1956AMB, 1984BOU/FRI]
$C_2H_2Br_2$	[590-11-4]	*cis*-1,2-dibromoethylene				
	V	(299–351)	40.6	314	A	[1987STE/MAL, 1950NOY/NOY, 1970DYK]
$C_2H_2Br_2$	[590-12-5]	*trans*-1,2-dibromoethylene				
	V	(277–344)	35.2	310	A	[1987STE/MAL, 1970DYK, 1950NOY/NOY, 1984BOU/FRI]
$C_2H_2Br_2Cl_2$	[75-81-0]	1,2-dibromo-1,1-dichloroethane				
	V	(354–519)	45.9	369	A	[1987STE/MAL, 1970DYK]
$C_2H_2Br_2Cl_2$	[683-68-1]	1,2-dibromo-1,2-dichloroethane				
	FUS		8.3	206.3		[1991ACR, 1983WEA]
	V	(320–379)	45.9	335	A	[1987STE/MAL]
$C_2H_2Br_4$	[630-16-0]	1,1,1,2-tetrabromoethane				
	V	(331–473)	61.5	346	A	[1987STE/MAL, 1947STU]
$C_2H_2Br_4$	[79-27-6]	1,1,2,2-tetrabromoethane				
	V	(413–573)	56.9	428	A	[1987STE/MAL, 1970DYK]
C_2H_2ClFO	[359-14-8]	chloroacetyl fluoride				
	V	(273–333)	38.0	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2H_2ClFO	[359-06-8]	fluoroacetyl chloride				
	V	(273–333)	36.7	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_2H_2ClF_3O_2S$	[57169-80-9]	chlorosulfurous acid, 2,2,2-trifluoroethyl ester				
	V		36.0			[1975DEM/KOV2]
$C_2H_2ClF_7S$	[68010-35-5]	(2-chloro-2,2-difluoroethyl)pentafluorosulfur				
	V		32.9			[1978DEM/FOX]
$C_2H_2Cl_2$	[75-35-4]	1,1-dichloroethylene				
	FUS	(13–291)	6.51	150.59	AC	[1996DOM/HEA, 1959HIL/MCD]
	V	(245–305)	28.4	260	A	[1987STE/MAL, 1959HIL/MCD, 1970DYK]
$C_2H_2Cl_2$	[156-59-2]	*cis*-1,2-dichloroethylene				
	V	(332–495)	29.3	347	A	[1987STE/MAL]
	V	(273–334)	31.5	288	A	[1987STE/MAL, 1970DYK]
	V	(292–335)	31.6	307		[1951FLO/ALP]
	V	(273–356)	31.8	288		[1947KET/VAN]
$C_2H_2Cl_2$	[156-60-5]	*trans*-1,2-dichloroethylene				
	V	(321–473)	29.0	336	A	[1987STE/MAL]
	V	(273–319)	30.1	288		[1983MAC]
	V	(263–323)	30.4	278	A	[1987STE/MAL, 1970DYK]
	V	(287–325)	29.6	306		[1951FLO/ALP]
	V	(235–358)	31.4	250		[1947KET/VAN]
$C_2H_2Cl_2F_2$	[1649-08-7]	1,2-dichloro-1,1-difluoroethane				
	V	(323–493)	27.8	338	A	[1987STE/MAL]
$C_2H_2Cl_2F_2$	[1842-05-3]	1,2-difluoro-2,2-dichloroethane				
	FUS	(13–313)	8.19	163.0	AC	[1996DOM/HEA, 1992LEB/KUL]
$C_2H_2Cl_2F_6OS$	[20334-44-5]	(1,2-dichloro-2-fluoroethoxy)pentafluoro sulfur				
	V		38.8			[1968PLA/WIL]
$C_2H_2Cl_2F_6OS$	[20334-45-6]	(2,2-dichloro-2-fluoroethoxy)pentafluoro sulfur				
	V		38.5			[1968PLA/WIL]
$C_2H_2Cl_2O$	[79-04-9]	chloroacetyl chloride				
	V	(253–379)	45.0	268	A	[1987STE/MAL, 1970DYK]
	V	(301–380)	40.8	316		[1959MCD/SHR]
	V	(290–373)	44.1	305		[1935KIR/POP]
$C_2H_2Cl_2O_2$	[79-43-6]	dichloroacetic acid				
	FUS		12.34	286.5		[1996DOM/HEA, 1961GLA/TIM]
	FUS		U7.64	284.0		[1996DOM/HEA, 1895PIC]
	V	(317–468)	55.7	332	A	[1987STE/MAL, 1947STU]
$C_2H_2Cl_4$	[630-20-6]	1,1,1,2-tetrachloroethane				
	V		41.1 ± 0.2	298		[1978GUN/HEA]
	V	(316–447)	40.1	331	A	[1987STE/MAL, 1970DYK]
	V	(332–403)	39.2	347		[1949DRE/SHR, 1949DRE/MAR]
$C_2H_2Cl_4$	[79-34-5]	1,1,2,2-tetrachloroethane				
	FUS		10.10	231.0	DSC	[2013NEG/BAR]
	TRS		0.54	207.3		
	FUS		9.17	230.8		[1996DOM/HEA, 1982KOS/KOL]
	V	(343–418)	42.5	358	EB	[2006TEO/BAR]
	V	(377–419)	40.4	392	A	[1987STE/MAL]
	V	(371–419)	40.8	394		[1984CAS/FRA]
	V		44.7	313	C	[1980MAJ/SVA]
	V		43.8	328	C	[1980MAJ/SVA]
	V		42.8	343	C	[1980MAJ/SVA]
	V		41.8	358	C	[1980MAJ/SVA]
	V	(377–418)	40.1	398		[1978SUN/VIS]
	V		39	415		[1977RAO/VIU]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		45.8 ± 0.2	298	C	[1972LAY/WAD]
	V	(328–464)	41.9	343	A	[1987STE/MAL, 1970DYK]
	V	(298–403)	47.7	313		[1950MAT/SUM]
	V	(304–419)	45.7	319		[1930NEL]
$C_2H_2Cl_4S$	[51174-93-7]	bis(dichloromethyl) sulfide				
	V	(355–462)	47.6	370	A	[1987STE/MAL]
C_2H_2FN	[503-20-8]	fluoroacetonitrile				
	V	(273–333)	38.1	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_2H_2F_2$	[75-38-7]	1,1-difluoroethene				
	V		13.2	233	BG	[1955MEA/STA]
	V		9.5	273	BG	[1955MEA/STA]
$C_2H_2F_3NO$	[354-38-1]	trifluoroacetamide				
	TRS	(78–404)	5.58	336.9		
	TRS	(78–404)	11.5	347.6		
	FUS	(78–404)	1.34	388.9	AC	[2000DI/TAN]
	SUB	(288–329)	81.0	302	A, I	[1987STE/MAL, 1978BER/SPI]
	SUB	(288–329)	77.7 ± 1.4	298	I	[1978BER/SPI]
$C_2H_2F_4$	[811-97-2]	1,1,1,2-tetrafluoroethane				
	TRS		3.62	124.1		
	FUS		2.01	169.4		[1999ZHE/KAT]
	V	(221–246)	23.7	249	I	[2001KUL/DES]
	V	(279–315)	19.6			[1998WIL/LIU]
	V		26.4	180		[1998BLA/KLI]
	V		25.0	200		[1998BLA/KLI]
	V		23.8	220		[1998BLA/KLI]
	V		22.7	240		[1998BLA/KLI]
	V	(279–363)	22.0	294		[1992ZHU/WU]
$C_2H_2F_4O_2S$	[75988-14-6]	fluorosulfurous acid, 2,2,2-trifluoroethyl ester				
	V		33.6			[1975DEM/KOV2]
$C_2H_2F_6P_2$	[462-57-7]	1,2-bis-(trifluoromethyl) diphosphine				
	V	(233–292)	33.8	277	A, SG	[1987STE/MAL, 1958MAH/BUR]
$C_2H_2F_8S$	[65227-29-4]	pentafluoro (2,2,2-trifluoroethyl) sulfur				
	V		29.3			[1978DEM/FOX]
$C_2H_2I_2$	[590-26-1]	*cis*-1,2-diiodoethylene				
	V	(302–425)	46.5	317	A	[1987STE/MAL, 1970DYK, 1950NOY/NOY]
$C_2H_2I_2$	[590-27-2]	*trans*-1,2-diiodoethylene				
	SUB	(253–265)	40.7	258	ME	[1933BRO/FRA, 1960JON, 1987STE/MAL]
	V	(350–403)	42.3	365	A	[1987STE/MAL, 1970DYK, 1950NOY/NOY]
$C_2H_2N_4O_3$	[932-64-9]	5-nitro-1,2,4-triazol-3-one				
	SUB	(478–523)	147	500	DTA	[2014CUD/POD]
C_2H_2O	[463-51-4]	ketene				
	V	(159–224)	20.4 ± 0.1	209	A, MM	[1987STE/MAL, 1969RUE]
$C_2H_2O_4$	[144-62-7]	oxalic acid (anhydrous)				
	FUS		3.42	370	DSC	[2010BOO/BAR]
	SUB		75 ± 19		ME, MS	[2009BOO/MAR]
	SUB (α)	(303–328)	93.4	316	A	[1987STE/MAL]
	SUB (β)	(310–325)	93.3	318	A	[1987STE/MAL]
	SUB (α)		98.5			[1983DEW/BOW]
	SUB (β)		92.5			[1983DEW/BOW]
	SUB (α)	(303–328)	93.7 ± 1.3	298	TE	[1975DEK/VAN]
	SUB (orthorhomic)	(311–325)	97.9 ± 2.2	318		[1953BRA/COT, 1960JON]
	SUB (monoclinic)	(311–323)	93.3	317		[1953BRA/COT, 1960JON]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(292–320)	61.8	306	A	[1947GRA]
	SUB	(333–378)	90.6		GS	[1926NOY/WEB]
C_2H_3Br	[593-60-2]	vinyl bromide				
	V	(224–319)	27.3	239	A	[1987STE/MAL, 1970DYK]
	V	(186–289)	24.8	274		[1937GUY/SCH, 1984BOU/FRI]
	V	(207–285)	26.9	270		[1934MEH, 1984BOU/FRI]
C_2H_3BrO	[506-96-7]	acetyl bromide				
	V	(289–334)	29.5	304	A	[1987STE/MAL]
	V	(275–333)	31.4	290		[1969DEV/ONE]
$C_2H_3BrO_2$	[79-08-3]	bromoacetic acid				
	FUS		13.9	319.2	DSC	[2001LAG/DIO]
	SUB		83.5 ± 3.0	298	ME	[2001LAG/DIO]
	SUB		84.0 ± 3.0	280	ME	[2001LAG/DIO]
	V	(327–481)	57.2	342	A	[1987STE/MAL]
$C_2H_3Br_3$	[78-74-0]	1,1,2-tribromoethane				
	FUS		9.11	244		[1991ACR, 1983WEA]
	V	(368–511)	50.5	383	A	[1987STE/MAL, 1970DYK]
	V	(305–461)	52.9	321		[1947STU]
C_2H_3Cl	[75-01-4]	vinyl chloride				
	FUS	(60–300)	4.92	119.3		[1996DOM/HEA, 1967LEB/RAB]
	V	(243–288)	22.7	265		[1967DAN/GOL]
	V	(213–273)	22.9	258		[1967HAC/MAT]
	V	(209–260)	23.3	245	A	[1987STE/MAL, 1959MCD/SHR, 1970DYK]
	V	(244–333)	20.1	298		[1927DAN/BAR, 2002MAN]
$C_2H_3ClF_2$	[75-68-3]	1-chloro-1,1-difluoroethane				
	FUS		2.69	142.4		[1996DOM/HEA, 1937PER]
	V	(225–285)	24.2	240	EB	[1993SIL/WEB]
	V	(248–390)	22.7	263	A	[1987STE/MAL, 1970DYK, 1955MEA/STA]
	V	(248–390)	24.0	233	BG	[1955MEA/STA]
	V	(248–390)	21.9	273	BG	[1955MEA/STA]
	V	(248–390)	19.2	313	BG	[1955MEA/STA]
	V	(248–390)	15.4	353	BG	[1955MEA/STA]
$C_2H_3ClF_3N$	[16276-45-2]	*N*-chloro-*N*,1,1-trifluoroethanamine				
	V	(220–294)	30.8	279	BG	[1987STE/MAL, 1967LUS]
$C_2H_3ClF_3P$	[4669-76-5]	chloromethyl(trifluoromethyl)phosphine				
	V	(236–294)	30.9	279	A	[1987STE/MAL, 1966BUR/JOS]
C_2H_3ClO	[75-36-5]	acetyl chloride				
	V	(273–323)	24.5	288	A	[1987STE/MAL]
	V	(267–324)	31.5	282	A	[1987STE/MAL, 1959MCD/SHR, 1970DYK]
$C_2H_3ClO_2$	[79-11-8]	chloroacetic acid				
	FUS		16.3	334.8	DSC	[2001LAG/DIO]
	FUS		12.35		DSC	[1992SHA/SHA]
	FUS (α)		12.28	334.4		[1983WEA, 1991ACR]
	FUS (β)		13.88	329.2		[1983WEA, 1991ACR]
	FUS (α)		16.3	334.3		[1996DOM/HEA, 1895PIC]
	FUS (β)		13.93	329.2		[1996DOM/HEA, 1895PIC]
	SUB		82.2 ± 0.9	298	ME	[2001LAG/DIO]
	SUB		82.7 ± 0.9	282	ME	[2001LAG/DIO]
	SUB		75.3 ± 4.2			[1927STE/JOH, 1949DRE/MAR, 1949DRE/SHR, 1970COX/PIL]
	V	(336–463)	61.1	351	A	[1987STE/MAL]
	V	(377–463)	56.8	392	A	[1987STE/MAL, 1959MCD/SHR, 1970DYK]
	V	(396–460)	55.7	411		[1949DRE/SHR, 1949DRE/MAR]
$C_2H_3Cl_2F$	[1717-00-6]	1,1-dichloro-1-fluoroethane				

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(250–450)	28.7	265		[1997DUA/HWA]
	V	(270–312)	27.8	285	EB	[1992WEB]
$C_2H_3Cl_3$	[71-55-6]	1,1,1-trichloroethane				
	TRS	(11–450)	7.49	224.8		
	FUS	(11–450)	2.35	243.1	AC	[1973AND/COU, 1996DOM/HEA]
	TRS		5.13	220.5		
	FUS		1.89	239.2	DSC	[1970SIL/RUD]
	TRS		0.21	205		
	TRS		7.47	223.6		
	FUS		1.88	240.1		[1996DOM/HEA, 1950CRO/SMY2]
	TRS		7.47	224.2		
	FUS		1.88	240.2		[1944RUB/LEV]
	V	(295–372)	32.3	310	A	[1987STE/MAL]
	V	(349–408)	30.5	364	A	[1987STE/MAL]
	V	(399–487)	29.4	414	A	[1987STE/MAL]
	V	(479–545)	29.5	494	A	[1987STE/MAL]
	V		32.5 ± 0.1	298	C	[1980MAJ/SVA]
	V		31.8	313	C	[1980MAJ/SVA]
	V		30.9	328	C	[1980MAJ/SVA]
	V		30.1	343	C	[1980MAJ/SVA]
	V		29.2	358	C	[1980MAJ/SVA]
	V	(335–377)	30.8	350		[1979SUN/VIS]
	V		32.4	344		[1977RAO/VIU]
	V	(196–298)	37.6	211		[1973AMB/SPR]
	V		31.5	315	C	[1973AND/COU]
	V		30.4	335	C	[1973AND/COU]
	V		29.7	347	C	[1973AND/COU]
	V		32.5 ± 0.1	298	C	[1972LAY/WAD, 1971MAN/RIN]
	V		32.4	298		[1972HU/SIN]
	V	(268–290)	33.4	279		[1944RUB/LEV]
	V		33.4 ± 0.1	284	C	[1944RUB/LEV]
$C_2H_3Cl_3$	[79-00-5]	1,1,2-trichloroethane				
	FUS		11.38	237.1		[1996DOM/HEA, 1950CRO/SMY2]
	V	(316–384)	40.1 ± 0.6	298		[2007VAR/DRU]
	V	(316–384)	38.6	331	A	[1987STE/MAL]
	V		40.2 ± 0.1	298	C	[1980MAJ/SVA]
	V		39.3	313	C	[1980MAJ/SVA]
	V		38.5	328	C	[1980MAJ/SVA]
	V		37.5	343	C	[1980MAJ/SVA]
	V		36.6	358	C	[1980MAJ/SVA]
	V		40.3 ± 0.1	298	C	[1972LAY/WAD]
	V	(302–428)	38.2	317		[1987STE/MAL, 1970DYK]
	V		40.0	298		[1957WIL/HAR]
	V	(323–386)	38.3	338		[1949DRE/SHR, 1949DRE/MAR]
$C_2H_3Cl_3O$	[115-20-8]	2,2,2-trichloroethanol				
	FUS		10.05	290.6		[1997JEN/SAN]
$C_2H_3Cl_3O_2$	[302-17-0]	chloral hydrate				
	SUB	(263–319)	50.9	291	A	[1947STU]
	V	(300–348)	38.4	324	EB	[1994WIB/MOR]
	V	(325–370)	49.6	340	A	[1987STE/MAL]
	V	(263–369)	51.5	278		[1947STU]
C_2H_3F	[75-02-5]	vinyl fluoride				
	V	(124–201)	17.1	162		[1966KRE]
	V	(124–201)	16.6	186	A	[1987STE/MAL, 1947STU]
$C_2H_3FN_2O_5$	[17003-75-7]	2-fluoro-2,2-dinitroethanol				
	SUB		55.6 ± 2.1			[1977PED/RYL, 1968BAR/CAR]
	V	(313–373)	55.7	343		[1968BAR/CAR]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2H_3FO	[557-99-3]	acetyl fluoride				
	V	(195–281)	14.3	266	A	[1987STE/MAL]
$C_2H_3FO_2$	[144-49-0]	fluoroacetic acid				
	V	(293–443)	52.3	308	A	[1987STE/MAL, 1970DYK]
	V	(293–443)	53.6	308	T	[1955JAS/MIL]
$C_2H_3FO_2$	[78948-09-1]	acetyl hypofluorite				
	V	(209–253)	35.6 ± 2.4	231		[1985APP/MEN]
$C_2H_3F_2P$	[51130-03-1]	vinyldifluorophosphine				
	V	(176–250)	26.1	213		[1974LIN/CEN]
$C_2H_3F_3$	[420-46-2]	1,1,1-trifluoroethane				
	FUS		6.19	161.9		[1991ACR, 1983WEA]
	V	(236–280)	18.1	240	EB	[1996WEB/DEF]
	V	(236–280)	17.5	250	EB	[1996WEB/DEF]
	V	(236–280)	16.7	260	EB	[1996WEB/DEF]
	V	(236–280)	15.9	270	EB	[1996WEB/DEF]
	V		18.9	233	BG	[1955MEA/STA]
	V		16.4	273	BG	[1955MEA/STA]
	V		13.8	303	BG	[1955MEA/STA]
	V		8.7	333	BG	[1955MEA/STA]
	V	(174–226)	20.5	211		[1944RUS/GOL]
	V		19.2 ± 0.1	224	C	[1944RUS/GOL]
$C_2H_3F_3N_2$	[690-21-1]	1,1,1-trifluoroazomethane				
	V	(240–273)	26.4	258	A	[1987STE/MAL, 1965DIN/HAS]
$C_2H_3F_3O$	[421-14-7]	trifluoromethyl methyl ether				
	V	(233–313)	22.5	248	A	[1992SAL/WAN]
$C_2H_3F_3O$	[75-89-8]	2,2,2-trifluoroethanol				
	V	(276–302)	45.9	289	A	[1987STE/MAL]
	V	(298–328)	44.0	313	A	[1987STE/MAL, 1970DYK]
	V	(298–328)	41.5	313	MM	[1973ROC/SYM]
	V	(273–298)	44.5	285	MM	[1967MEE/GOL]
$C_2H_3F_3O_2S$	[30957-42-7]	methanesulfinic acid, trifluoromethyl ester				
	V		31.8	346		[1971SAU/SHR2]
$C_2H_3F_5O_3S$	[60672-60-8]	(ethaneperoxoato) pentafluoro sulfur				
	V	(217–377)	36.2	297		[1999DYK/SVO, 1976HOP/DES]
$C_2H_3F_5S$	[865-54-3]	vinylsulfur pentafluoride				
	V		28.5	314		[1961CAS/RAY2]
C_2H_3IO	[507-02-8]	acetyl iodide				
	V	(276–302)	37.1	289	A	[1987STE/MAL, 1969DEV/ONE]
$C_2H_3IO_2$	[64-69-7]	iodoacetic acid				
	FUS		15.5	355.1	DSC	[2001LAG/DIO]
	SUB		86.5 ± 1.0	298	ME	[2001LAG/DIO]
	SUB		87.2 ± 1.0	279	ME	[2001LAG/DIO]
C_2H_3N	[75-05-8]	acetonitrile				
	FUS		8.00	228.2	DSC	[2015SOL/ROD]
	TRS	(15–300)	0.9	216.9		
	FUS	(15–300)	8.17	229.3		[1996DOM/HEA, 1965PUT/MCE]
	FUS		8.91	229.2		[1935TIM]
	V	(307–354)	33.0	325		[2013ZHA/LV]
	V	(354–462)	32.5	370	EB	[2004EWI/SAN, 2010WAN/ZEN]
	V	(290–362)	33.8	305	EB	[2004EWI/SAN]
	V	(302–353)	33.0	298	EB	[2004ANT/GAL]
	V		33.0	298		[1983AN/MAN]
	V	(288–362)	33.8	303		[1974DOJ/HEI]
	V	(314–355)	33.3	329	A, EB	[1987STE/MAL, 1971MEY/REN]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(299–343)	34.8	315	BG	[1971HAL/BAL]
	V		32.9 ± 0.1	298	C	[1970HOW/WAD]
	V	(273–323)	34.2	288		[1968KUS/MIS]
	V	(280–300)	33.9	290		[1965PUT/MCE]
	V		33.3	298	C	[1965PUT/MCE]
	V		32.9	298	C	[1950IWA, 1970HOW/WAD]
	V		33.6	298		[1933HEI, 1970HOW/WAD]
	V		31.1	387	C	[1901KAH2]
C_2H_3NO	[624-83-9]	methyl isocyanate				
	FUS		7.45	178.5	DSC	[2013DAV/KIL]
	V		28.7 ± 0.1	298	C	[2013DAV/KIL]
	V	(265–308)	29.9	280	A	[1987STE/MAL]
	V	(253–310)	31.7	268	A	[1987STE/MAL]
$C_2H_3NO_3$	[471-47-6]	oxalic acid, monoamide				
	SUB		108.9 ± 2.1	298	ME	[1988NUN/BAR]
	SUB	(355–363)	107.9	359	ME	[1953BRA/CLE2, 1960JON, 1987STE/MAL]
$C_2H_3NO_5$	[2278-22-0]	acetyl nitro peroxide				
	V	(277–330)	34.6	292	A	[1987STE/MAL]
	V	(277–330)	38.1	303		[1978KAC/SOL]
C_2H_3NS	[556-64-9]	methyl thiocyanate				
	V	(259–406)	40.7	274	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
C_2H_3NS	[556-61-6]	methyl isothiocyanate				
	SUB	(238–293)	31.5	266	A	[1947STU]
	V	(309–392)	37.4	324	A	[1987STE/MAL, 1999DYK/SVO]
	V	(283–323)	37.3	298		[1935BAU/BUR, 1984BOU/FRI]
$C_2H_3N_3$	[288-88-0]	1,2,4-triazole				
	FUS		16.1	393.5	DSC	[1996DOM/HEA, 1989HIL/MOU]
	FUS		10.76	393.3		[1999SAB/PER]
	SUB		80.7 ± 0.5	298	C	[1999SAB/PER]
	SUB		84.0 ± 0.7	298	ME	[1989JIM/ROU]
	SUB		80.6 ± 0.5			[1985SKI/PIL]
	SUB		84.1		ME	[1961ZIM/GEI]
$C_2H_3N_3O_6$	[595-86-8]	1,1,1-trinitroethane				
	TRS		4.6	311.7		
	FUS		11.72	329.2	DSC	[1969ROS, 1969ROS/HOL]
	SUB		72.0 ± 8.8	298		[1999MIR/VOR]
$C_2H_3N_3O_7$	[918-54-7]	2,2,2-trinitroethanol				
	TRS		17.99	312.5		
	FUS		2.72	344.9	DSC	[1969ROS/HOL]
C_2H_4	[74-85-1]	ethylene				
	FUS		3.35	104		[1996DOM/HEA, 1937EGA/KEM]
	FUS		2.92	103.6		[1928EUC/HAU]
	SUB	(77–103)	15.0			[1982MEN]
	SUB	(99–104)	19.4	99		[1977BIG/FUK]
	SUB	(79–104)	18.4	91.5	A, MS	[1987STE/MAL, 1951TIC/LOS]
	V	(252–282)	14.0	267	A	[1987STE/MAL]
	V	(170–273)	13.7	258	A	[1987STE/MAL]
	V	(120–170)	14.4	155	A	[1987STE/MAL]
	V	(169–211)	13.7	196	A	[1987STE/MAL]
	V	(209–254)	13.6	239	A	[1987STE/MAL]
	V	(104–119)	15.7	111		[1982MEN]
	V	(120–182)	14.1	167	A	[1987STE/MAL, 1970DYK]
	V	(150–190)	14.0	175		[1950MIC/WAS]
	V	(148–174)	14.3	161		[1940LAM/ROP]
	V	(124–171)	14.4	156		[1937EGA/KEM]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		13.5	169	C	[1937EGA/KEM]
C_2H_4BrCl	[593-96-4]	1-bromo-1-chloroethane				
	V	(290–356)	33.1	305	A	[1987STE/MAL]
	V	(237–356)	46.7	252		[1947STU]
C_2H_4BrCl	[107-04-0]	1-bromo-2-chloroethane				
	TRS	(90–320)	3.1	182		
	FUS	(90–320)	9.62	256.4	CC	[1996DOM/HEA, 1939RAI]
	V		37.6 ± 0.1	308	C	[1992SVO/KUB2]
	V		37.3 ± 0.1	315	C	[1992SVO/KUB2]
	V		36.9 ± 0.1	323	C	[1992SVO/KUB2]
	V		36.6 ± 0.1	330	C	[1992SVO/KUB2]
	V		36.4 ± 0.1	338	C	[1992SVO/KUB2]
	V	(244–379)	39.5			[1947STU]
$C_2H_4Br_2$	[557-91-5]	1,1-dibromoethane				
	V	(301–421)	39.6	316	E	[1987STE/MAL, 1956MAN, 1970DYK]
$C_2H_4Br_2$	[106-93-4]	1,2-dibromoethane				
	TRS		1.94	249.5		
	FUS		10.94	283.0		[1996DOM/HEA, 1940PIT2]
	TRS	(90–320)	1.88	250.6		
	FUS	(90–320)	10.84	283.1	CC	[1996DOM/HEA, 1939RAI]
	SUB	(229–248)	54.8	239		[1948NIT/SEK]
	SUB	(251–281)	49.8	258	A	[1948NIT/SEK, 1947STU, 1987STE/MAL]
	SUB		58.8 ± 0.8			[1944ODA/MID]
	V	(331–426)	41.7 ± 0.8	298		[2007VAR/DRU]
	V	(283–323)	42.4	298		[1994GRA/PER]
	V	(325–403)	41.7 ± 0.8	298		[1993VAR/PUC]
	V		41.7 ± 0.1	308	C	[1992SVO/KUB2]
	V		41.7 ± 0.1	315	C	[1992SVO/KUB2]
	V		41.6 ± 0.1	323	C	[1992SVO/KUB2]
	V		41.5 ± 0.1	330	C	[1992SVO/KUB2]
	V		41.4 ± 0.1	338	C	[1992SVO/KUB2]
	V	(283–317)	41.8	298	A	[1987STE/MAL, 1948NIT/SEK]
	V	(316–488)	40.0	331	A	[1987STE/MAL]
	V	(404–578)	37.4	419	A	[1987STE/MAL]
	V	(285–298)	49.6	291	MM, A	[1957CAL]
	V	(325–404)	39.6	340		[1949DRE/SHR, 1949DRE/MAR]
	V	(246–404)	31.1	261		[1947STU]
C_2H_4ClF	[762-50-5]	1-chloro-2-fluoroethane				
	V	(288–327)	32.1	303	A	[1987STE/MAL]
$C_2H_4ClN_3$	[53422-48-3]	1-chloro-2-azidoethane				
	V	(273–333)	43.8	288	A	[1987STE/MAL, 1948RED/CHA5]
$C_2H_4Cl_2$	[75-34-3]	1,1-dichloroethane				
	FUS	(14–294)	7.87	176.2		[1991ACR, 1996DOM/HEA, 1956LI/PIT]
	V	(326–345)	33.5	336		[1987GAR/TRE]
	V	(323–535)	29.2	338	A	[1987STE/MAL]
	V	(363–535)	28.2	378	A	[1987STE/MAL]
	V		30.6 ± 0.1	298	C	[1972LAY/WAD]
	V	(234–290)	31.9	275		[1956LI/PIT]
	V		31.0	293	C	[1956LI/PIT]
	V	(213–330)	34.4	228		[1947STU]
	V	(258–365)	32.2	273	E	[1987STE/MAL, 1956MAN, 1970DYK]
$C_2H_4Cl_2$	[107-06-2]	1,2-dichloroethane				
	FUS		8.74	237.3	DTA	[1994TAN/SAB3]
	FUS		8.83	237.2		[1996DOM/HEA, 1940PIT2, 1991ACR]
	TRS	(90–320)	2.85	175.0		
	FUS	(90–320)	8.75	237.6	CC	[1996DOM/HEA, 1939RAI]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(299–356)	35.2 ± 0.4	298		[2007VAR/DRU]
	V		34.4	298	GC	[1994CAR/LAY]
	V		35.1 ± 0.1	298	C	[1989AN/HU]
	V	(356–558)	31.1	371	A	[1987STE/MAL]
	V	(279–374)	34.8	294	A	[1987STE/MAL]
	V	(368–524)	31.1	383	A	[1987STE/MAL]
	V	(523–561)	40.8	538	A	[1987STE/MAL]
	V	(301–357)	34.7	316		[1982GUT/KNA]
	V		35.2 ± 0.1	298	C	[1980MAJ/SVA]
	V		34.4	313	C	[1980MAJ/SVA]
	V		33.6	328	C	[1980MAJ/SVA]
	V		32.7	343	C	[1980MAJ/SVA]
	V		31.9	358	C	[1980MAJ/SVA]
	V	(279–434)	34.8	294		[1987STE/MAL, 1970DYK]
	V		35.1 ± 0.1	298	C	[1968WAD]
	V		34.7			[1956KIR, 1938EFT]
	V	(243–372)	37.5	258		[1929PEA/PET]
	V		32.0 ± 0.1	355	C	[1926MAT]
$C_2H_4Cl_2S$	[3592-44-7]	bis(chloromethyl) sulfide				
	V	(320–430)	45.1	335	A	[1987STE/MAL, 1999DYK/SVO]
$C_2H_4D_2O_2$	[2219-52-5]	dihydroxyethane-d_2				
	FUS	(80–300)	9.75	258.8	AC	[1967NIK/RAB]
$C_2H_4FNO_3$	[763-97-3]	2-fluoroethyl nitrate				
	V	(273–333)	38.3	288	GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_2H_4F_2$	[75-37-6]	1,1-difluoroethane				
	FUS		1.57	154.6		[1998MAG]
	V	(218–248)	22.7	249	I	[2001KUL/DES]
	V	(303–333)	22.1	318		[1999LIM/PAR]
	V	(219–273)	23.3	234	EB	[1993SIL/WEB]
	V	(250–386)	21.8	265	A	[1987STE/MAL]
	V	(193–275)	22.1	260	A, E	[1987STE/MAL, 1970DYK, 1956MAN]
	V		21.8	233	BG	[1955MEA/STA]
	V		20.4	273	BG	[1955MEA/STA]
	V		17.8	313	BG	[1955MEA/STA]
	V		12.9	353	BG	[1955MEA/STA]
	V	(161–247)	23.8	232		[1947STU]
$C_2H_4F_3NS$	[62067-12-3]	1,1,1-trifluoro-*N*-methyl methanesulfenamide				
	V	(223–294)	33.6	279	A	[1987STE/MAL, 1960EME/NAB]
$C_2H_4F_3OP$	[6395-71-7]	(trifluoromethyl)phosphinous acid, methyl ester				
	V	(194–291)	29.4	276	A	[1987STE/MAL, 1977BUR]
$C_2H_4F_3OP$	[26348-89-0]	methyl(trifluoromethyl)phosphine oxide				
	V	(305–322)	50.7	313		[1970BUR/KAN]
$C_2H_4F_6OS$	[870-28-0]	pentafluoro(2-fluoroethoxy) sulfur				
	V	(290–364)	39.3	305	A	[1987STE/MAL, 1962WIL/CAD, 1999DYK/SVO]
$C_2H_4I_2$	[624-73-7]	1,2-diiodoethane				
	SUB		65.7 ± 4.1			[1954ABR/DAV, 1970COX/PIL]
	SUB	(288–328)	65.7	308		[1929MOO/LUD]
	V		49.8	298	GC	[1994CAR/LAY]
	V	(371–526)	47.7	386	A	[1987STE/MAL, 1970DYK]
$C_2H_4N_2O_2$	[628-36-4]	diformylhydrazine				
	SUB	(340–373)	205.1 ± 0.7	356	ME	[1980LEB/KAL]
	SUB	(370–403)	100.8			[1956SUZ/ONI, 1960JON]
$C_2H_4N_2O_2$	[471-46-5]	oxamide				
	TRS		1.88	356.2		
	TRS		3.56	455.5		

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		6.24	494.3		
	FUS		Decomposed prior to melting		DSC	[2006BAD/DEL]
	SUB		117.3 ± 1.2	298	TE, ME	[1988NUN/BAR]
	SUB	(370–398)	115.8	387	TE, ME	[1983DEW/VAN]
	SUB	(353–369)	113	361	ME	[1953BRA/CLE, 1960JON, 1970COX/PIL]
$C_2H_4N_2O_4$	[600-40-8]	1,1-dinitroethane				
	V	(303–363)	51.0	318	A	[1987STE/MAL]
$C_2H_4N_2O_6$	[628-96-6]	ethylene glycol dinitrate				
	V	(283–535)	70.5	298	A	[1987STE/MAL]
	V	(343–465)	55.3	358	A	[1987STE/MAL]
	V	(240–298)	68.3	255	GS	[1987STE/MAL, 1977PEL]
	V	(278–390)	62.3 ± 0.4			[1941BEL]
	V	(278–390)	61.3	334		[1940BEL]
	V	(293–323)	68.6 ± 0.4			[1938BRA]
$C_2H_4N_2S_2$	[628-96-6]	dithiooxamide				
	SUB		103.8	298	TE, ME	[1988NUN/BAR]
	SUB	(345–372)	105.1	361	TE, ME	[1983DEW/VAN]
	SUB	(360–378)	105.4	369	ME	[1953BRA/CLE2, 1960JON, 1987STE/MAL]
$C_2H_4N_4$	[461-58-5]	dicyandiamide				
	FUS	(330–573)	25.0	482.7	DSC	[2014ZHA/QIA]
	TRS	(80–370)	2.98	269.5	AC	
	FUS	(330–500)	22.96	487.6	DSC	[1997ZHA/TAN]
	SUB	(420–450)	128.7	436	TE, ME	[1983DEW/VAN]
$C_2H_4N_4$	[16681-77-9]	1-methyltetrazole				
	FUS		15.7	315		[1990KOZ/SIM3]
	SUB	(282–311)	86.7 ± 1.9		ME	[1990KOZ/SIM]
$C_2H_4N_4$	[16681-78-0]	2-methyltetrazole				
	FUS		12.37	286		[1990KOZ/SIM3]
$C_2H_4N_4$	[4076-36-2]	5-methyltetrazole				
	FUS		16.0	418		[1990KOZ/SIM3]
	SUB	(323–418)	93.8 ± 0.5		ME	[1990KOZ/SIM]
$C_2H_4N_4$	[61-82-5]	1*H*-1,2,4-triazol-3-amine				
	FUS		21.93	428.3	DSC	[1990DON/DRE]
$C_2H_4N_4O_4$	[145250-81-3]	1,1-diamino-2,2-dinitroethene				
	TRS		6.31	387.2	DSC	[2006GAO/ZHA]
C_2H_4O	[75-07-0]	acetaldehyde				
	TRS	(13–300)	2.31	149.8		
	FUS	(13–300)	1.72	242.9	AC	[1996DOM/HEA, 1988LEB/VAS]
	V	(293–377)	26.0	308	A	[1987STE/MAL]
	V	(293–345)	26.3	308		[1977KIM/KIM]
	V	(272–294)	27.6	283	A	[1987STE/MAL, 1970DYK]
	V	(293–377)	26.9	298	EB	[1963BUL/SER, 2003VER/KRA2]
	V	(273–307)	27.0	307		[1950COL/POP]
	V		25.7 ± 0.1	292		[1949COL/DEV]
C_2H_4O	[75-21-8]	ethylene oxide (oxirane)				
	FUS		5.17	160.7		[1996DOM/HEA, 1949GIA/GOR]
	V	(283–385)	25.9	298	A	[1987STE/MAL]
	V	(239–284)	26.8	269	A	[1987STE/MAL, 1959MCD/SHR, 1970DYK]
	V	(223–284)	26.8	269	A	[1987STE/MAL, 1949GIA/GOR]
	V	(268–313)	26.9	290		[1937MOO/KAN]
C_2D_4O	[6552-57-4]	ethylene oxide – d_4 oxide				
	V	(230–273)	27.6	258		[1952LEI/MOR, 1984BOU/FRI]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2H_4OS	[507-09-5]	thioacetic acid				
	V	(307–360)	35.2	333		[1999DYK/SVO]
$C_2H_4O_2$	[64-19-7]	acetic acid				
	FUS		11.72	289.65	DSC	[2010HEN/CAM]
	FUS	(14–350)	11.72	289.7	AC	[1996DOM/HEA, 1982MAR/AND]
	FUS		10.83	289.8		[1911LOU/DUP]
	FUS		11.52	283.7		[1910MEY]
	FUS		11.13	290.1	SC	[1996DOM/HEA, 1895PIC]
	FUS		11.6	290.1		[1879PET, 1895PIC]
	FUS		11.1	290.1	SC	[1873BER, 1895PIC]
	SUB	(213–230)	67.3 ± 1	223	TE, ME	[1978CAL/CAL]
	SUB	(213–230)	70 ± 1	213	TE, ME	[1978CAL/CAL]
	V	(298–353)	42.1	313		[2011FAN/LI]
	V	(320–395)	40.9	335		[2001VER/VAZ]
	V	(345–383)	39.1	360	EB	[2001MUN/KRA]
	V	(303–378)	50.3	298	CGC	[2000VER2]
	V	(391–550)	37.9	406	A	[1987STE/MAL]
	V	(290–396)	42.0	305	A	[1987STE/MAL]
	V	(391–447)	38.7	406	A	[1987STE/MAL]
	V	(437–535)	38.1	452	A	[1987STE/MAL]
	V	(525–593)	38.8	540	A	[1987STE/MAL]
	V		43.0	308		[1983TAM/DRA]
	V	(289–392)	41.6	304	A	[1987STE/MAL, 1970DYK]
	V (monomer)		23.3 ± 0.1	298	C	[1970KON/WAD]
	V		51.6 ± 1.6	298	C	[1970KON/WAD]
	V	(325–391)	40.3	340		[1959MCD/SHR]
	V (monomer)		23.6	359	C	[1955WEL]
	V (monomer)		23.6	279	C	[1955WEL]
	V (monomer)		23.6	392	C	[1955WEL]
	V	(303–399)	41.6	318	MM	[1954POT/RIT]
$C_2D_4O_2$	[1186-52-3]	perdeuterioacetic acid				
	V	(298–398)	41.8	313	MM	[1954POT/RIT]
$(C_2H_4O_2)_2$		acetic acid dimer				
	SUB	(213–230)	70.2 ± 1	213	TE	[1978CAL/CAL]
	SUB	(213–230)	68.9 ± 1	213	ME	[1978CAL/CAL]
$C_2H_4O_2$	[107-31-3]	methyl formate				
	V	(279–305)	29.6	292	A	[1987STE/MAL]
	V	(305–443)	28.4	320	A	[1987STE/MAL]
	V		28.7 ± 0.1	293	C	[1976CIH/HYN]
	V		27.9 ± 0.1	305	C	[1976CIH/HYN]
	V		27.4 ± 0.1	313	C	[1976CIH/HYN]
	V		28.4	298	EB	[1974HIN/KLU, 2012SAM/NAZ]
	V	(261–305)	30.1	283	BG	[1971HAL/BAL]
	V	(294–304)	27.6	298		[1928NEL, 1984BOU/FRI, 2012SAM/NAZ]
	V		28.2 ± 0.3	304	C	[1926MAT]
	V		28.5 ± 0.3	298	C	[1926MAT, 2012SAM/NAZ]
$C_2H_4O_2$	[141-46-8]	hydroxyacetaldehyde				
	V	(273–304)	70 ± 5	288		[2010PET/REY]
$C_2H_4O_2S$	[68-11-1]	mercaptoacetic acid				
	V	(333–427)	56.8	348	A	[1987STE/MAL, 1999DYK/SVO]
$C_2H_4O_3$	[289-14-5]	ethylene ozonide				
	V	(273–289)	34.8	281	A	[1987STE/MAL, 1956GAR/SCH]
$C_2H_4O_3$	[79-14-1]	hydroxyacetic acid (glycolic acid)				
	FUS		19.3	351.3	DSC	[2010EME/VER2]
	SUB	(323–343)	92.6 ± 0.6	298	GS	[2010EME/VER2]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		74.6 ± 0.6	298	S-F	[2010EME/VER2]
	V	(350–375)	51.8	362	A	[1987STE/MAL]
$C_2H_4O_3$	[79-21-0]	peroxyacetic acid				
	V	(273–383)	44.2	288	A	[1987STE/MAL, 1970DYK, 1951EGE/EMT]
$C_2H_4O_3$	[7456-87-3]	methyl hydrogen carbonate				
	SUB	(204–237)	18.2 ± 1.6	220		[1973BEH/GAT]
$C_2H_4O_4$	[291-15-6]	1,2,4,5-tetroxane				
	SUB		11.19			[2003ROM/LEI]
C_2H_4S	[420-12-2]	ethylene sulfide				
	V	(291–361)	30.5	306	A	[1987STE/MAL, 1952GUT/SCO2, 1999DYK/SVO]
	V		30.3	298		[1971WIL/ZWO]
C_2H_5Br	[74-96-4]	ethyl bromide				
	V	(334–504)	26.9	349	A	[1987STE/MAL]
	V	(326–454)	26.6	341	A	[1987STE/MAL]
	V	(452–503)	31.0	467	A	[1987STE/MAL]
	V		27.6 ± 0.1	305	C	[1977SVO/MAJ]
	V		27.0 ± 0.1	312	C	[1977SVO/MAJ]
	V		26.2 ± 0.1	323	C	[1977SVO/MAJ]
	V	(225–333)	30.6	240	E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(301–348)	27.9	316		[1930ZMA, 1984BOU/FRI]
C_2H_5BrO	[540-51-2]	2-bromoethanol				
	V		54.1 ± 0.4	298	C	[2007BER/MIN]
C_2H_5Cl	[75-00-3]	ethyl chloride				
	FUS		4.45	134.8		[1991ACR, 1983WEA]
	V	(285–344)	25.1	300	A	[1987STE/MAL]
	V	(334–413)	24.4	349	A	[1987STE/MAL]
	V	(403–460)	24.4	418	A	[1987STE/MAL]
	V	(207–305)	27.8	222	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(218–285)	25.9	270		[1948GOR/GIA]
	V		24.9	288	C	[1932GRI/AWB]
	V		24.4	296	C	[1932GRI/AWB]
	V		24.8 ± 0.1	298	C	[1926YAT, 2002MAN]
	V		24.2	294		[1923JEN/SHO, 2002MAN]
	V		24.5	294		[1871REG, 2002MAN]
$C_2H_5ClFOPS$	[460-51-5]	ethyl chlorofluorothiophosphate				
	V		38.0			[1948BOO/MAR]
C_2H_5ClO	[107-07-3]	2-chloroethanol				
	V		48.3 ± 0.4	298	C	[2007BER/MIN]
	V	(328–401)	43.3	343	A	[1987STE/MAL]
	V	(323–363)	46.9	338		[1973GOT/MEN]
	V	(363–403)	39.1	378		[1973GOT/MEN]
	V	(269–401)	45.7	284		[1947STU]
C_2H_5ClO	[107-30-2]	methyl(chloromethyl) ether				
	V	(290–332)	32.2	305	A	[1987STE/MAL, 1966MAT/RAS]
$C_2H_5ClO_2S$	[594-44-5]	ethane sulfonyl chloride				
	V	(349–449)	47.7	364		[1999DYK/SVO]
	V	(233–263)	56.4	248	A	[1987STE/MAL, 1999DYK/SVO, 1963QUI/NOW]
$C_2H_5Cl_2OP$	[1066-50-8]	ethylphosphonic acid dichloride				
	V		42.7 ± 4.2			[1956NEA/WIL, 1982PIL/SKI]
$C_2H_5Cl_2OPS$	[1498-64-2]	ethyl dichlorothiophosphate				
	V		40.4			[1948BOO/MAR]
$C_2H_5Cl_2P$	[1498-40-4]	dichloroethyl phosphine				
	V	(313–385)	36.8	328	A	[1987STE/MAL]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2H_5F	[353-36-6]	ethyl fluoride				
	V	(200–235)	20.7	236	I	[2001KUL/DES]
	V	(275–353)	20.2	290	A	[1987STE/MAL]
	V	(235–280)	20.5	265	A	[1987STE/MAL]
	V	(343–375)	20.7	358	A	[1987STE/MAL]
	V	(170–255)	U4.2	240		[1975IWA/DAT]
	V	(173–251)	20.8	236	E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(156–241)	22.0	226		[1947STU]
C_2H_5FO	[371-62-0]	2-fluoroethanol				
	V	(273–333)	44.1	288	GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_2H_5FO_3S$	[371-69-7]	ethyl fluorosulfonate				
	V	(273–333)	38.5	288	GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_2H_5F_2N$	[758-18-9]	*N*,*N*-difluoroethylamine				
	V	(241–259)	27.3	250	A	[1987STE/MAL]
	V	(241–259)	25.7	288		[1960FRA]
$C_2H_5F_2OPS$	[460-53-7]	ethyl difluorothiophosphate				
	V		32.5			[1948BOO/MAR]
$C_2H_5F_3NP$	[4669-74-3]	methyl(trifluoromethyl) phosphinic acid amide				
	V	(238–294)	36.8	279		[1987STE/MAL, 1966BUR/JOS]
C_2H_5I	[75-03-6]	ethyl iodide				
	V	(313–353)	31.7	298	CGC	[1995CHI/HOS]
	V		31.9 ± 0.1	298	C	[1968WAD]
	V	(249–369)	33.6	264	E	[1987STE/MAL, 1961LI/ROS]
	V	(219–345)	34.7	234		[1947STU]
	V	(254–293)	32	278		[1944MIL2]
	V	(303–333)	31.7	318		[1929SMY/ENG]
C_2H_5IO	[151-56-4]	2-iodoethanol				
	V		57.0 ± 0.2	288	C	[2007BER/MIN]
C_2H_5N	[151-56-4]	aziridine				
	V	(274–303)	34.9	288	A	[1987STE/MAL, 1968CAB/CON]
C_2H_5NO	[107-29-9]	acetaldehyde oxime				
	V	(288–388)	48.0	303	A	[1987STE/MAL]
C_2H_5NO	[60-35-5]	acetamide				
	FUS		15.5	355.2	DSC	[1999SHA/BUD]
	FUS		15.5	354.1	DSC	[1989NIK/TRI]
	FUS		15.6	353.5	DSC	[1986EMO/NAU]
	FUS	(90–346)	15.6	353.3	AC	[1996DOM/HEA, 1983DEW/DEK]
	FUS		14.86		CCM	[1937HRY/SMO]
	FUS		16.4	355.5		[1914MUL, 1989NIK/TRI]
	SUB		78.5 ± 0.3			[1998PRI/HAW]
	SUB	(273–293)	77.8	284	TE, ME	[1983DEW/VAN]
	SUB		77.2	298		[1983DEW/VAN]
	SUB		78.7 ± 0.3			[1975BAR/PIL, 1977PED/RYL]
	SUB		80.3 ± 1	298		[1971MOR2]
	SUB		80.3 ± 1.3	298	C	[1965WAD]
	SUB	(298–349)	77.4 ± 0.4	323	GS	[1959DAV/JON2, 1987STE/MAL]
	SUB	(293–306)	U57.2	300		[1952AIH]
	V	(381–492)	63.8	396	A	[1987STE/MAL]
	V	(338–495)	60.9	353		[1947STU]
C_2H_5NO	[123-39-7]	*N*-methylformamide				
	TRS		1.23	228.1		
	FUS		10.44	270.6		[1999AHL/LOH]
	V	(340–440)	53.8	355	Static	[1996USH/SED]
	V	(340–440)	54.4 ± 1.3	298	Static	[1996USH/SED]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(310–391)	54.5	325	A	[1987STE/MAL]
	V		56.2	298	A	[1985BAR/CAS, 1986VAR]
	V	(369–472)	53.4	384	A	[1987STE/MAL, 1961HEI/ILA, 1970DYK]
$C_2H_5NO_2$	[109-95-5]	ethyl nitrite				
	V	(252–276)	25.7	264	A	[1987STE/MAL, 1937THO/DAI]
	V		27.8			[1934GOO]
$C_2H_5NO_2$	[598-55-0]	methyl carbamate				
	FUS		16.46	328.8	AC,DSC	[2010ZEN/LI]
	FUS		16.7	328.6		[1996DOM/HEA, 1976BER/BOU]
	SUB	(341–393)	53.0	360	EB	[2013XU/LI]
	SUB		73.6 ± 1.3	298	C	[2013SAN/RIB]
	SUB	(287–305)	74.5 ± 0.8	296	GS	[1959DAV/JON]
	V	(333–388)	45.7	348	A	[1987STE/MAL]
$C_2H_5NO_2$	[79-24-3]	nitroethane				
	FUS	(80–300)	9.85	183.7	AC	[1996DOM/HEA, 1966LIU/ZIE]
	V	(324–388)	38.6	339	EB	[1987STE/MAL, 1956TOO, 1970DYK]
	V	(283–383)	41.5 ± 0.4	289	ZG	[1949HOL/DOR]
	V	(252–387)	41.3	267		[1947STU]
	V		38			[1934GOO]
$C_2H_5NO_2$	[56-40-6]	glycine				
	TRS		0.09	435.5	DSC	[2008DIC/SGH]
	TRS (γ to α)		1.8	453.2	DSC	
	TRS (γ to α)		1.2	438.2	DSC	[2001PER/HAN]
[Note: Authors of [2001PER/HAN] report that the phase transition was sensitive to the conditions under which the γ-phase was grown.]						
	SUB	(408–431)	136.5 ± 2	419	TE, ME	[1979DEK/VOO]
	SUB	(325–425)	U96.2 ± 4	375	LE	[1977GAF/PIE]
	SUB	(413–450)	138.1 ± 4.6	298	C	[1977NGA/SAB]
	SUB	(453–471)	136.4 ± 4.0	462	ME	[1965SVE/CLY, 1970COX/PIL, 1964CLY/SVE, 1989CHI/GRO]
	SUB	(412–417)	130.5 ± 2	414	ME	[1959TAK/CHI]
$C_2H_5NO_3$	[625-58-1]	ethyl nitrate				
	FUS		8.53	178.6		[1996DOM/HEA, 1954GRA/SMI]
	V	(273–361)	37.0	288	A	[1987STE/MAL, 1970DYK]
	V	(273–343)	37.3	288		[1957GRA/PRA]
	V	(273–333)	37.0	288		[1956GRA/PRA]
	V		38.5			[1934GOO]
C_2H_5NS	[62-55-5]	thioacetamide				
	FUS		18.36	385.7	DSC	[1990DON/DRE]
	SUB		83.3 ± 0.3	298	C	[1982INA/MUR, 1985MUR/SAK]
	SUB		82.8 ± 0.3	298	C	[1982SAB/TOR]
$C_2H_5N_3$	[871-31-8]	azidoethane				
	V	(296–320)	31.5	308	A	[1987STE/MAL, 1970DYK]
	V	(253–298)	28.9	268	A	[1987STE/MAL, 1964GEI/KON, 1984BOU/FRI]
$C_2H_5N_3O$	[1517-05-1]	2-azidoethanol				
	V	(284–316)	62.2 ± 0.3	298	GS	[2011VER/EME2]
	V		33.9 ± 1.3			[1997KOR/API]
$C_2H_5N_3O_2$		bis(nitrosomethyl)amine				
	V	(276–426)	43.5	291	A	[1987STE/MAL, 1947STU]
$C_2H_5N_5$	[5422-44-6]	1-methyl-5-aminotetrazole				
	SUB	(379–438)	116.4 ± 1.7		ME	[1990KOZ/SIM]
$C_2H_5N_5$	[6154-04-7]	2-methyl-5-aminotetrazole				
	SUB	(310–373)	90.6 ± 1.1		ME	[1990KOZ/SIM]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_2H_6	[74-84-0]	ethane				
	TRS		2.28	89.8		
	FUS		0.58	90.3		[1976ATA/CHI]
	FUS		2.86	89.9		[1996DOM/HEA, 1937WIT/KEM]
	FUS		2.79	89.5		[1996DOM/HEA, 1930WIE/HUB]
	SUB	(80–90)	22.6	85		[1972REG]
	SUB		20.5	90	B	[1963BON]
	V	(273–305)	15.3	288	A	[1987STE/MAL]
	V	(154–185)	15.7	170	A	[1987STE/MAL]
	V	(95–129)	17.7	114	A	[1987STE/MAL]
	V	(185–229)	14.9	214	A	[1987STE/MAL]
	V	(228–274)	14.9	259	A	[1987STE/MAL]
	V	(91–144)	17.1	129		[1973CAR/KOB]
	V		14.7	210		[1971WIL/ZWO]
	V		14.7	184		[1937WIT/KEM]
	V	(136–200)	15.3	185		[1926LOO/WAL]
$C_2H_6BrF_4NS$	[63324-17-4]	bromotetrafluoro(*N*-methylmethanaminato) sulfur				
	V		38.1	372	I	[1977KIT/SHR2]
$C_2H_6ClF_4NS$	[63324-16-3]	chlorotetrafluoro(*N*-methylmethanaminato) sulfur				
	V		36.0	359	I	[1977KIT/SHR2]
C_2H_6ClP	[811-62-1]	chlorodimethyl phosphine				
	SUB	(233–268)	55.5	253	A	[1987STE/MAL, 1958BUR/SLO]
	V	(273–306)	32.9	288	A	[1987STE/MAL, 1958BUR/SLO]
$C_2H_6Cl_2NP$	[683-85-2]	(dimethylamino)dichlorophosphine				
	V		40.8 ± 0.7	298	STG	[1995ALM/FIN2]
$C_2H_6ClO_3P$	[16672-87-0]	2-chloroethylphosphonic acid				
	FUS		14.79	347.9	DSC	[1990DON/DRE]
C_2H_6FN	[14722-43-1]	fluorodimethylamine				
	V	(249–273)	29.9	261	A	[1987STE/MAL, 1966WIE/RUF]
$C_2H_6FO_3P$	[5954-50-7]	dimethylfluorophosphate				
	V	(273–333)	44.4	288	A, GS	[1987STE/MAL, 1948RED/CHA4]
$C_2H_6F_2NOP$	[354-43-8]	*N*,*N*-dimethylphosphoramidic difluoride				
	V		50.1			[1967CAV]
$C_2H_6F_2NP$	[814-97-1]	(dimethylamino)difluorophosphine				
	V	(263–313)	29.3	288	I	[1964CAV]
$C_2H_6F_3NOS$	[22519-52-4]	(dimethylaminato)trifluorooxo sulfur				
	V	(313–357)	44.9	335		[1968GLE/VON2]
$C_2H_6F_3NS$	[3880-03-3]	(dimethylamino) sulfur trifluoride				
	V	(296–327)	40.5	311	A	[1987STE/MAL, 1999DYK/SVO, 1967DEM/KEN]
$C_2H_6F_4NP$	[2353-98-2]	(dimethylamino) tetrafluorophosphorane				
	V		37.1			[1966BRO/FRA]
$C_2H_6N_2$	[503-28-6]	azomethane				
	V	(195–273)	26.4	258	A	[1987STE/MAL]
	V	(209–236)	25.3	222	A	[1987STE/MAL]
$C_2H_6N_2$	[51283-79-5]	methylammonium cyanide				
	V	(251–295)	49.1	280	A	[1987STE/MAL, 1973DIE/MAR]
$C_2H_6N_2O$	[598-50-5]	*N*-methylurea				
	FUS		12.5	372	DSC	[2005HAS/TAJ]
	FUS		16.6	375	DSC	[1995FER/DEL]
	FUS		14.06	378.1		[1990KAB/MIR2]
	FUS		15.75	373.8	DSC	[1987DEL/FER]
	FUS		13.97	375.3	DSC	[1972ZOR/HUR]
	SUB	(331–365)	95.5 ± 0.5	298	GS	[2006EME/KAB]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(322–371)	96.9 ± 1.2	347	ME	[2003ZAI/KAB]
	SUB	(322–371)	96.8 ± 1.2	350	ME	[2003ZAI/KAB]
	SUB		94.4 ± 0.8	350	C	[2003ZAI/KAB]
	SUB		96.3 ± 0.4	298		[2003ZAI/KAB]
	SUB		94.4 ± 0.8	343	C	[1993KOZ/KAB]
	SUB		97.1 ± 0.4	298		[1993KOZ/KAB]
	SUB		94.9 ± 0.6	337	C	[1990KAB/MIR]
	SUB		93.3 ± 1.2	355	TE	[1990PIA/FER, 1987FER/DEL2]
	SUB		87.3	348		[1987FER/DEL2]
	SUB		99.3 ± 0.7			[1986KRA/KOZ2]
	SUB			78.2	E	[1982AIR/CHA]
$C_2H_6N_2O_2$	[4164-28-7]	*N*-nitro-*N*-methylaminomethane				
	FUS		37.66	327	DTA	[1987OYU/BRI]
	SUB		67.4 ± 1.3	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
	SUB	(315–324)	69.9	319	DBM	[1952BRA/COT, 1977PED/RYL]
$C_2H_6N_2O_2$	[4164-28-7]	2-nitro-2-azapropane				
	FUS		17.26	331.5	DSC	[1997ZEM]
$C_2H_6N_2S$	[598-52-7]	*N*-methylthiourea				
	FUS		19.46	392.4	DSC	[2000DEL/JOZ]
	FUS		16.3	393	DSC	[1993DEM/BUC]
	SUB		112.9 ± 3	298	ME	[2000DEL/JOZ]
	SUB		111 ± 3.0	381	TE	[1994FER/MAR]
$C_2H_6N_2S$	[13849-02-0]	sulfur diimide, dimethyl				
	V	(248–298)	37.2	263	A	[1987STE/MAL, 1999DYK/SVO, 1966COH/MAC]
$C_2H_6N_4O_4$	[505-71-5]	*N*,*N*′-dinitroethanediamine				
	FUS		29.5	450	DTA	[1987OYU/BRI]
C_2H_6O	[115-10-6]	dimethyl ether				
	FUS		4.94	131.7		[1996DOM/HEA, 1941KEN/SAG]
	V	(180–249)	22.8	234	A	[1987STE/MAL]
	V	(293–360)	21.2	308	A	[1987STE/MAL]
	V	(349–400)	21.1	364	A	[1987STE/MAL]
	V	(241–303)	22.2	256	A	[1987STE/MAL]
	V	(171–248)	18.5	298		[1976AMB/ELL]
	V	(171–248)	21.4	248		[1976AMB/ELL]
	V	(183–265)	22.6	250	A	[1987STE/MAL, 1969KUD/REE]
	V	(195–248)	22.7	233		[1941KEN/SAG]
	V		21.5 ± 0.1	248	C	[1941KEN/SAG]
C_2H_6O	[64-17-5]	ethanol				
	FUS		5.08	158.6	DTA	[1994TAN/SAB3]
	FUS		4.64	158.8		[1996DOM/HEA, 1977HAI/SUG]
	TRS		3.14	111.4		
	FUS		4.64	158.8		[1996DOM/HEA, 1967NIK/RAB2]
	FUS		4.97	159.0		[1944YOS]
	FUS		5.02	158.5		[1929KEL4]
	FUS		4.96	158.7		[1925PAR]
	FUS		4.63	156.2		[1920GIB/PAR]
	V	(317–351)	41.3	332		[2011SAP/UUS]
	V	(325–352)	41.2 ± 0.4		I	[2010GER/PEL]
	V	(311–351)	41.7	326		[2010MEJ/SEG]
	V	(298–348)	41.7	298		[2004NAS/ZIM]
	V		38.9			[1999FAT]
	V	(323–357)	39.3	338		[1999AUC/LOR]
	V	(309–343)	40.7	321	EB	[1995DIO/SAN]
	V	(309–343)	42.4	298	EB	[1995DIO/SAN]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(342–357)	40.5	357		[1990ORT/SUS]
	V		35.2	393	C	[1989VIN/WOR]
	V		30.6	423	C	[1989VIN/WOR]
	V		25.7	453	C	[1989VIN/WOR]
	V		21.8	473	C	[1989VIN/WOR]
	V		17.3	493	C	[1989VIN/WOR]
	V		14.2	503	C	[1989VIN/WOR]
	V		40.9	320	C	[1988DON/LIN]
	V		40.4	328	C	[1988DON/LIN]
	V		40.2	335	C	[1988DON/LIN]
	V		39.4	344	C	[1988DON/LIN]
	V		38.8	351	C	[1988DON/LIN]
	V	(320–359)	41.3	335	A	[1987STE/MAL]
	V	(210–271)	45.6	256	A	[1987STE/MAL]
	V	(193–223)	44.0	208	A	[1987STE/MAL]
	V	(320–359)	41.3	335	A	[1987STE/MAL]
	V	(349–374)	40.1	361	A	[1987STE/MAL]
	V	(370–464)	39.1	385	A	[1987STE/MAL]
	V	(459–514)	36.1	474	A	[1987STE/MAL]
	V	(292–353)	42.5	307	A	[1987STE/MAL]
	V	(243–303)	42.3	298		[1983SCH/STR]
	V	(271–373)	42.9	286		[1973WIL/ZWO]
	V		42.26 ± 0.02	298	C	[1971POL/BEN]
	V		41.7 ± 0.1	308	C	[1971POL/BEN]
	V		41.2 ± 0.1	318	C	[1971POL/BEN]
	V		40.1 ± 0.1	328	C	[1971POL/BEN]
	V		41.0 ± 0.1	320	C	[1970COU/FEN]
	V		40.0 ± 0.1	335	C	[1970COU/FEN]
	V		38.7 ± 0.1	351	C	[1970COU/FEN]
	V	(293–366)	42.5	308	A, EB	[1987STE/MAL, 1970AMB/SPR]
	V	(288–348)	42.4	303		[1967VAN/SOC]
	V		42.3 ± 0.1	298	C	[1966WAD]
	V		42.2 ± 0.1	298	C	[1963MCC/LAI]
	V	(298–351)	42.2	313		[1949KRE/WIE]
	V		40.0	351		[1934OGU/ANJ]
	V	(286–351)	54.1	301		[1883KAH]
C_2H_6OS	[67-68-5]	dimethyl sulfoxide				
	FUS		12.34	292.2	DSC	[2015SOL/ROD]
	FUS	(5–350)	14.37	291.7	AC	[1996DOM/HEA, 1970CLE/WES]
	V	(402–463)	47.5	425		[2013ZHA/LV]
	V		53.3	298	CE	[2011FUL/RUZ]
	V	(377–483)	48.6	392		[1999DYK/SVO]
	V	(353–383)	48.1	368	TGA	[1987ALN/ALS]
	V	(305–464)	51.7	320	A	[1987STE/MAL]
	V	(298–318)	52.3	308		[1974SAS/KON]
	V	(325–442)	50.6	340	MM	[1972JAK/VAN, 1984BOU/FRI]
	V	(303–423)	52.1	318		[1972NIS/HAK]
	V	(293–323)	52.5	308		[1969MES]
	V	(293–323)	52.9 ± 0.4	298	RG	[1948DOU]
C_2H_6OS	[60-24-2]	2-mercaptoethanol				
	V	(293–440)	54.1	308	A	[1987STE/MAL, 1970DYK, 1999DYK/SVO]
$C_2H_6O_2$	[107-21-1]	ethylene glycol				
	FUS		11.98	261.2	DSC	[2015SOL/ROD]
	FUS		11.1	261.6	DSC	[2012ROD/SOL]
	FUS		9.5	256.6	DTA	[1990KNA/SAB]
	FUS		9.96	260.6		[1996DOM/HEA, 1967NIK/RAB]
	FUS		11.6	260.6		[1925PAR/KEL]
	FUS		11.2			[1901DEF2]
	V	(307–384)	62.4 ± 4.0	345		[2010PET/REY]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		63.9 ± 0.9	298	CGC	[2006UMN/KWE]
	V	(308–336)	65.4 ± 0.3	298	GS	[2005VAS/VER]
	V	(278–328)	66.0 ± 0.2	298	GS	[2004VER2]
	V	(260–350)	66.2	298		[2003DER/MIC, 2004VER2]
	V	(264–353)	63.4 ± 0.1	298		[1999MOK/PRC, 2004VER2]
	V		65.6 ± 0.3	298	C	[1988KNA/SAB, 1990KNA/SAB2]
	V	(363–408)	57.4	385	TGA	[1987ALN/ALS]
	V	(323–473)	65.2	338	A	[1987STE/MAL]
	V	(363–418)	62.5	378	A	[1987STE/MAL]
	V	(283–373)	66.1 ± 0.3	298	GS	[1981HAL/COG, 2004VER2]
	V	(335–420)	68.2 ± 0.8	298	EB	[1981JOO/ARL, 2004VER2]
	V	(374–495)	63.7 ± 0.1	298	EB	[1981AMB/HAL, 2005VAS/VER]
	V	(333–443)	63.6	298		[1972GAR/HUS, 2005VAS/VER]
	V	(323–473)	64.0	338		[1952JON/TAM, 1972GAR/HUS]
	V	(333–443)	63.8	298	DFM	[1937GAL/HIB, 2004VER2, 1972GAR/HUS]
	V	(363–403)	61.1	383		[1935SCH/STA]
	V	(403–470)	57.3	436		[1935SCH/STA]
	V	(395–459)	61.1	403		[1901DEF]
	V	(395—459)	64.8 ± 0.3	298		[1901DEF, 2004VER2]
$C_2H_6O_2$	[3031-74-1]	ethyl hydroperoxide				
	V	(253–363)	64.0	268	A	[1987STE/MAL, 1951EGE/EMT, 1970DYK]
$C_2H_6O_2S$	[67-71-0]	dimethyl sulfone				
	FUS	(5–420)	18.28	382	AC	[1996DOM/HEA, 1970CLE/WES]
	SUB		77 ± 2.9			[1970COX/PIL, UR/MAC]
	V	(387–523)	56.0	404	A, BG	[1987STE/MAL, 1970DYK, 1999DYK/SVO, 1961BUS/IVI]
$C_2H_6O_3S$	[616-42-2]	dimethyl sulfite				
	V		40.2 ± 1.7	298	BP	[1969MAC/STE2]
$C_2H_6O_4$	[17088-73-2]	bis-hydroxymethyl peroxide				
	SUB		94.1 ± 4.2		ME	[1953JEN/STY, 1970COX/PIL]
$C_2H_6O_4S$	[77-78-1]	dimethyl sulfate				
	V	(340–470)	46.7	355	A	[1987STE/MAL, 1999DYK/SVO]
	V		48.5 ± 1.7	298	BP	[1969MAC/STE2]
C_2H_6S	[75-18-3]	dimethyl sulfide				
	FUS		7.98	174.9		[1996DOM/HEA, 1942OSB/DOE]
	V		28.5 ± 0.1			[1997BAE]
	V		27.9 ± 0.6	298	C	[1989VOR/KLY]
	V	(268–319)	28.9	283	A	[1987STE/MAL]
	V	(307–379)	27.7	322	A	[1987STE/MAL]
	V	(372–453)	26.6	387	A	[1987STE/MAL]
	V	(447–503)	26.7	462	A	[1987STE/MAL]
	V		27.5	298		[1981SHI/SAI]
	V		27.7	298		[1971WIL/ZWO]
	V		28.8 ± 0.1	276	C	[1957MCC/HUB]
	V		27.9 ± 0.1	292	C	[1957MCC/HUB]
	V		27.0 ± 0.1	310	C	[1957MCC/HUB]
	V	(287–318)	28.2	302	EB	[1952WHI/BAR]
	V	(251–293)	28.9	278		[1942OSB/DOE]
	V		28.9	310		[1935THO/LIN]
C_2H_6S	[75-08-1]	ethyl mercaptan (ethanethiol)				
	FUS		4.97	195.3		[1996DOM/HEA, 1952MCC/SCO]
	V	(273–313)	28.4	288	A	[1987STE/MAL]
	V	(303–375)	27.5	318	A	[1987STE/MAL]
	V	(265–448)	26.3	380	A	[1987STE/MAL]
	V	(442–499)	26.6	457	A	[1987STE/MAL]
	V		27.3	298		[1971WIL/ZWO]
	V	(273–339)	28.4	288		[1966OSB/DOU]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–339)	28.4	288	A, EB	[1987STE/MAL, 1952MCC/SCO, 1966OSB/DOU]
	V		28.7	306		[1935THO/LIN]
$C_2H_6S_2$	[540-63-6]	1,2-ethanedithiol				
	V		44.7 ± 0.1	298		[1962MAN/SUN]
$C_2H_6S_2$	[624-92-0]	dimethyl disulfide				
	FUS		9.19	188.4		[1996DOM/HEA, 1950SCO/FIN]
	V		38.5 ± 0.6	298	C	[1989VOR/KLY]
	V	(297–402)	37.8	312	A	[1987STE/MAL]
	V		37.8 ± 0.1	298	C	[1985KUS]
	V		37.8	298		[1981SHI/SAI]
	V		38.4	298		[1971WIL/ZWO]
	V		36.0 ± 0.1	341	C	[1958HUB/DOU]
	V		34.9 ± 0.1	360	C	[1958HUB/DOU]
	V		33.7 ± 0.1	383	C	[1958HUB/DOU]
	V	(321–388)	36.7	336	EB	[1952WHI/BAR]
	V	(334–401)	36.2	349		[1950SCO/FIN]
	V	(288–333)	38.2	303		[1950SCO/FIN]
C_2H_7N	[124-40-3]	dimethylamine				
	FUS		5.94	181		[1996DOM/HEA, 1939AST/EID]
	V	(277–360)	27.0	292	A	[1987STE/MAL]
	V	(358–438)	23.8	373	A	[1987STE/MAL]
	V	(202–279)	28.4	264	A	[1987STE/MAL, 1939AST/EID, 1984BOU/FRI]
	V		27.2	280		[1935WIB/SUT]
C_2H_7N	[75-04-7]	ethyl amine				
	V	(213–297)	29.0	282	A	[1987STE/MAL]
	V	(290–449)	27.2	305	A	[1987STE/MAL]
	V	(291–387)	27.6	306	A	[1987STE/MAL]
	V	(377–456)	25.9	392	A	[1987STE/MAL]
	V	(275–288)	29.1	281	EB	[1962BIT/KAU2]
	V	(190–290)	28.9	275		[1947STU]
C_2H_7NO	[5725-96-2]	*N*,*N*-dimethylhydroxyl amine				
	V	(290–363)	45.7	305	A	[1987STE/MAL, 1957BIS/PAR, 1984BOU/FRI]
C_2H_7NO	[1117-97-1]	*N*,*O*-dimethylhydroxyl amine				
	V	(228–316)	34.3	243	A	[1987STE/MAL, 1957BIS/PAR, 1984BOU/FRI]
C_2H_7NO	[141-43-5]	2-aminoethanol				
	FUS		13.32	283.2	DSC	[2015SOL/ROD]
	FUS		13.8	283.9	DSC	[2014PEN/UUS]
	V	(283–363)	60.6	298	Static	[2009BEL/RAZ]
	V	(357–435)	55.9	372	EB	[2008KIM/SVE]
	V	(279–324)	59.6 ± 0.3	298	GS	[2005KAP/SLO]
	V	(358–440)	59.4	298	EB	[1999TOC/AKI, 2005KAP/SLO]
	V	(352–613)	59.0	298	EB	[1987DAU/JAL, 2005KAP/SLO]
	V	(310–444)	61.7	325	A	[1987STE/MAL]
	V	(298–308)	56.1	298		[1982TOU/OKA, 2005KAP/SLO]
	V	(293–298)	54.8	298		[1974GUS/REN, 2005KAP/SLO]
	V	(325–443)	57.7	298		[1969DAN/MAT, 2005KAP/SLO]
	V	(379–443)	54.7	394		[1959MCD/SHR]
	V	(273–301)	U50.8	287	A, GS	[1957BES/KOC]
	V	(338–443)	58.9	353		[1950MAT/SUM, 1984BOU/FRI]
	V	(303–373)	57.4	298	EB	[1947LEI/SHO, 2005KAP/SLO]
	V	(341–453)	57.9	298		[1935WIL, 2005KAP/SLO]
$C_2H_7NO_3S$	[107-35-7]	2-aminoethanesulfonic acid				
	FUS		22.20	588.45	DSC	[2012HAN/ZHO]

[Note: Enthalpy of fusion in [2010HAN/ZHO] was given as a negative value, we have changed the sign as solid-to-liquid transitions are generally endothermic processes.]

TABLE 5. Phase change enthalpies of C_2 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_2H_7O_3P$	[868-85-9]	dimethyl phosphite				
	V	(353–443)	46.7	368		[2010FAN/WAN]
	V	(243–443)	48.3	243	GS	[2009BUT/BUC]
	V	(243–443)	47.9	263	GS	[2009BUT/BUC]
	V	(243–443)	46.7	298	GS	[2009BUT/BUC]
	V	(243–443)	46.4	313	GS	[2009BUT/BUC]
	V	(243–443)	46.0	333	GS	[2009BUT/BUC]
	V	(243–443)	45.4	373	GS	[2009BUT/BUC]
	V		39.5			[1993OVC/SOB]
	V	(346–456)	38.7	361	A	[1987STE/MAL, 1970DYK, 1958PAG/PUR]
$C_2H_7O_3P$	[15845-66-6]	ethylphosphonic acid				
	SUB		50.6 ± 4.2			[1955NEA/WIL, 1970COX/PIL]
C_2H_7P	[676-59-5]	dimethyl phosphine				
	V	(226–288)	26.2	257		[1942DAV/BRO]
C_2H_8ClN	[506-59-2]	dimethylammonium chloride				
	V	(429–533)	95.6	444	A, I	[1987STE/MAL, 1967KIS]
	V	(533–569)	143.9	548	A, I	[1987STE/MAL, 1967KIS]
C_2H_8ClN	[557-66-4]	ethylammonium chloride				
	V	(382–480)	34.3	397	A, I	[1987STE/MAL, 1967KIS]
$C_2H_8NOPS_2$	[10265-92-6]	*O*,*S*-dimethyl phosphoroamidothioate				
	FUS		13.34	316.8	DSC	[1990DON/DRE]
$C_2H_8N_2$	[57-14-7]	1,1-dimethylhydrazine				
	FUS	(12–298)	10.07	216	AC	[1996DOM/HEA, 1953AST/WOO]
	V	(267–303)	34.1	284		[2000BOU/YE]
	V	(238–292)	36.5	277	A	[1987STE/MAL, 1953AST/WOO, 1984BOU/FRI]
$C_2H_8N_2$	[540-73-8]	1,2-dimethylhydrazine				
	FUS		13.64	264.3		[1996DOM/HEA, 1951AST/JAN]
	V	(274–297)	41.0	286	A	[1987STE/MAL, 1951AST/JAN, 1984BOU/FRI]
$C_2H_8N_2$	[107-15-3]	ethylenediamine				
	FUS		21.08	284.1	DSC	[1997LEE/CHA]
	TRS	(11–334)	0.49	189		
	FUS	(11–334)	22.58	284.3	AC	[1991ACR, 1994LEE/LIE, 1975MES/FIN]
	SUB	(242–278)	65.6	263	IPM	[1987STE/MAL, 1975MES/FIN]
	V	(286–365)	48.0	301		[2011AHM/NEG]
	V	(294–325)	41.6	298	TGA	[1988AFZ/BUT, 2010EFI/EME]
	V	(303–391)	43.9	318	A	[1987STE/MAL]
	V		45.7 ± 0.1	298		[1978CAB/MOL]
	V	(284–419)	45.9	299	A, IPM	[1987STE/MAL, 1975MES/FIN]
	V		45.0 ± 0.1	298	C	[1969WAD]
	V	(314–388)	54.4 ± 1.0	298	I	[1967SIV/MAT, 2010EFI/EME]
	V		46.0 ± 0.2	298	IPM	[1965DOU/OSB, 1970GOO/MOO]
	V	(302–312)	47.2	307		[1934HIE/WOE]
	V	(380–390)	39.0	385		[1934HIE/WOE]
	V	(299–390)	45.6	314		[1934HIE/WOE, 1984BOU/FRI]
$C_2H_8N_6O_2$	[216489-95-1]	1, 1′-(1,2-ethanediyl)bis(1-nitrosohydrazine)				
	SUB		172.4 ± 1.3	298		[1998LEB/CHI]

TABLE 6. Phase change enthalpies of C_3 organic compounds

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3BrClF_6O_4$	[38126-26-0]	perchloric acid, 1,1,2,3,3,3-hexafluoro-2-bromopropyl ester				
	V	(273–293)	38.1	283	A	[1987STE/MAL, 1973SCH/PIL]
C_3BrF_5O	[6129-62-0]	2-bromo-2,3,3,3-tetrafluoropropionyl fluoride				
	V	(224–282)	30.2	267	A	[1987STE/MAL, 1973SCH/PIL]
C_3BrF_6NO	[2967-12-6]	*N*,*N*-bis(trifluoromethyl) carbamoyl bromide				
	V	(233–293)	30.7	278	A	[1987STE/MAL, 1964EME/TAT]
$C_3BrF_9N_2$	[13105-66-3]	*N*-bromo-tris(trifluoromethyl)hydrazine				
	V	(283–333)	36.8	308		[1966BRO/FRA]
$C_3BrF_{10}NS$	[62977-73-5]	bromotrifluoro[1,1,1,2,3,3,3-heptafluoro-2-propanaminoato(2-)] sulfur				
	V		35.1	394	I	[1977KIT/SHR2]
$C_3Br_2F_6O$	[2356-57-2]	(trifluoromethyl)(1,2-dibromo-1,2,2-trifluoroethyl) ether				
	V	(299–335)	34.6	314	A	[1987STE/MAL, 1968HAS/TIP]
$C_3Br_3F_6NO$	[29528-78-7]	1, 1, 1, 1′, 1′, 1′-hexafluoro-*N*-(tribromomethoxy)dimethylamine				
	V	(297–338)	28.9	312	A	[1987STE/MAL, 1970EME/SPA]
$C_3ClF_2NO_2$	[1403964-33-9]	2-chloro-2,2-difluoroacetyl isocyanate				
	V	(235–295)	32.2	265		[2012RAM/ULI]
$C_3ClF_4NO_2$	[42016-32-0]	chloro(trifluoroacetyl)carbamic fluoride				
	V		39.3	371		[1973SPR/WRI]
C_3ClF_5O	[79-53-8]	chloropentafluoroacetone				
	V	(232–303)	27.3	247	A	[1987STE/MAL, 1964MUR, 1984BOU/FRI]
C_3ClF_5O	[28627-00-1]	2-chloro-2,3,3,3-tetrafluoropropionyl fluoride				
	V	(195–273)	23.9	258	A	[1987STE/MAL]
$C_3ClF_6NO_2$	[15496-01-2]	*O*-(chloroformyl)-*N*,*N*-bis(trifluoromethyl)hydroxylamine				
	V	(227–286)	34.5	271	A	[1987STE/MAL, 1967BAB/SHR]
C_3ClF_6NS	[38005-18-4]	chloro(hexafluoroisopylidenimino) sulfur				
	V		37.7	368	I	[1972MET/SHR]
C_3ClF_7O	[22675-68-9]	heptafluoroisopropyl hypochorite				
	V	(196–287)	26.7	272	A	[1987STE/MAL, 1969GOU/AND]
	V	(194–273)	22.7	258	A	[1987STE/MAL]
	V	(195–273)	23.2	234		[1969SCH/MAY]
C_3ClF_8N	[33757-13-0]	*N*-chloro-*N*-1,2,2,2-pentafluoro-1-(trifluoromethyl)ethylamine				
	V	(240–311)	28.8	255	A	[1987STE/MAL, 1971SWI/ZAB]
C_3ClF_8NOS	[74366-14-6]	(heptafluoropropyl)imidosulfuryl chloride fluoride				
	V		26.7	346	I	[1980ABE/SHR]
$C_3ClF_{10}NS$	[62977-71-3]	chlorotrifluoro[1,1,1,2,3,3,3-heptafluoro-2-propanaminoato(2-)] sulfur				
	V		33.5	391	I	[1977KIT/SHR2]
$C_3ClF_{11}S$	[42769-86-8]	sulfur, chlorotetrafluoro(heptafluoropropyl)				
	V		33.9			[1973ABE/SHR2]
$C_3Cl_2F_5N$	[4222-33-7]	2,2-difluoro-1,2-dichloro-*N*-(trifluoromethyl)ethylidenimine				
	V	(283–318)	31.2	298	A	[1987STE/MAL, 1965BAN/HAS]
$C_3Cl_2F_6$	[661-97-2]	1,2-dichlorohexafluoropropane				
	V	(296–307)	28.1	301		[1980MAJ/SVO]
	V		26.9 ± 0.1	298	C	[1980MAJ/SVO]
	V		25.9 ± 0.1	313	C	[1980MAJ/SVO]
$C_3Cl_2F_6N_2$	[13105-65-2]	bis(trifluoromethyl)aminocarbylamine chloride				
	V	(267–339)	35.0	303		[1966DOB/EME]
$C_3Cl_2F_6O$	[22675-69-0]	hypochlorous acid, 2-chloro-1,1,2,3,3,3-hexafluoropropyl ester				
	V	(273–293)	29.6	283	A	[1987STE/MAL]
$C_3Cl_2F_7N$	[32751-04-5]	*N*,*N*-dichloro-1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethylamine				
	V	(299–344)	32.7	314	A	[1987STE/MAL, 1971SWI/ZAB]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3Cl_2F_7NS$	[26454-66-0]	*S*,*S*-dichloro-*N*-[tetrafluoro-1-(trifluoromethyl)ethyl]sulfilimine				
	V	(313–347)	39.3	328	A	[1987STE/MAL, 1970VON/GLE]
$C_3Cl_2F_7NS$		$C_3F_7N = SCl_2$				
	V		25.9	361	I	[1980ABE/SHR]
$C_3Cl_2F_7P$	[662-55-5]	dichloro(heptafluoropropyl)phosphine				
	V	(273–348)	33.5	310		[1959EME/SMI]
$C_3Cl_3F_5O$	[37136-24-6]	chlorodifluoromethyl 2,2-dichloro-1,1,2-trifluoroethyl ether				
	V	(302–350)	33.4	317	A	[1987STE/MAL]
	V		34.0 ± 0.1	298	C	[1981VAR/BUL2]
	V		33.8 ± 0.5	298	EB	[1976AMM/BUL]
$C_3Cl_5F_3O$	[428-73-9]	trichloromethyl 2,2-dichloro-1,1,2-trifluoroethyl ether				
	V	(341–423)	42.2	356	A	[1987STE/MAL]
	V		45.9 ± 0.3	298	C	[1981VAR/BUL2]
	V		45.7 ± 0.7	298	EB	[1976AMM/BUL]
C_3Cl_6	[1888-71-7]	hexachloropropylene				
	V	(366–510)	54.8 ± 0.4	298	EB	[1997STE/CHI4]
	V	(366–510)	51.1 ± 0.4	360	EB	[1997STE/CHI4]
	V	(366–510)	48.7 ± 0.3	400	EB	[1997STE/CHI4]
	V	(366–510)	46.0 ± 0.3	440	EB	[1997STE/CHI4]
	V	(366–510)	43.1 ± 0.5	480	EB	[1997STE/CHI4]
	V	(382–540)	49.3	397	A	[1987STE/MAL, 1970DYK]
C_3Cl_6	[2065-35-2]	hexachlorocyclopropane				
	FUS		18.6	376	DSC	[1996DOM/HEA, 1990SUH/MAN]
$C_3F_3N_2P$	[58310-46-6]	dicyano(trifluoromethyl)phosphine				
	V	(291–334)	45.6	306	A	[1987STE/MAL]
$C_3F_3N_3$	[675-14-9]	2,4,6-trifluoro-1,3,5-triazine				
	V	(277–344)	38.8	292	A	[1987STE/MAL, 1959SEE/BAL]
C_3F_4	[20174-11-2]	tetrafluoropropyne				
	V	(179–218)	18.8	203	A	[1987STE/MAL, 1969BAN/BAR]
$C_3F_4O_2S_2$	[58936-60-0]	ethane(dithioperoxoic)acid, fluorooxotrifluoromethyl ester				
	V		34.9	385	I	[1976BUR/SHR]
$C_3F_4O_2S_2$	[868052-03-3]	fluoroformyl trifluoroacetyl disulfide				
	V	(230–277)	39.8	253		[2005ERB/DEL]
C_3F_5N	[3291-42-7]	2,2-difluoro-3-(trifluoromethyl)-2*H*-azirine				
	V	(193–249)	24.0	234	A	[1966BAN/MOO, 1987STE/MAL]
	V	(193–249)	24.3	221		[1966BAN/MOO]
C_3F_5N	[3291-41-6]	2,3-difluoro-2-(trifluoromethyl)-2*H*-azirine				
	V	(193–248)	24.3	208	A	[1966BAN/MOO, 1987STE/MAL]
	V	(193–249)	24.0	220		[1966BAN/MOO]
C_3F_6	[116-15-4]	perfluoropropene				
	V	(178–228)	23.4	203	I	[1953ATK/TRE]
	V	(233–293)	21.9	278	A	[1987STE/MAL, 1952WHI, 1970DYK, 1984BOU/FRI]
$C_3F_6N_2OS$	[34556-28-0]	*N*-cyano-*S*,*S*-bis(trifluoromethyl)sulfoximine				
	V		30.8	382	I	[1972SAU/SHR]
C_3F_6O	[425-82-1]	hexafluorooxetane				
	V	(232–313)	22.3	247	A	[1992SAL/WAN]
C_3F_6O	[116-16-5]	perfluoroacetone				
	FUS		8.38	147.7		[1996DOM/HEA, 1967PLA/PAC]
	V	(195–246)	23.6	231	A	[1987STE/MAL, 1967PLA/PAC, 1984BOU/FRI]
	V	(240–357)	22.3	253		[1964MUR, 1984BOU/FRI]
	V	(213–245)	23.1	229		[1955MOR/AYS]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_3F_6O	[1187-93-5]	trifluoromethyl trifluorovinyl ether				
	V	(248–338)	20.3	298		[2007LIU/LIU]
	V	(208–241)	22.9	226	A	[1987STE/MAL, 1968HAS/TIP]
$C_3F_6OS_2$	[58936-59-7]	2,2,2-trifluoroethane(dithioperoxoic) acid, trifluoromethyl ester				
	V		27.8	329	I	[1976BUR/SHR]
$C_3F_6O_2$	[426-47-1]	pentafluoropropionyl hypofluorite				
	V	(214–248)	25.8	233	A	[1987STE/MAL, 1954MEN/CAD]
$C_3F_6O_2$	[21297-65-4]	1,3-perfluorodioxolane				
	V	(234–367)	22.3	249	A	[1992SAL/WAN]
$C_3F_6O_3$	[30321-53-0]	2,2,2-trifluoroethaneperoxoic acid, trifluoromethyl ester				
	V		30.7			[1971BER/HOH]
$C_3F_6O_4$	[41864-59-9]	bis(trifluoromethyl) peroxycarbonate				
	V		29.2			[1973HOH/DES]
$C_3F_6O_4S$	[51689-98-6]	pentafluoropropionic fluorosulfuric acid anhydride				
	V	(252–335)	39.2	267	A	[1987STE/MAL, 1966DES/CAD]
$C_3F_6O_5$	[16156-35-7]	carbonodiperoxoic acid, bis(trifluoromethyl) ester				
	V		32.0			[1971BER/HOH]
$C_3F_6O_7S_2$	[6378-48-9]	hydroacrylic acid, tetrafluoroanhydride with fluorosulfuric acid, fluorosulfate				
	V	(308–403)	49.4	323		[1999DYK/SVO, 1966DES/CAD]
$C_3F_7I_2P$	[678-07-9]	diiodo(heptafluoropropyl)phosphine				
	V	(313–393)	39.6	353		[1959EME/SMI]
C_3F_7N	[428-71-7]	perfluoro-(2-ethyl-1,2-oxazetidine)				
	V		25.6			[1961BAR/HAS]
C_3F_7N	[760-43-0]	perfluoro(ethylidenemethylamine)				
	V		21.4			[1961BAR/HAS]
C_3F_7NO	[32822-50-7]	heptafluoropropionamide				
	V		27.2	279	HG	[1971DEM/SHR]
C_3F_7NO	[423-26-7]	perfluoro-1-nitrosopropane				
	V		24.9	239		[1956BAR/HAS]
	V		30.5			[1952BAN, 1953BAN]
C_3F_7NOS	[26454-67-1]	1,1,1,2,3,3,3-heptafluoro-*N*-sulfinyl-2-propanamine				
	V	(252–280)	34.1	266	A	[1987STE/MAL, 1999DYK/SVO, 1970VON/GLE]
C_3F_7NOS	[74366-13-5]	1,1,2,2,3,3,3-heptafluoro-*N*-sulfinyl-1-propanamine				
	V		26.3	325		[1980ABE/SHR]
$C_3F_7NO_2$	[423-33-6]	perfluoro-1-nitropropane				
	V	(247–296)	28.5	281	A	[1956BAR/HAS, 1987STE/MAL]
	V		29.4			[1953BAN]
C_3F_7NS	[62067-06-5]	2,2,2-trifluoro-*N*-[(trifluoromethyl)thio]ethanimidoyl fluoride				
	V		28.0	305	I	[1977BUR/SHR2]
C_3F_8	[76-19-7]	perfluoropropane				
	TRS		3.56	99.4		
	FUS		0.48	125.5		[1996DOM/HEA, 1967PAC/PLA]
	V	(193–237)	21.6	222	A	[1987STE/MAL, 1967PAC/PLA]
	V	(213–259)	20.9	244		[1963BRO]
$C_3F_8N_2O_2$	[32837-67-5]	*N*-[[(difluoroamino)carbonxyl]oxy]-1,1,1-trifluoro-*N*-(trifluoromethyl)-methanamine				
	V		31.4	310		[1973WRI/SHR]
C_3F_8OS	[33622-17-2]	pentafluoroethyl trifluoromethyl sulfur				
	V		32.5			[1971SAU/SHR]
$C_3F_8O_5$	[29291-73-4]	difluoro[(trifluoromethyl)dioxy][(trifluoromethyl)trioxy]methane				
	V		27.6		BG	[1970DES]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_3F_8S	[33547-10-3]	pentafluoroethyl trifluoromethyl sulfide				
	V		28.8			[1971SAU/SHR]
C_3F_9N	[432-03-1]	perfluorotrimethylamine				
	V	(193–263)	23.9	248	A	[1987STE/MAL]
C_3F_9NO	[671-63-6]	1,1,1-trifluoro-*N*-(trifluoromethoxy)-*N*-(trifluoromethyl)-methanamine				
	V	(226–268)	27.0	253	A	[1987STE/MAL, 1965DIN/HAS3]
C_3F_9NOS	[59617-29-7]	[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl] imidosulfuryl fluoride				
	V		28.7			[1976STA/MEW]
$C_3F_9NOS_2$	[34556-26-8]	*S*,*S*-bis(trifluoromethyl)-*N*-[(trifluoromethyl)thio]sulfoximine				
	V		31.2	360	I	[1972SAU/SHR]
$C_3F_9NO_2S_2$	[34556-27-9]	*S*,*S*-bis(trifluoromethyl)-*N*-[(trifluoromethyl)sulfinyl]sulfoximine				
	V		37.2	388	I	[1972SAU/SHR]
$C_3F_9NO_2S_3$	[29749-02-8]	1,1,1-trifluoro-*N*,*N*-bis(trifluoromethyl)thio]methanesulfonamide				
	V	(288–403)	43.5	303	A	[1987STE/MAL, 1999DYK/SVO]
$C_3F_9N_3O$	[10405-30-8]	nitrosotris(trifluoromethyl) hydrazine				
	V	(279–300)	29.5	289	A	[1987STE/MAL, 1966HAS/TIP]
	V	(233–294)	33.5	263		[1966DOB/EME]
$C_3F_9N_3O_2$	[10405-31-9]	nitrotris(trifluoromethyl) hydrazine				
	V	(293–321)	31.6	307	A	[1987STE/MAL, 1966HAS/TIP]
C_3F_9P	[432-04-2]	tris(trifluoromethyl)phosphine				
	V	(248–285)	24.7	270	A	[1987STE/MAL, 1953BEN/EME]
C_3F_9PS	[671-64-7]	bis(trifluoromethyl)trifluoromethylthiophosphine				
	V	(242–293)	32.5	267		[1962EME/PAC]
C_3F_9PS	[2025-08-3]	tris(trifluoromethyl)phosphine sulfide				
	V	(282–308)	29.1	295		[1964CAV/EME2]
$C_3F_9PS_2$	[36121-49-0]	(trifluoromethyl)dithiophosphite acid, bis(trifluoromethyl) ester				
	V	(273–296)	37.9	284	A	[1987STE/MAL, 1999DYK/SVO]
$C_3F_9P_3S_5$	[26349-17-7]	2,4,5-tris(trifluoromethyl)-1,3,2,4,5-dithiatriphospholane-2,4,5-trisulfide				
	SUB	(363–373)	96.6	368		[1970BUR/PAR]
$C_3F_{10}OS$	[33564-24-8]	difluorooxo(trifluoromethyl)(pentafluoroethyl) sulfur				
	V	(291–324)	30.6	306	A	[1987STE/MAL, 1999DYK/SVO]
	V	(270–324)	28.0	297		[1971SAU/SHR3]
$C_3F_{10}O_3S$	[60672-62-0]	pentafluoro (pentafluoropropaneperoxoato)sulfur				
	V		34.4			[1976HOP/DES]
$C_3F_{10}S$	[68010-33-3]	[2,2-difluoro-(1-trifluoromethyl)ethenyl] pentafluoro sulfur				
	V		30.0			[1978DEM/FOX]
$C_3F_{10}S$	[31222-06-7]	difluoro(pentafluoroethyl)(trifluoromethyl) sulfur				
	V		29.2			[1971SAU/SHR]
$C_3F_{11}NO_3S_2$	[65844-08-8]	trifluoro(trifluorosulfato-*O*)[1,1,1,2,3,3,3-heptafluoro-2-propanaminoato(2-)]sulfur				
	V		33.5	391	I	[1977KIT/SHR2]
$C_3F_{12}O_3S_2$	[68010-30-0]	pentafluoro [2,2,2-trifluoro-1-(fluorosulfonyl)oxo]-1-(trifluoromethyl)ethyl] sulfur				
	V		37.2			[1978DEM/FOX]
C_3N_3P	[1116-01-4]	tricyanophosphine				
	SUB	(293–323)	78.3	308	ME	[1987STE/MAL, 1976DAV/FIN]
	SUB		75.3 ± 2.9	298		[1995ALM/FIN, 1976DAV/FIN]
$C_3HClF_6O_2S$	[57169-81-0]	chlorosulfurous acid, 2,2,2-trifluoro-1-(trifluromethyl)ethyl ester				
	V		36.7			[1975KIR/LAS]
$C_3HClF_{10}S$	[68010-36-6]	[1-(chlorodifluoromethyl)-2,2,2-trifluoroethyl] pentafluorosulfur				
	V		31.2			[1978DEM/FOX]
C_3HCl_7	[594-89-8]	1,1,1,2,2,3,3-heptachloropropane				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(413–473)	34.8	428	A	[1987STE/MAL, 1949HIG/END, 1970DYK]
$C_3HFN_4O_4$	[604739-69-7]	1-fluoro-2,5-dintiro-1-imidazole				
	SUB		74.1 ± 0.8	298		[2003MIR/LEB]
$C_3HFN_4O_4$	[604739-70-0]	1-fluoro-3,4-dinitro-1*H*-pyrazole				
	SUB		88.3 ± 1.7	298		[2003MIR/LEB]
$C_3HFN_6O_6$	[604739-71-1]	1-(trifluorodinitromethyl)3-nitro-1*H*-1,2,4-triazole				
	SUB		99.6 ± 0.8	298		[2003MIR/LEB]
C_3HF_3	[661-54-1]	3,3,3-trifluoropropyne				
	V	(138–213)	21.5	198	A	[1987STE/MAL, 1951HAS2]
C_3HF_6N	[3291-64-3]	2,2,3-trifluoro-3-fluoromethylaziridine				
	V	(268–298)	30.2	283	A	[1987STE/MAL, 1966BAN/MOO]
C_3HF_7	[431-89-0]	1,1,1,2,3,3,3-heptafluoropropane				
	V		18.9	298		[2007ECK/HUA]
	V	(278–308)	22.7	293		[2002BOB/ART]
	V	(293–353)	22.6	308		[2002VAL/COQ]
	V	(279–315)	23.2			[1998WIL/LIU]
	V	(237–370)	22.3	250		[1992SAL/WAN]
	V	(237–370)	14.5	300		[1992SAL/WAN]
	V	(237–370)	12.5	325		[1992SAL/WAN]
C_3HF_7O	[2356-61-8]	trifluoromethyl 1*H*-pentafluoroethyl ether				
	V	(232–313)	27.3	247	A	[1992SAL/WAN]
$C_3HF_7O_2S$	[52225-56-6]	fluorosulfurous acid, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ester				
	V		33.8			[1975DEM/KOV2]
C_3HF_8NOS	[34556-23-5]	*S*-(pentafluoroethyl)-*S*-(trifluoromethyl)sulfoximine				
	V		36.3	358	I	[1972SAU/SHR]
$C_3HF_8NO_2$	[60247-19-0]	*N*-[difluoro[(trifluoromethyl)dioxy]methyl]-1,1,1-trifluoromethanamine				
	V		37.5			[1976FAL/DES3]
$C_3HF_9N_2$	[13105-67-4]	tris(trifluoromethyl)hydrazine				
	V	(238–307)	29.9	273		[1966DOB/EME]
$C_3HF_{11}S$	[68010-34-4]	pentafluoro [2,2,2-trifluoro-1-(1-trifluoromethyl)ethyl]sulfur				
	V		30.1			[1978DEM/FOX]
C_3HN	[68010-34-4]	cyanoacetylene				
	FUS		14.1		S-V	[1963DAN/FLU]
	SUB	(247–279)	42.3	264	A	[1987STE/MAL, 1963DAN/FLU]
	V	(279–315)	28.1	294	A	[1987STE/MAL, 1963DAN/FLU]
$C_3H_2ClF_3$	[2730-43-0]	1-chloro-3,3,3-trifluoro-1-propene				
	V	(263–352)	26.3	308		[2012HUL/BAS]
$C_3H_2ClF_3$	[2730-62-3]	2-chloro-3,3,3-trifluoro-1-propene				
	V	(263–373)	24.3	298	Static	[2014ZHA/WEI, 2013ZHA/YAN]
$C_3H_2ClF_5$	[460-92-4]	3-chloro-1,1,1,3,3-pentafluoropropane				
	FUS		10.47	165.4		[1996DOM/HEA, 1974VOR/KOL]
$C_3H_2ClF_5O$	[13838-16-9]	1-chloro-1,2,2-trifluoro-2-(difluoromethoxy)ethane				
	V	(274–351)	33.8	289		[1988AMB/GHI2]
	V	(290–329)	32.9	305	A	[1987STE/MAL, 1978ROD/HIL]
	V		32.6 ± 0.1	298	C	[1984UCH/MAJ]
	V		31.3 ± 0.1	313	C	[1984UCH/MAJ]
	V		30.2 ± 0.1	328	C	[1984UCH/MAJ]
	V		29.1 ± 0.1	343	C	[1984UCH/MAJ]
$C_3H_2ClF_5O$	[26675-46-7]	2-chloro-1,1,1-trifluoro-2-(difluoromethoxy)ethane				
	V	(280–344)	31.7	295		[1988AMB/GHI2]
	V	(283–312)	31.9	297	A	[1987STE/MAL, 1978ROD/HIL]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3H_2Cl_2F_4$	[64712-27-2]	3,3-dichloro-1,1,1,3-tetrafluoropropane				
	V	(297–333)	31.7	312	A	[1987STE/MAL, 1976VAR/BUL]
$C_3H_2Cl_2F_4O$	[37031-38-2]	2-chloro-1,1,2-trifluoroethyl chlorofluoromethyl ether				
	V		37.5 ± 0.1	298	C	[1984MAJ/UCH]
	V		36.4 ± 0.1	313	C	[1984MAJ/UCH]
	V		35.3 ± 0.1	328	C	[1984MAJ/UCH]
	V		34.1 ± 0.1	343	C	[1984MAJ/UCH]
	V		32.9 ± 0.1	353	C	[1984MAJ/UCH]
$C_3H_2Cl_3F_3$	[7125-84-0]	1,1,1-trichloro-3,3,3-trifluoropropane				
	FUS	(12–300)	14.07	232.7	AC	[1991ACR, 1971KOL/VOL]
	V		36.8 ± 0.1	298	C	[2007VAR/DRU]
	V	(320–365)	35.2	335	A	[1987STE/MAL]
$C_3H_2Cl_4$	[60320-18-5]	1,1,2,3-tetrachloropropylene				
	V	(347–416)	42.9	362	A	[1987STE/MAL]
	V	(348–416)	43.4	382		[1969OTO/BES]
$C_3H_2Cl_2F_4$	[64712-27-2]	1,1,1,3-tetrafluoro-3,3-dichloropropane				
	V	(297–333)	31.9 ± 0.5	298		[2007VAR/DRU]
$C_3H_2Cl_2N_2$	[15965-30-7]	4,5-dichloroimidazole				
	SUB	(338–395)	94.5 ± 0.8	298	Static	[2012ALM/MON]
$C_3H_2D_5N$	[153557-95-0]	cyclopropanamine (D_5)				
	V	(283–330)	31.7	298		[1993WOL/KIM]
C_3H_2FNOS	[459-71-2]	fluoracetyl isothiocyanate				
	V	(273–353)	49.3	288	A	[1987STE/MAL, 1970DYK, 1999DYK/SVO]
$C_3H_2F_6$	[690-39-1]	1,1,1,3,3,3-hexafluoropropane				
	V	(283–323)	24.5	303	A	[2000BOB/CAM]
$C_3H_2F_6N_2S$	[38005-20-8]	amino (hexafluoroisopropylidenimino) sulfur				
	V		37.7	388	I	[1972MET/SHR]
$C_3H_2F_6N_2S$	[62067-09-8]	2,2,2-trifluoro-*N*-[(trifluoromethyl)thiol]ethanimidamide				
	V	(322–390)	39.8	337	A, I	[1987STE/MAL, 1977BUR/SHR2, 1999DYK/SVO]
$C_3H_2F_6O$	[57041-67-5]	2-(difluoromethoxy)-1,1,1,2-tetrafluoroethane				
	V	(274–311)	24.9	293	I	[1996SUS/SMI]
$C_3H_2F_6O$	[920-66-1]	1,1,1,3,3,3-hexafluoro-2-propanol				
	V	(294–330)	40.2	309	A, MM	[1987STE/MAL, 1973ROC/SYM]
	V	(294–330)	41.6	298	MM	[1973ROC/SYM]
	V	(273–296)	47.3	284		[1967VAN/SOC]
$C_3H_2F_6O_2$	[30957-44-9]	bis-(difluoromethoxy)difluoromethane				
	FUS		7.2	153	DSC	[1999MAR/BAS]
	V	(243–308)	31.5 ± 0.4			[1999MAR/BAS]
$C_3H_2F_6O_2S$	[30957-44-9]	trifluoormethanesulfinic acid, 2,2,2-trifluoromethyl ester				
	V		36.8	363		[1971SAU/SHR2]
$C_3H_2F_8N_2S$	[2433-66-1]	*S*,*S*-difluoro-*N*-[1-amino-2,2,2-trifluoro-1-(trifluoromethyl)ethyl]sulfilimine				
	V	(295–313)	38.7	304	A	[1987STE/MAL, 1969GLE/VON, 1999DYK/SVO]
$C_3H_2N_2$	[109-77-3]	malononitrile				
	TRS		0.43	260.9		
	FUS		10.7	305	DSC	[2007BAD/BLA]
	FUS	(6–319)	10.8	305	AC	[1996DOM/HEA, 1968GIR/WES]
	SUB	(278–299)	78.2 ± 1.0	298		[1990BEC/DOG]
	SUB		79.1 ± 8		ME	[1967BOY/GUH, 1970COX/PIL]
$C_3H_2N_2O_3$	[120-89-8]	imidazolidine-2,4,5-trione (parabanic acid)				
	TRS		2.1	392.3		
	FUS (decomp)	(263–473)			DSC	[2008RIB/RIB2]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(381–406)	114.6 ± 0.6	393.7	ME	[2008RIB/RIB2]
	SUB	(381–406)	119.4 ± 0.6	298	ME	[2008RIB/RIB2]
$C_3H_2N_4O_4$	[5213-49-0]	2,5-dinitroimidazole				
	SUB		112.1 ± 0.8	298		[2003MIR/LEB]
$C_3H_2N_4O_4$	[38858-92-3]	3,4-dinitro-1*H*-pyrazole				
	SUB		112.5 ± 0.8	298		[2003MIR/LEB]
$C_3H_2OS_2$	[2314-40-1]	1,3-dithiol-2-one				
	SUB		73.6 ± 0.8	298		[1973RAU/GEI, 1977PED/RYL]
$C_3H_2OS_3$	[930-35-8]	1,3-dithiole-2-thione				
	SUB		75.4 ± 0.4	298		[1973RAU/GEI, 1977PED/RYL]
$C_3H_2O_3$	[872-36-6]	vinylene carbonate				
	V	(308–350)	46.9	323	A	[1987STE/MAL]
	V	(308–400)	41.3		MM	[1971CHO/JON]
C_3H_3Cl	[7747-84-4]	1-chloro-1-propyne				
	V	(200–289)	28.3	274	A	[1987STE/MAL]
$C_3H_3ClF_4$	[421-73-8]	2-chloro-1,1,1,2-tetrafluoropropane				
	V	(268–349)	24.6	298		[2014YAN/KOU]
$C_3H_3Cl_2F_3$	[460-69-5]	1,1-dichloro-3,3,3-trifluoropropane				
	TRS		0.2	167.7		
	FUS		10.13	182.2	AC	[1996DOM/HEA, 1972KOL/VOR, 1972VOR/KOL]
	V		34.1 ± 0.1	298	C	[2007VAR/DRU]
	V	(301–342)	33.7	316	A	[1987STE/MAL]
$C_3H_3Cl_2F_3O$	[428-92-2]	2-chloro-1,1,2-trifluoroethyl chloromethyl ether				
	V		42.4 ± 0.1	298	C	[1984UCH/MAJ]
	V		41.2 ± 0.1	313	C	[1984UCH/MAJ]
	V		40.1 ± 0.1	328	C	[1984UCH/MAJ]
	V		39.0 ± 0.1	343	C	[1984UCH/MAJ]
	V		37.8 ± 0.1	358	C	[1984UCH/MAJ]
$C_3H_3Cl_3O_2$	[598-99-2]	methyl trichloroacetate				
	V		48.3 ± 0.1	298	C	[1972LAY/WAD]
$C_3H_3Cl_5$	[16714-68-4]	1,1,2,2,3-pentachloropropane				
	V	(365–447)	46.3	380	A	[1987STE/MAL, 1970DYK]
	V	(365–446)	45.5	405		[1969OTO/BES]
$C_3H_3F_2P$	[37805-59-7]	1-propnyl difluorophospine				
	V	(228–278)	32.7	253		[1973LIN/CEN]
$C_3H_3F_3$	[677-21-4]	3,3,3-trifluoro-1-propene				
	V	(283–363)	22.0	298	A	[1987STE/MAL]
$C_3H_3F_3O_3$	[33017-08-2]	peroxyacetic acid, trifluoromethyl ester				
	V		32.5			[1971BER/HOH]
$C_3H_3F_4I$	[1737-76-4]	1,1,1,2-tetrafluoro-3-iodopropane				
	V	(295–356)	28.4	310	A	[1987STE/MAL, 1970HAS/KEE]
$C_3H_3F_4I$	[460-74-2]	1,1,1,3-tetrafluoro-3-iodopropane				
	V	(301–356)	31.2	316	A	[1987STE/MAL, 1970HAS/KEE]
$C_3H_3F_4NO_2$	[72316-36-0]	methoxy (trifluoromethyl)carbamic fluoride				
	V		27.8			[1979SEK/DES]
$C_3H_3F_5$	[679-86-7]	1,1,2,2,3-pentafluoropropane				
	V	(258–353)	30.2	273	A	[2002DIN/PAS]
$C_3H_3F_5$	[1814-88-6]	1,1,1,2,2-pentafluoropropane				
	V	(232–283)	22.9	268	A	[1987STE/MAL, 1970DYK]
	V	(233–379)	23.0	248		[1967SHA]
$C_3H_3F_5O$	[422-05-9]	2,2,3,3,3-pentafluoro-1-propanol				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–297)	47.0	285	A, MM	[1987STE/MAL, 1967MEE/GOL, 1984BOU/FRI]
	V		44.4	298	MM	[1973ROC/SYM, 1967MEE/GOL]
	V		41.3	298		[1967MUR/KIV]
$C_3H_3F_5O$	[37031-31-5]	1,1,2,2-tetrafluoro-1-(fluoromethoxy)ethane				
	V	(288–317)	33.5	303	I	[2002MUR/YAM]
$C_3H_3F_6NOS$	[34556-25-7]	*N*-methyl-*S*,*S*-bis(trifluoromethyl)sulfoximine				
	V		30.7	338	I	[1972SAU/SHR]
$C_3H_3F_6NS$	[13105-12-9]	*N*,*N*-bis(trifluoromethyl)methanesulfenamide				
	V	(269–309)	31.1	284	A,T	[1987STE/MAL, 1966EME/TAT]
$C_3H_3F_6OPS$	[71040-58-9]	phosphinothioic acid, bis(trifluoromethyl)-,O-methyl ester				
	V	(263–333)	35.1	298		[1979CAV/PIN]
$C_3H_3F_6OPS$	[71009-87-5]	phosphinothioic acid, bis(trifluoromethyl)-,S-methyl ester				
	V	(293–353)	33.8	318		[1979CAV/PIN]
$C_3H_3F_6O_2P$	[25439-11-6]	bis(trifluromethyl)phosphinic acid, methyl ester				
	V	(258–313)	40.5	273	A	[1987STE/MAL, 1969BUR/MIS]
$C_3H_3F_6PS$	[1486-18-6]	bis(trifluoromethyl) methylthiophosphine				
	V	(273–321)	36.9	297	T	[1964CAV/EME]
$C_3H_3F_6PS_2$	[18799-79-6]	bis(trifluromethyl)dithiophosphinic acid, methyl ester				
	V	(273–344)	41.5	288	A	[1987STE/MAL, 1999DYK/SVO, 1968GOS/BUR]
C_3H_3N	[107-13-1]	acrylonitrile				
	TRS		1.19	162.5		
	FUS		6.23	189.6		[1996DOM/HEA, 1972FIN/MES]
	V	(257–352)	33.6	272	A	[1987STE/MAL]
	V	(283–343)	31.6	298	A	[1987STE/MAL]
	V	(222–351)	35.5	237		[1964SEV/SOK]
	V	(293–343)	32.9	308		[1964GUB/FER]
	V	(273–353)	32.6			[1945DAV/WIE]
C_3H_3NO	[288-42-6]	oxazole				
	V	(293–344)	34.6	308	A, EB	[1987STE/MAL, 1975SOU/BAR]
	V		32.5 ± 0.1	298	C	[1978MCC/HAM]
C_3H_3NO	[288-14-2]	isoxazole				
	V	(314–404)	37.2 ± 0.2	298	EB	[1996STE/CHI3]
	V	(314–404)	37.1 ± 0.2	300	EB	[1996STE/CHI3]
	V	(314–404)	35.1 ± 0.2	340	EB	[1996STE/CHI3]
	V	(314–404)	33.0 ± 0.2	380	EB	[1996STE/CHI3]
	V		36.5 ± 0.1	298	C	[1978MCC/HAM]
$C_3H_3NO_2$	[17640-15-2]	cyanoformic acid, methyl ester				
	V	(273–333)	39.3	288	A	[1987STE/MAL, 1970DYK, 1948RED/CHA5]
C_3H_3NS	[288-47-1]	thiazole				
	FUS		9.58	239.4		[1968GOU/WES2, 1966MEY/MET]
	V	(333–393)	39.7	348	A	[1987STE/MAL]
	V	(336–391)	38.9	351	A	[1987STE/MAL, 1969SOU/GOU2]
$C_3H_3N_3$	[290-87-9]	1,3,5-triazine				
	TRS	(12–347)	0.07	197.7		
	FUS	(12–347)	14.56	353.4	AC	[1991ACR, 1988VAN/VAN]
	TRS	(134–382)	0.07	197.6		
	FUS	(134–382)	14.58	353.9	C	[1979BRI/VAN]
	TRS	(100–355)	0.02	198.1	AC	[1978SMI/RAE]
	SUB	(212–229)	58.2	222	TE, ME	[1983DEW/VAN]
	SUB		54.2 ± 0.2	298	C	[1982BYS]
[Note: In [1982BYS] the author quotes an unpublished calorimetric value of *SUB* 55.2 ± 0.2 kJ/mole determined by K. Arvidsson.]						
	SUB	(283–313)	56.5 ± 2.1			[1982INI/LOP]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(242–264)	U43.1	253	ME	[1968MAS/RAE]
	V	(342–373)	38.8 ± 1.9	298	CGC	[2009LIP/CHI2, 2009LIP/CHI]
$C_3H_3N_3O_2$	[461-89-2]	6-azauracil				
	SUB	452.6	118.1 ± 2.0	298	C	[2016AMA/SZT]
	SUB	(377–399)	119.1 ± 1.7	388	ME	[2016AMA/SZT]
	SUB	(377–399)	120.7 ± 1.7	298	ME	[2016AMA/SZT]
	SUB		141		LE	[1974YAN/VER]
$C_3H_3N_3O_3$	[108-80-5]	cyanuric acid				
	SUB	(440–473)	131	458	ME,TE	[1983DEW/VAN]
	SUB		133	298		[1983DEW/VAN]
$C_3H_3N_3O_3$	[77666-53-6]	3-methyl-4-nitrofurazan				
	V		51.9 ± 0.9	298	C	[2012KON/MAT]
$C_3H_3N_5O_{10}$	[62626-83-9]	1,1,1,2,2-pentanitropropane				
	SUB		77.4 ± 1.3	298		[1999MIR/VOR]
C_3H_4	[463-49-0]	allene				
	V	(136–274)	22.6	259	A	[1987STE/MAL]
	V	(193–246)	19.9	231	A	[1987STE/MAL]
	V	(153–238)	21.3	223		[1947STU]
	V	(138–189)	22.9	174		[1940LAM/ROP, 1984BOU/FRI]
	V	(203–236)	20.9	220	MM	[1930LIV/HEI]
	V	(200–260)	21.5	245		[1921MAA/WRI, 1984BOU/FRI]
C_3H_4	[74-99-7]	1-propyne				
	V	(183–257)	23.0	242	A	[1987STE/MAL]
	V	(257–402)	20.8	272	A	[1987STE/MAL]
	V	(303–361)	21.2	318	A	[1987STE/MAL]
	V	(359–402)	21.9	374	A	[1987STE/MAL]
	V	(249–306)	23.2	264	A	[1987STE/MAL]
	V		22.1	275		[1971WIL/ZWO]
	V	(162–255)	23.9	240		[1967VAN]
	V	(323–400)	21.6	338		[1962VOH/KAN]
	V	(194–250)	23.4	235		[1933BOO/BUR, 1984BOU/FRI]
	V	(200–260)	21.4	230		[1921MAA/WRI]
$C_3H_4Br_2$	[513-31-5]	2,3-dibromopropylene				
	V	(267–415)	43.1	282	A	[1987STE/MAL, 1947STU]
$C_3H_4Br_4$	[54268-02-9]	1,2,2,3-tetrabromopropane				
	V	(418–580)	57.7	433	A	[1987STE/MAL, 1970DYK]
$C_3H_4ClFO_3$	[462-27-1]	carbonochloridic acid, 2-fluoroethyl ester				
	V	(273–333)	46.6	288	GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_3H_4ClF_3$	[460-35-5]	1-chloro-3,3,3-trifluoropropane				
	TRS		4.49	169.8		
	FUS		5.31	179.4		[1996DOM/HEA, 1974KOL/VOR]
	V	(297–315)	29.9	306	A	[1987STE/MAL]
	V	(301–341)	33.7	316		[1972VAR/DRU]
$C_3H_4ClF_3O$	[425-87-6]	2-chloro-1,1,2-trifluoroethyl methyl ether				
	V		34.4 ± 0.1	298	C	[1984MAJ/UCH]
	V		33.4 ± 0.1	313	C	[1984MAJ/UCH]
	V		31.1 ± 0.1	343	C	[1984MAJ/UCH]
$C_3H_4ClF_3O_2S$	[61915-99-9]	trifluoromethanesulfinic acid, 2-chloroethyl ester				
	V	(320–403)	40.5	335	I	[1987STE/MAL, 1977BUR/SHR, 1999DYK/SVO]
$C_3H_4Cl_2F_2O$	[76-38-0]	2,2-dichloro-1,1-difluoro-1-methoxyethane				
	V	(279–378)	40.3	294	A	[1987STE/MAL, 1970HER]
$C_3H_4Cl_2O$	[513-88-2]	1,1-dichloroacetone				
	V	(292–382)	35.8	307	A	[1987STE/MAL, 1970SMI/THO]
$C_3H_4Cl_2O$	[534-07-6]	1,3-dichloroacetone				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(348–445)	49.6	363	A	[1987STE/MAL, 1970SMI/THO]
$C_3H_4Cl_2O_2$	[116-54-1]	methyl dichloroacetate				
	V		47.7 ± 0.1	298	C	[1972LAY/WAD]
	V	(331–481)	44.9	346	A	[1987STE/MAL, 1970DYK]
	V	(276–416)	47.2	291		[1947STU]
$C_3H_4Cl_4$	[812-03-3]	1,1,1,2-tetrachloropropane				
	V	(331–469)	42.3	346	A	[1987STE/MAL, 1970DYK]
$C_3H_4Cl_4$	[1070-78-6]	1,1,1,3-tetrachloropropane				
	TRS		2.2	219.9		
	FUS		10.49	237.7		[1996DOM/HEA, 1974KOL/VOR]
	V	(300–377)	57.8	315	A	[1987STE/MAL]
$C_3H_4Cl_4$	[13116-53-5]	1,2,2,3-tetrachloropropane				
	V	(346–415)	42.8	361	A	[1987STE/MAL]
	V	(335–415)	42.9	375		[1969OTO/BES]
$C_3H_4F_2O_2$	[433-53-4]	methyl difluoroacetate				
	V	(273–333)	41.9	288	GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_3H_4F_4O$	[32778-16-8]	2-difluoromethoxy-1,1-difluoroethane				
	V	(288–328)	32.9	303	I	[2002MUR/YAM]
$C_3H_4F_4O$	[76-37-9]	2,2,3,3-tetrafluoro-1-propanol				
	V	(303–380)	47.9	318	A	[1987STE/MAL]
	V	(298–333)	50.3	313	MM	[1973ROC/SYM]
	V	(298–333)	53.6	298	MM	[1973ROC/SYM]
$C_3H_4F_6NOP$	[31411-29-7]	*N*-methyl-*P*,*P*-bis(trifluoromethyl)phosphinic amide				
	V	(293–342)	40.3			[1971CAV/CHA]
$C_3H_4N_2$	[288-32-4]	imidazole				
	FUS		13.1	359.3	DSC	[2012ALM/MON]
	FUS		11.18	362.3	DSC	[2002DOM/KOZ2]
	FUS		12.5	363.2	DSC	[1989HIL/MOU]
	FUS	(90–370)	12.82	361.9	AC	[1996DOM/HEA, 1983DEW/DEK, 1983DEW/OFF]
	SUB	(304–358)	81.4 ± 0.1	360		[2012ALM/MON]
	SUB	(304–358)	82.5 ± 0.1	298		[2012ALM/MON]
	SUB	(292–309)	83.1 ± 0.2	300	ME	[1987JIM/ROU]
	SUB		83.1 ± 0.2	298	ME	[1986JIM/ROU]
	SUB	(288–310)	80.8	301	ME,TE	[1983DEW/VAN]
	SUB		74.5 ± 0.4	298	C	[1980SAB2]
	SUB		85.3	298		[1961ZIM/GEI]
	V	(334–385)	67.3 ± 0.4	360		[2012ALM/MON]
	V	(334–385)	71.3 ± 0.4	298		[2012ALM/MON]
$C_3H_4N_2$	[288-13-1]	pyrazole				
	FUS		14.2	343.2	DSC	[1996DOM/HEA, 1989HIL/MOU]
	FUS	(300–385)	13.8	333.1	DSC	[1983DEW/OFF]
	SUB	(268–287)	74.3 ± 0.4	275	ME	[1987JIM/ROU]
	SUB		74.0 ± 0.4	298		[1987JIM/ROU, 1986JIM/ROU]
	SUB	(253–273)	72.7	265	TE, ME	[1983DEW/VAN]
	SUB		69.2 ± 0.3	298	C	[1980SAB2]
	SUB		71.8			[1979DAA/VAN]
	SUB		67.7			[1961ZIM/GEI]
$C_3H_4N_2O$	[107-91-5]	2-cyanoacetamide				
	FUS		18.81	394.7	DSC	[2013SIN/PAN]
	FUS		18.97	394.2	DSC	[2011SIN/RAI]
	TRS	(300–420)	1.2	346.5		
	FUS	(300–420)	21.7	387.3	DSC	[1996DOM/HEA, 1983DEW/OFF]
	SUB	(325–348)	99.7	336	TE, ME	[1983DEW/VAN]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3H_4N_2OS$	[503-87-7]	2-thioxo-4-imidazolidinone				
	FUS	(298–500)	27.1	506.1	DSC	[2013SIL/CIM2]
	SUB		117.2 ± 0.5	399	ME	[2013SIL/CIM2]
	SUB		119.1 ± 0.4	298	ME	[2013SIL/CIM2]
	SUB		115.0 ± 2.1	298	C	[2013SIL/CIM2]
$C_3H_4N_2O_2$	[461-72-3]	2,4-imidazolidinedione				
	FUS	(298–500)	24.8	495.8	DSC	[2013SIL/CIM2]
	SUB		114.6 ± 1.0	389	ME	[2013SIL/CIM2]
	SUB		116.3 ± 1.0	298	ME	[2013SIL/CIM2]
	SUB		113.3 ± 3.1	298	C	[2013SIL/CIM2]
$C_3H_4N_2O_4$	[4122-45-6]	3-nitro-2-isoxazoline-2-oxide				
	SUB		71.1 ± 8.4			[1977PED/RYL, 1969MIR/LEB]
$C_3H_4N_2S$	[96-50-4]	2-aminothiazole				
	SUB	(295–303)	85.2 ± 1.6	299	ME	[2014SIL/MON]
	SUB	(295–303)	85.2 ± 1.6	298	ME	[2014SIL/MON]
	SUB		85.9 ± 1.0	298	C	[2014SIL/MON]
$C_3H_4N_2S$	[872-35-5]	1,3-dihydro-2*H*-imidazole-2-thione				
	FUS		17.5	503.5	DSC	[2016SIL/MOR]
	SUB		114.4 ± 1.3	298	C	[2016SIL/MOR]
$C_3H_4N_4O_2$	[107945-73-3]	2-methyl-4-nitro-1,2,3-triazole				
	SUB	(288–314)	74.6 ± 3.1	301	ME	[2008MAT/IVA]
	SUB	(288–314)	74.7 ± 3.1	298	ME	[2008MAT/IVA]
$C_3H_4N_4O_6$	[97645-24-4]	1,3,3-trinitroazetidine				
	FUS		25.9	372.9	DSC	[2010SHA/REN]
	FUS		29.0	373.8		[2003SUC/RAJ]
	FUS		30.31	375.5	DSC	[1996ZHA/HU, 1997ZHA/HU]
	SUB		95.3	373.8	F + V	[2003SUC/RAJ]
	V	(373–413)	66.8	393		[2003SUC/RAJ]
C_3H_4O	[107-02-8]	acrolein				
	V	(250–306)	32.3	265	A	[1987STE/MAL]
	V	(304–325)	30.9	314		[1979MAR/SAC]
	V	(208–326)	33.5	223	A	[1987STE/MAL, 1947STU]
C_3H_4O	[107-19-7]	propargyl alcohol (2-propyn-1-ol)				
	V	(293–387)	42.0	308	A	[1987STE/MAL]
$C_3H_4OS_2$	[2080-58-2]	1,3-dithiolan-2-one				
	SUB		80.3 ± 0.4			[1973RAU/GEI, 1977PED/RYL]
$C_3H_4O_2$	[79-10-7]	acrylic acid				
	FUS		11.40	286.35	DSC	[2010HEN/CAM]
	FUS		11.16	285.5		[1991ACR, 1983WEA]
	FUS		9.51	285.7	AC	[1985KAR/ABD]
	V		53.1 ± 4.2	298	C	[1996VAN/YU]
	V		57.3	298		[1980VIL/PER]
	V	(341–414)	45.3	356	A	[1987STE/MAL, 1973LIN/WIC]
	V	(293–343)	32.7	308		[1964GUB/FER]
$C_3H_4O_2$	[57-57-8]	β-propiolactone (2-oxetanone)				
	FUS	(14–341)	9.41	239.9	AC	[1996DOM/HEA, 1983LEB/YEV]
	V	(324–435)	46.4	339	A	[1987STE/MAL]
	V		47.0 ± 0.1	298	C	[1966BOR/NAK]
$C_3H_4O_2S$	[7285-32-7]	thiete sulfone (2*H*-thiete-1,1-dioxide)				
	SUB		83.7 ± 2.5		B	[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_3H_4O_3$	[96-49-1]	ethylene carbonate				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		13.02	311.2	DSC	[2004DIN]
	FUS		13.3	309.5		[1973VAS/KOR]
	SUB	(273–297)	68.7	285	A	[1987STE/MAL]
	SUB	(274–297)	78.5 ± 4.2			[1971CHO/JON, 1977PED/RYL]
	SUB		73.2 ± 2.5			[1970COX/PIL, 1958HOY/PEP]
	V	(310–369)	60.8 ± 0.1	298	GS	[2008VER/TOK]
	V	(451–505)	64.0 ± 0.1	298	EB	[2004CHE/CLE, 2008VER/TOK]
	V	(381–437)	59.6	396	A	[1987STE/MAL]
	V	(368–449)	60.3	383	EB	[1982HON/WAK]
	V	(368–449)	56.3	423	EB	[1982HON/WAK]
	V	(368–433)	55.0	433	EB	[1982HON/WAK]
	V	(382–437)	63.4 ± 0.3	298	EB	[1975PET/SAN, 2008VER/TOK]
	V		62.4	298	EB	[1958PEP, 2008VER/TOK]
$C_3H_4O_3$	[127-17-3]	pyruvic acid				
	V	(294–438)	51.4	309	A	[1987STE/MAL, 1947STU]
$C_3H_4O_4$	[141-82-2]	malonic acid				
	FUS		18.74	406	DSC	[2010BOO/BAR]
	FUS		23.1	407.5	DSC	[2004HAN/BEY]
	TRS	(13–371)	0.02	47.3		
	TRS	(13–371)	1.84	352.2	AC	[1991FUK/MAT]
[Note: Authors of [1991FUK/MAT] did not determine the enthalpy of fusion.]						
	SUB		91 ± 4		ME, MS	[2009BOO/MAR]
	SUB	(339–357)	108.9 ± 0.7	348	ME	[1999RIB/MON]
	SUB	(339–357)	111.4 ± 0.7	298	ME	[1999RIB/MON]
	SUB	(291–320)	72.7	306	A	[1987STE/MAL, 1947GRA]
	SUB		105.1 ± 0.8		C	[1983ALT/PIL]
$C_3H_4O_5$	[80-69-3]	tartronic acid (2-hydroxymalonic acid)				
	FUS		30.62	428	DSC	[2010BOO/BAR]
	SUB		116.4 ± 0.3		C	[1983ALT/PIL]
$C_3H_4S_3$	[822-38-8]	1,3-dithiolan-2-thione				
	V	(294–303)	82.9	298		[1999DYK/SVO]
	SUB	(294–303)	81.8 ± 0.8	298		[1967GEI/SCH, 1970COX/PIL]
C_3H_5Br	[106-95-6]	allyl bromide				
	V	(297–338)	32.2	312	A, EB	[1987STE/MAL, 1977SVO/MAJ]
	V		31.7 ± 0.1	318	C	[1977SVO/MAJ]
	V		31.0 ± 0.1	330	C	[1977SVO/MAJ]
	V		30.4 ± 0.1	341	C	[1977SVO/MAJ]
C_3H_5Br	[590-14-7]	*cis*-1-bromopropylene				
	V	(257–366)	32.0	272	A	[1987STE/MAL, 1970DYK]
C_3H_5Br	[590-14-7]	*trans*-1-bromopropylene				
	V	(262–372)	32.5	277	A	[1987STE/MAL, 1970DYK]
$C_3H_5Br_3$	[96-11-7]	1,2,3-tribromopropane				
	FUS		23.78	289.4		[1991ACR, 1983WEA]
	V	(390–595)	50.8	405	A	[1987STE/MAL]
	V	(400–478)	50.2	415		[1949DRE/SHR, 1949DRE/MAR, 1984BOU/FRI]
C_3H_5Cl	[107-05-1]	allyl chloride (3-chloro-1-propene)				
	V	(203–318)	33.1	218	A	[1987STE/MAL]
	V	(276–320)	29.9	298		[1960DYK/PAU]
	V	(286–317)	30.0	301		[1944IOF/YAM, 1984BOU/FRI]
C_3H_5Cl	[590-21-6]	1-chloropropene				
	V	(191–310)	29.5	206		[1947STU]
C_3H_5Cl	[16136-84-8]	*cis*-1-chloropropene				
	V	(276–332)	27.9	291		[2001HOR/GAR]
	V	(237–338)	29.2	252	A	[1987STE/MAL, 1970DYK]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_3H_5Cl	[16136-85-9]	*trans*-1-chloropropene				
	V	(277–340)	28.5	292		[2001HOR/GAR]
	V	(241–343)	29.7	256	A	[1987STE/MAL, 1970DYK]
C_3H_5Cl	[557-98-2]	2-chloropropene				
	V	(229–327)	28.0	244	A	[1987STE/MAL, 1970DYK]
C_3H_5ClO	[106-89-8]	epichlorohydrin				
	V	(316–388)	40.4	331	EB	[2007PAL/ORA2]
	V	(256–391)	42.9	272		[1947STU]
C_3H_5ClO	[78-95-5]	chloroacetone				
	V	(316–392)	40.1	331	A	[1987STE/MAL]
$C_3H_5ClO_2$	[96-34-4]	methyl chloroacetate				
	V		46.7 ± 0.1	298	C	[1972LAY/WAD]
	V	(318–402)	45.5	333	A	[1987STE/MAL, 1967GOE/SCH, 1984BOU/FRI]
	V	(298–403)	46.7	313		[1928NEL2, 1984BOU/FRI]
$C_3H_5ClO_2$	[541-41-3]	ethyl chloroformate				
	V	(281–286)	38.7 ± 0.2	283	BG	[1980DAV/FIN]
	V	(281–286)	37.8 ± 0.2	298	BG	[1980DAV/FIN]
$C_3H_5ClO_2$	[29617-66-1]	(*S*)-2-chloropropionic acid				
	V	(287–328)	63.4	308	GS	[2002LAG/DIO]
	V	(287–328)	64.9 ± 0.5	298	GS	[2002LAG/DIO]
$C_3H_5Cl_3$	[7789-89-1]	1,1,1-trichloropropane				
	V	(244–382)	38.8	259	A	[1987STE/MAL, 1947STU]
$C_3H_5Cl_3$	[20395-25-9]	1,1,3-trichloropropane				
	V	(328–464)	41.8	343	A	[1987STE/MAL, 1970DYK]
$C_3H_5Cl_3$	[96-18-4]	1,2,3-trichloropropane				
	V		47.8 ± 0.1	298	C	[1989AN/HU]
	V	(337–477)	43.0	352	A	[1987STE/MAL, 1970DYK]
	V	(361–429)	43.0	376		[1959URB]
	V	(282–431)	46.8	297		[1947STU]
C_3H_5FO	[503-09-3]	1,2-epoxy-3-fluoropropane				
	V	(273–333)	39.9	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_3H_5FO_2$	[453-18-9]	methyl fluoroacetate				
	V	(273–333)	42.7	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1970DYK]
$C_3H_5F_3O$	[428-66-0]	1,1,2-trifluoro-1-methoxyethane				
	V	(276–317)	31.1	291	I	[2002MUR/YAM]
$C_3H_5F_3O$	[374-01-6]	1,1,1-trifluoro-2-propanol				
	V	(292–333)	44.2	307	A, MM	[1987STE/MAL, 1973ROC/SYM, 1984BOU/FRI]
	V	(294–333)	44.8	298	MM	[1973ROC/SYM]
$C_3H_5F_3O_2S$	[30957-43-8]	trifluoromethylsulfinic acid, trifluoromethyl ester				
	V		37.2	370		[1971SAU/SHR2]
$C_3H_5F_3S_2$	[691-05-4]	ethyl(trifluoromethyl) disulfide				
	V	(253–303)	33.8	268	A	[1987STE/MAL, 1999DYK/SVO]
C_3H_5N	[107-12-0]	propionitrile				
	TRS		1.71	177		
	FUS	(15–297)	5.03	180.4		[1996DOM/HEA, 1962WEB/KIL]
	V	(310–353)	37.1 ± 0.3	298	EB	[2004ANT/GAL, 2005EME/VER]
	V	(288–371)	36.1	303	A	[1987STE/MAL]
	V	(308–363)	36.7	326	BG	[1971HAL/BAL]
	V		36.0 ± 0.1	298	C	[1970HOW/WAD]
	V		36.2	298	C	[1962WEB/KIL]
	V	(283–297)	36.3	290		[1962WEB/KIL]
	V	(189–295)	36.5	280	MG	[1956MIL, 1984BOU/FRI]
	V	(333–393)	35.9	298		[1950IWA, 1962WEB/KIL]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(308–370)	35.9	323		[1949DRE/SHR, 1949DRE/MAR, 1984BOU/FRI]
	V	(294–394)	36.7 ± 0.3	298	MM	[1933HEI, 2005EME/VER]
C_3H_5NO	[79-06-1]	acrylamide				
	FUS		15.33	358		[1996DOM/HEA, 1989STE/CHI2]
	SUB	(303–358)	81.8	330		[1957CAR/DAV]
	V	(357–413)	61.5	372	A	[1987STE/MAL]
	V	(373–413)	76.5	388	A	[1987STE/MAL]
	V	(388–408)	63.1	398		[1978MAT/TRA]
C_3H_5NO	[1738-36-9]	methoxyacetonitrile				
	V	(285–316)	41.7 ± 0.6	298	GS	[1995VER/BEC]
C_3H_5NO	[109-78-4]	2-cyanoethanol				
	V	(306–361)	62.3 ± 0.5	298	GS	[2007ROU/NOT]
	V	(331–494)	53.4	346	A	[1987STE/MAL]
	V	(331–494)	60.9	298		[1947STU, 2007ROU/NOT]
C_3H_5NO	[5314-33-0]	2-propenal oxime				
	V	(303–381)	42.2	318	A	[1987STE/MAL]
	V		42.7			[1963KOR/GEL]
C_3H_5NO	[930-21-2]	2-azetidinone				
	FUS		17.5	349.2	DSC	[2012EME/VER]
	SUB	(296–343)	78.1 ± 0.5	298	GS	[2012EME/VER]
	SUB	(280–298)	77.4 ± 0.3	298	ME	[1996ROU/JIM2]
	V	(351–371)	63.2 ± 0.8	298	GS	[2012EME/VER]
C_3H_5NOS	[5840-81-3]	2-mercapto-2-oxazoline				
	FUS		15.9	370	DSC	[2008TEM/ROU3]
	SUB	(325–354)	104.3 ± 4.4	340	ME	[2009ROU/TEM]
	SUB	(325–354)	105.0 ± 4.4	298	ME	[2009ROU/TEM]
$C_3H_5NO_2$	[3156-70-5]	1-nitropropylene				
	V	(301–373)	37.1	337		[1984BOS/TUR]
	V	(273–333)	44.1	288	A	[1987STE/MAL, 1970DYK, 1948RED/CHA5]
$C_3H_5NO_2$	[4749-28-4]	2-nitropropylene				
	V	(273–333)	38.2	288	A	[1987STE/MAL, 1970DYK, 1948RED/CHA5]
$C_3H_5NO_2$	[497-25-6]	dimethylene urethane (2-oxazolidinone)				
	FUS	(320–373)	17.3	360		[2004SMI/MAR]
	SUB	(323–353)	89.3 ± 0.9	298	GS	[2015EME/TUR]
C_3H_5NS	[542-85-8]	ethyl isothiocyanate				
	V	(283–404)	40.2	298	A	[1987STE/MAL]
	V	(283–323)	39.8	298		[1935BAU/BUR, 1984BOU/FRI]
C_3H_5NS	[542-90-5]	ethyl thiocyanate				
	V	(358–422)	44.2	373	A	[1987STE/MAL, 1999DYK/SVO]
$C_3H_5NS_2$	[96-53-7]	2-mercapto-2-thiazoline				
	FUS		16.8	377	DSC	[2008TEM/ROU3]
	SUB	(333–351)	99.8 ± 3.4	342	ME	[2009ROU/TEM]
	SUB	(333–351)	100.5 ± 3.4	298	ME	[2009ROU/TEM]
$C_3H_5N_3O_9$	[55-63-0]	glycerol trinitrate				
	FUS	(80–275)	20.13	275.9	AC	[1997URY/MOC]
	FUS		21.87	285.5		[1991ACR, 1983WEA]
	V		92.0 ± 2.1	298	C	[1988MIR/KOR, 2010SUC/MUS]
	V	(293–373)	104.5	308	A	[1987STE/MAL]
	V	(293–333)	100.2	313		[1959VAC/STA]
	V	(400–524)	58.6	415		[1947STU]
C_3H_5P	[114596-02-0]	2-propynylphosphine				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(228–273)	36.8	250		[1988SHA/DIE]
C_3H_6	[75-19-4]	cyclopropane				
	FUS		5.44	145.6		[1996DOM/HEA, 1946RUE/POW]
	SUB		29.2	145	B	[1963BON]
	SUB	(115–141)	28.2	128	A,MS	[1951TIC/LOS]
	V	(195–225)	21.8	210		[1997CAL/FIL]
	V	(358–398)	20.4	373	A	[1987STE/MAL]
	V	(297–359)	19.9	312	A	[1987STE/MAL]
	V	(188–239)	20.3	224	A	[1987STE/MAL]
	V	(239–298)	19.9	254	A	[1987STE/MAL]
	V		17.02	298		[1970LIN/SIL]
	V	(276–388)	20.4	332		[1958BOO/MOR]
	V	(183–241)	21.1	226		[1946RUE/POW, 1984BOU/FRI]
	V		20.1	240	C	[1946RUE/POW]
C_3H_6	[115-07-1]	propylene				
	FUS		3.00	87.9		[1939POW/GIA]
	FUS		2.93	88.2	C	[1996DOM/HEA, 1931HUF/PAR]
	V	(297–363)	18.7	312	A	[1987STE/MAL]
	V	(104–161)	22.2	146	A	[1987STE/MAL]
	V	(228–271)	18.7	256	A	[1987STE/MAL]
	V	(270–327)	18.5	285	A	[1987STE/MAL]
	V	(325–363)	18.8	340	A	[1987STE/MAL]
	V	(161–242)	19.2	227	A	[1987STE/MAL, 1970DYK]
	V	(298–423)	18.7	360		[1953MIC/WAS]
	V	(166–226)	19.6	211		[1939POW/GIA]
	V	(236–283)	19.3	268		[1921MAA/WRI, 1984BOU/FRI]
C_3H_6BrCl	[109-70-6]	1-bromo-3-chloropropane				
	V	(326–488)	42.0	341	A	[1987STE/MAL, 1970DYK]
C_3H_6BrNO	[7119-91-7]	2-bromo-2-nitrosopropane				
	V	(239–356)	41.0	254	A	[1987STE/MAL, 1970DYK]
$C_3H_6Br_2$	[598-17-4]	1,1-dibromopropane				
	V	(322–449)	42.5	337	A, E	[1987STE/MAL, 1956MAN, 1970DYK]
$C_3H_6Br_2$	[78-75-1]	1,2-dibromopropane				
	V	(312–403)	41.4	327	A	[1987STE/MAL]
	V	(310–400)	42.2	298		[1991BAS/SVO, 1975PIS/ROZ2]
	V		41.7 ± 0.1	298	C	[1980VAR/PIS]
	V		42.3 ± 0.7	298	EB	[1975PIS/ROZ]
	V	(329–456)	44.6	344	A	[1987STE/MAL, 1970DYK]
	V	(266–415)	42.8	281		[1947STU]
$C_3H_6Br_2$	[109-64-8]	1,3-dibromopropane				
	FUS		14.64	238.6		[1996DOM/HEA, 1950CRO/SMY2]
	V		47.6	298	GC	[1994CAR/LAY]
	V		47.3 ± 0.1	308	C	[1992SVO/KUB2]
	V		46.7 ± 0.1	315	C	[1992SVO/KUB2]
	V		46.1 ± 0.1	323	C	[1992SVO/KUB2]
	V		45.5 ± 0.1	330	C	[1992SVO/KUB2]
	V		44.8 ± 0.1	338	C	[1992SVO/KUB2]
	V	(307–437)	46.6	322	A	[1987STE/MAL]
	V	(351–487)	47.8	366	A	[1987STE/MAL, 1970DYK]
	V	(283–440)	45.3	298		[1947STU]
$C_3H_6Br_2O$	[96-13-9]	2,3-dibromo-1-propanol				
	V	(330–492)	57.3	345	A	[1987STE/MAL, 1947STU]
$C_3H_6ClNO_2$	[594-71-8]	2-chloro-2-nitropropane				
	TRS		9.54	213.8		
	FUS		1.34	261.6		[1996DOM/HEA, 1950CRO/SMY2]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3H_6Cl_2$	[78-99-9]	1,1-dichloropropane				
	V		35.2 ± 0.4	298	C	[2007VAR/DRU]
	V	(310–360)	35.2	298		[1967HAC/MAT, 1991BAS/SVO]
	V	(282–399)	35.5	297	A, E	[1987STE/MAL, 1956MAN, 1970DYK]
$C_3H_6Cl_2$	[78-87-5]	1,2-dichloropropane				
	FUS		6.4	172.7		[1991ACR, 1983WEA]
	V	(303–368)	36.3 ± 0.5	298		[2007VAR/DRU]
	V		36.2 ± 0.1	298	C	[2007VAR/DRU]
	V	(294–406)	38.4 ± 0.3	298	EB	[1997STE/CHI3]
	V	(300–370)	36.3	298		[1991BAS/SVO]
	V		36.1 ± 0.1	298	C	[1989AN/HU]
	V	(239–373)	39.4	254	A	[1987STE/MAL]
	V	(321–369)	34.7	336		[1949DRE/SHR, 1949DRE/MAR]
	V	(288–373)	34.3	303		[1933NEL/YOU]
$C_3H_6Cl_2$	[142-28-9]	1,3-dichloropropane				
	V		41.0	298	GC	[1994CAR/LAY]
	V	(330–400)	41.0	298		[1987VAR/LOS, 1991BAS/SVO]
	V		40.6 ± 0.1	298	C	[1989AN/HU]
	V	(307–435)	39.0	322	A	[1987STE/MAL, 1970DYK]
$C_3H_6Cl_2$	[594-20-7]	2,2-dichloropropane				
	TRS	(5–301)	0.01	171.6		
	TRS	(5–301)	6.08	188.2		
	FUS	(5–301)	2.39	239.6	AC	[1999KOB/OGU]
	TRS		5.98	188.0		
	FUS		2.34	239.3		[1996DOM/HEA, 1972VAN]
	V	(295–340)	32.1	298	A	[1987VAR/LOS, 1991BAS/SVO]
	V	(267–378)	33.2	282	A	[1987STE/MAL, 1970DYK]
$C_3H_6Cl_2O$	[616-23-9]	2,3-dichloro-1-propanol				
	V	(384–419)	48.5	399	A	[1987STE/MAL]
$C_3H_6Cl_2O$	[96-23-1]	1,3-dichloro-2-propanol				
	V	(301–448)	50.4	316	A	[1987STE/MAL, 1947STU]
$C_3H_6F_2$	[430-61-5]	1,1-difluoropropane				
	V	(219–311)	27.2	234	A, E	[1987STE/MAL, 1956MAN, 1970DYK]
$C_3H_6F_2$	[420-45-1]	2,2-difluoropropane				
	V	(211–302)	25.6	226	A	[1987STE/MAL, 1970DYK]
$C_3H_6F_2O$	[461-57-4]	1,1-difluoro-2-methoxyethane				
	V	(288–322)	31.8	303	I	[2002MUR/YAM]
$C_3H_6F_3NS$	[62067-13-4]	dimethyl(trifluoromethylthio)amine				
	V	(273–329)	31.1	288	A	[1987STE/MAL, 1999DYK/SVO]
	V	(223–295)	30.2	259		[1960EME/NAB]
$C_3H_6F_3OP$	[26348-84-5]	methyl(trifluoromethyl)phosphinous acid, methyl ester				
	V	(232–285)	33.9	258		[1970BUR/KAN]
$C_3H_6F_3OP$	[26348-91-4]	dimethyl(trifluoromethyl)phosphine oxide				
	SUB	(320–341)	75.4	330		[1970BUR/KAN]
	V	(347–360)	52.4	358		[1970BUR/KAN]
$C_3H_6F_3O_2P$	[684-56-0]	(trifluoromethyl)phosphonic acid, dimethyl ester				
	V	(237–318)	37.4	252	A	[1987STE/MAL, 1961BUR/GRI]
$C_3H_6F_3PS$	[26348-86-7]	methyl(trifluoromethyl)phosphinothious acid, methyl ester				
	V	(273–313)	38.4	293		[1970BUR/KAN]
$C_3H_6F_3PS$	[26348-92-5]	dimethyl(trifluoromethyl)phosphine sulfide				
	SUB	(300–320)	68.0	310		[1970BUR/KAN]
	V	(323–357)	47.2	340		[1970BUR/KAN]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3H_6I_2$	[627-31-6]	1,3-diiodopropane				
	V		54.1	298	GC	[1994CAR/LAY]
$C_3H_6N_2O$	[120-93-4]	2-imadazolidinone				
	TRS		3.6	344.6		
	FUS		11.5	401.2	DSC	[2008RIB/RIB]
	FUS		14.7	403	DSC	[1999DEF/DEO, 1999DEF]
	TRS		3.27	344		
	FUS		5.11	397.3	DSC	[1984WEI/LEF]
	SUB	(327–349)	94.5 ± 0.8	338	ME	[2008RIB/RIB]
	SUB	(327–349)	96.6 ± 0.8	298	ME	[2008RIB/RIB]
	SUB		83.7 ± 1.9	298	V+ F	[1999DEF/DEO, 1999DEF]
$C_3H_6N_2O_2$	[591-07-1]	acetylurea				
	SUB	(360–407)	102.4 ± 0.7	383	C	[1988IMA/MUR]
	SUB		103.1 ± 0.7	298	C	[1988IMA/MUR]
	SUB		103.1 ± 0.7	298	C	[1985MUR/SAK]
$C_3H_6N_2O_2$	[108-13-4]	malonamide (propanediamide)				
	FUS (orthorhombic)		24.2	431.1		
	FUS (monoclinic)		30.3	439.5		
	FUS (quadratic)		28.8	444.0	DSC	[2014COR/GUI]
	TRS		1.40	410.2		
	FUS		23.2	445.9	DSC	[2009CHE/PET]
	TRS		1.89	418.9		
	FUS		29.85	444.2	DSC	[2006BAD/DEL]
	TRS		1.9	393		
	FUS (quadratic)		35.8	443	DSC	[1996DOM/HEA, 1989SAK/IMA, 2014COR/GUI]
	SUB		126.4 ± 0.5	298	C	[1989IMA/TAK]
$C_3H_6N_2O_4$	[601-76-3]	1,1-dinitropropane				
	V	(323–383)	57.9	338	A	[1987STE/MAL]
	V	(323–383)	62.5 ± 0.6	298	ZG	[1949HOL/DOR]
$C_3H_6N_2O_4$	[595-49-3]	2,2-dinitropropane				
	TRS		1.87	259.7		
	TRS		11.28	267.7		
	FUS		2.64	324.5		[1996DOM/HEA, 1978GOD/RAC, 1978GOD/RAC2]
	TRS		10.42	266.5		
	FUS		2.41	326.0	DSC	[1972ROG/ORT]
	TRS		12.22	268		[1958BIL/NOL]
	V	(363–553)	46.3	378	A	[1987STE/MAL]
$C_3H_6N_2O_5$	[918-52-5]	2,2-dinitro-1-propanol				
	TRS		15.06	281.7		
	FUS		2.85	366.7		[1969ROS/HOL]
$C_3H_6N_2O_6$	[6423-43-4]	1,2-propanediol dinitrate				
	V	(288–328)	63.8	303	A	[1987STE/MAL, 1970DYK]
$C_3H_6N_2O_6$	[3457-90-7]	1,3-propanediol dinitrate				
	V	(293–313)	74.3 ± 4.6	303	A, GS	[1987STE/MAL, 1957KEM/GOL]
$C_3H_6N_2O_6$	[2736-80-3]	2,2-dinitro-1,3-propanediol				
	TRS		21.34	341.2		[1969ROS/HOL]
[Note: Decomposes before melting.]						
$C_3H_6N_4$	[5144-11-6]	1,5-dimethyltetrazole				
	FUS		14.7	349		[1990KOZ/SIM3]
	SUB	(303–343)	86.2 ± 1.0		ME	[1990KOZ/SIM]
$C_3H_6N_4$	[4135-93-7]	2,5-dimethyltetrazole				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		13.5	256.4		[1990KOZ/SIM3]
$C_3H_6N_4O_2$	[5465-96-3]	4,5-dihydro-*N*-nitro-1*H*-imidazol-2-amine				
	FUS		34.24	495.1	DSC	[2011CAI/XIA]
$C_3H_6N_4O_4$	[5754-91-6]	1,3-dinitro-1,3-diazacyclopentane				
	FUS		25.08	410		[1996DOM/HEA, 1971HAL]
	SUB		105.4 ± 0.8	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
$C_3H_6N_6$	[108-78-1]	2,4,6-triamino-s-triazine (melamine)				
	SUB	(417–614)	121.3 ± 4.2	515	GS	[1960HIR/STE, 1970COX/PIL]
	SUB	(417–447)	123.3	432	A	[1987STE/MAL]
$C_3H_6N_6O_3$	[13980-04-6]	1,3,5-trinitroso-1,3,5-triazacyclohexane				
	TRS		17.78	367		
	FUS		3.77	376	DSC	[1996DOM/HEA, 1971HAL]
	SUB	(348–383)	99.5		TGA	[2011FEL/RAM]
	SUB	(343–447)	134.3 ± 0.7	298	ME	[1978CUN/PAL]
	SUB	(383–411)	112.1		ME	[1974PEP/MAT]
	SUB		112.1			[1953EDW, 1960JON]
$C_3H_6N_6O_5$	[5755-27-1]	1,3-dinitro-5-nitroso-1,3,5-triazacyclohexane				
	FUS		25.97	446	DTA	[1987OYU/BRI]
$C_3H_6N_6O_6$	[121-82-4]	hexahydro-1,3,5-trinitro-1,3,5-triazine				
	FUS (β)		12.63	459.9	DSC	[2013HUN/SUT]
	FUS (α)		33.5	476.7	DSC	[2010SHA/REN]
	FUS (α)		32.98	478.5		[2003MCK/KRA]
	FUS (α)		33.60	477.4	DSC	[1997ZEM]
	FUS (α)		33.43	478.3	DSC	[1995YIN/LIU]
	FUS (α)		37.66	478.2		[1996DOM/HEA, 1992MAK]
	FUS (α)		30.7	477.4	DSC	[1977KIS, 1997ZEM]
	FUS (α)		35.65	478.5	DSC	[1971HAL, 1997ZEM]
	SUB	(443–473)	147	458	DTA	[2014CUD/POD]
	SUB		128.0 ± 1.3	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
	SUB		134.3	298		[1978CUN/PAL]
	SUB	(325–360)	112.5 ± 0.8		ME	[1974PEP/MAT]
	SUB	(329–371)	130.1	350		[1969ROS/DIC]
	V	(503–523)	84.4	513	A	[1987STE/MAL]
C_3H_6O	[107-18-6]	2-propen-1-ol				
	V	(311–355)	46.1	298	EB	[2004LUB/MAL]
	V	(323–373)	47.3	298	CGC	[1995CHI/HOS]
C_3H_6O	[503-30-0]	oxetane				
	V		29.8	298	C	[1981HOS/SCO]
C_3H_6O	[67-64-1]	acetone				
	TRS	(78–320)	0.04	126.2		
	FUS	(78–320)	5.77	179.0	AC	[2006WAN/NAN]
	FUS		5.72	176.6		[1996DOM/HEA, 1929KEL3]
	FUS		5.69	177.6		[1928PAR/KEL]
	FUS		4.77	178.5		[1925MAA/WAL]
	V	(310–330)	31.7 ± 0.4		I	[2010GER/PEL]
	V	(298–318)	32.1	308		[2008SON/RAM]
	V	(329–488)	29.9	344	A	[1987STE/MAL]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(178–243)	32.9	228	A	[1987STE/MAL]
	V	(203–269)	33.8	254	A	[1987STE/MAL]
	V	(323–379)	30.6	338	A	[1987STE/MAL]
	V	(374–464)	29.5	389	A	[1987STE/MAL]
	V	(457–508)	29.7	472	A	[1987STE/MAL]
	V		26.1	373	C	[1986DMI/KAC]
	V		21.7	423	C	[1986DMI/KAC]
	V		15.3	473	C	[1986DMI/KAC]
	V		9.2	498	C	[1986DMI/KAC]
	V	(285–329)	31.9	300	EB	[1986BAL/GNA]
	V	(305–333)	31.8	319		[1984CAS/FRA3]
	V		30.5 ± 0.6	298	C	[1981GAT/STR]
	V	(259–351)	32.8	274	A	[1987STE/MAL, 1974AMB/SPR2, 1975AMB/ELL]
	V		31.3	298		[1975AMB/ELL]
	V	(261–328)	32.7	276	A, EB	[1987STE/MAL, 1972BOU/AIM]
	V	(278–293)	32.6	285		[1963SOK/ZHI]
	V		30.8 ± 0.1	300	C	[1957PEN/KOB]
	V		29.8 ± 0.1	318	C	[1957PEN/KOB]
	V		29.1 ± 0.1	329	C	[1957PEN/KOB]
	V		28.5 ± 0.1	338	C	[1957PEN/KOB]
	V		28.1 ± 0.1	345	C	[1957PEN/KOB]
	V	(310–329)	31.1	319		[1957BRO/SMI]
	V	(304–329)	31.3	316		[1952BAC/SIM]
	V	(204–339)	35	253	MG	[1926FEL/DUR]
	V	(204–339)	32.1	293	MG	[1926FEL/DUR]
	V	(204–339)	30.7	313	MG	[1926FEL/DUR]
C_3H_6O	[107-18-6]	allyl alcohol				
	V	(310–340)	44.6	325		[2002LUB/BAN]
	V	(301–375)	45.1	315		[1983MAR/SHV]
	V	(253–370)	46.7	268	A	[1987STE/MAL]
	V		NA			[1936EWE]
	V	(283–313)	44.8	298		[1935BAU/BUR]
C_3H_6O	[107-25-5]	methyl vinyl ether				
	V	(278–412)	23.4	293	A	[1987STE/MAL]
C_3H_6O	[503-30-0]	trimethylene oxide				
	FUS	(85–270)	6.27	173.2	C	[1985HAN]
C_3H_6O	[123-38-6]	propanal				
	FUS		8.59	171.3		[1996DOM/HEA, 1977KOR/VAS]
	V	(263–373)	31.5	278		[1977KIM/KIM]
	V	(286–321)	NA	301		[1974AMB/SPR]
	V		28.3	321		[1972COU/LEE]
	V		29.4	303		[1972COU/LEE]
	V		30.3	286		[1972COU/LEE]
	V		29.6	298		[1972COU/LEE]
	V	(290–322)	30.3	305	A	[1987STE/MAL, 1970DYK]
	V		29.7 ± 0.4	298	EB	[1967BUC/COX, 2003VER/KRA2]
	V		30.0	298	EB	[1962TJE2, 2003VER/KRA2]
	V	(250–330)	31.9	265	EB	[1987STE/MAL, 1951SMI/BON]
C_3H_6O	[75-56-9]	propylene oxide				
	FUS	(11–330)	6.53	161.3	AC	[1996DOM/HEA, 1964OET]
	V	(225–308)	31.6	240	A	[1987STE/MAL, 1970DYK]
	V	(292–345)	28.5	307		[1966BOT/ADL]
	V		27.9	298	C	[1962SIN/HIL]
	V	(249–308)	30.1	264		[1959MCD/SHR]
	V	(285–322)	28.2	303		[1937MOO/KAN]
	V	(243–306)	32.9	273		[1935KIR/POP]
$C_3H_6O_2$	[646-06-0]	1,3-dioxolane				
	TRS		2.68	142.4		
	FUS		6.57	175.9		[1996DOM/HEA, 1969CLE/MEL2]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(305–347)	34.6	326		[1989WU/SAN]
	V	(280–323)	35.8	295	A	[1987STE/MAL]
	V	(321–357)	33.7	339		[1982CAS/FRA]
	V	(306–346)	33.7	326		[1980FRA/CAS]
	V	(280–355)	34.1	296		[1968CHE/TUR, 1984BOU/FRI]
	V		35.6 ± 0.4			[1959FLE/MOR]
$C_3H_6O_2$	[109-94-4]	ethyl formate				
	V	(300–326)	31.4	313	EB	[1993FAR/WIC]
	V	(300–326)	32.1 ± 0.1	298	EB	[1993FAR/WIC, 2012SAM/NAZ]
	V	(327–498)	29.9	342	A	[1987STE/MAL]
	V		31.6 ± 0.1	304	C	[1976CIH/HYN]
	V		30.9 ± 0.1	313	C	[1976CIH/HYN]
	V		29.8 ± 0.1	328	C	[1976CIH/HYN]
	V		32.2	298	EB	[1974HIN/KLU]
	V	(213–336)	35.8	228	A	[1987STE/MAL, 1970DYK]
	V		30.1 ± 0.2	326	C	[1926MAT]
	V		31.5 ± 0.2	298	C	[1926MAT, 2012SAM/NAZ]
$C_3H_6O_2$	[79-20-9]	methyl acetate				
	FUS	(13–290)	7.49	174.9	AC	[1992OKA/OGU]
	V	(296–353)	32.6	312		[1997MON/BUR]
	V	(260–351)	34.1	275	A	[1987STE/MAL]
	V		31.7 ± 0.7	298	C	[1981GAT/STR]
	V		32.3 ± 0.1	298	C	[1980SVO/UCH]
	V		29.5 ± 0.1	343	C	[1980SVO/UCH]
	V	(308–338)	31.8	323	DTA	[1980MEY/AWE]
	V		32.6 ± 0.1	298	C	[1979SUN/SVE2]
	V		32.2 ± 0.1	304	C	[1977SVO/VES]
	V		31.6 ± 0.1	313	C	[1977SVO/VES]
	V		30.5 ± 0.1	328	C	[1977SVO/VES]
	V		30.3 ± 0.1	331	C	[1977SVO/VES]
	V		32.5	295		[1976CON/COU]
	V		30.2	330		[1976CON/COU]
	V	(273–318)	34.5	296	BG	[1971HAL/BAL]
	V	(274–329)	33.4	289	A	[1987STE/MAL, 1965MER/POL, 1970DYK]
$C_3H_6O_2$	[79-09-4]	propionic acid				
	FUS		11.25	252.5	DSC	[2010HEN/CAM]
	FUS	(15–353)	10.66	252.7	AC	[1996DOM/HEA, 1982MAR/AND]
	FUS		U7.24	253.4		[1909MAS/FAU]
	SUB	(225–238)	74.1 ± 1	233	TE	[1978CAL/CAL]
	SUB		73.2 ± 1	233	ME	[1978CAL/CAL]
	V	(303–378)	54.4	298	CGC	[2000VER]
	V	(353–393)	54.9	298	CGC	[1995CHI/HOS]
	V	(343–419)	47.0	358	A	[1987STE/MAL]
	V	(414–511)	60.6	429	A	[1987STE/MAL]
	V	(345–401)	46.4	360	A	[1987STE/MAL]
	V		56.0	303		[1983TAM/DRA]
	V (monomer)		31.1 ± 0.1	298	C	[1970KON/WAD]
	V		55 ± 2	298	C	[1970KON/WAD]
	V	(328–437)	48.3	343		[1981AMB/ELL]
$(C_3H_6O_2)_2$	[32574-16-6]	propionic acid dimer				
	SUB	(225–238)	81.3 ± 1	233	TE	[1978CAL/CAL]
	SUB		79.4 ± 1.0	233	ME	[1978CAL/CAL]
$C_3H_6O_2$	[116-09-6]	hydroxyacetone				
	V	(296–356)	42 ± 3	326		[2010PET/REY]
$C_3H_6O_2S$	[107-96-0]	β-thiolactic acid				
	FUS		16.97	291.9		[1996DOM/HEA, 1935HUF/ELL]
$C_3H_6O_3$	[625-45-6]	2-methoxyacetic acid				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(325–477)	54.5	340	A	[1987STE/MAL, 1947STU]
$C_3H_6O_3$	[96-35-5]	methyl glycolate				
	FUS		11.4	272.8	DSC	[2000JAR/MAR]
	V	(326–381)	52.5 ± 6.3	298	EB	[1996STE/CHI2]
	V	(326–381)	50.2 ± 5.2	320	EB	[1996STE/CHI2]
	V	(326–381)	47.0 ± 4.2	360	EB	[1996STE/CHI2]
	V	(282–425)	47.4	297	A	[1987STE/MAL, 1947KET/VAN]
$C_3H_6O_3$	[616-38-6]	dimethylcarbonate				
	TRS		Not reported	220.1		
	FUS		11.58	278.2	DSC	[2004DIN]
	V	(274–304)	38.0 ± 0.2	298	GS	[2008KOZ/EME]
	V	(326–411)	36.4	341		[2002ROD/CAN]
	V	(311–397)	37.7 ± 0.2	298	EB	[1997STE/CHI4, 1997STE/CHI2]
	V	(311–397)	36.4 ± 0.2	320	EB	[1997STE/CHI4, 1997STE/CHI2]
	V	(311–397)	33.8 ± 0.3	360	EB	[1997STE/CHI4, 1997STE/CHI2]
	V	(311–397)	30.9 ± 0.5	400	EB	[1997STE/CHI4, 1997STE/CHI2]
$C_3H_6O_3$	[4212-43-5]	peroxypropionic acid				
	V	(273–393)	43.2	288	A	[1987STE/MAL, 1951EGE/EMT, 1970DYK]
$C_3H_6O_3$	[38787-96-1]	propylene ozonide				
	V	(261–296)	36.9	281	A	[1987STE/MAL, 1956GAR/SCH]
$C_3H_6O_3$	[110-88-3]	1,3,5-trioxane				
	FUS	(7–346)	15.1	333.4	AC	[1996DOM/HEA, 1991ACR, 1988VAN/VAN]
	SUB	(212–231)	57.9	223	TE, ME	[1983DEW/VAN]
	SUB		55.6	298		[1983DEW/VAN]
	SUB		56.5	298	C	[1975BOG/BER]
	SUB		56.2 ± 0.2	298	C	[1969MAN/MOR, 1977PED/RYL]
	V	(329–386)	40.0	344	A	[1987STE/MAL, 1965SER/BYK]
$C_3H_6O_3$	[50-21-5]	(*dl*)-lactic acid				
	FUS		11.34	289.9		[1996DOM/HEA, 1944YOS]
$C_3H_6O_3$	[79-33-4]	L-(+)-lactic acid (*S*-lactic acid)				
	V		69.1 ± 1.0	298	GS	[2010EME/VER3]
C_3H_6S	[1072-43-1]	2-methylthiirane				
	V	(272–423)	34.6	287	A	[1987STE/MAL, 1970DYK, 1999DYK/SVO]
C_3H_6S	[287-27-4]	thiacyclobutane (thietane)				
	TRS		0.67	176.7		
	FUS	(12–321)	8.24	199.9		[1996DOM/HEA, 1953SCO/FIN]
	V	(275–393)	36.5	290		[1999DYK/SVO]
	V		35.8	298		[1971WIL/ZWO]
	V	(321–404)	34.6	336	A, EB	[1987STE/MAL, 1953SCO/FIN, 1966OSB/DOU]
$C_3H_6S_3$	[291-21-4]	1,3,5-trithiane				
	FUS		32.22	488.4	DSC	[2002VAN/VAN2]
	SUB		93.2 ± 0.2	298	ME	[2001ROU/JIM]
	SUB	(320–339)	91.5	331	TE, ME	[1983DEW/VAN]
	SUB		93.9	298		[1983DEW/VAN]
C_3H_7Br	[106-94-5]	1-bromopropane				
	V	(301–344)	31.8	316	A, EB	[1987STE/MAL, 1977SVO/MAJ]
	V		31.1 ± 0.1	322	C	[1977SVO/MAJ]
	V		30.5 ± 0.1	332	C	[1977SVO/MAJ]
	V		30.1 ± 0.1	339	C	[1977SVO/MAJ]
	V		29.3 ± 0.1	352	C	[1977SVO/MAJ]
	V		31.9 ± 0.1	298	C	[1966WAD]
	V	(250–368)	34.1	265	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(220–344)	35.5	235		[1947STU]
	V	(273–303)	32.6	288		[1906REX, 1984BOU/FRI]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_3H_7Br	[75-26-3]	2-bromopropane				
	FUS		6.55	184.1		[1996DOM/HEA, 1950KUS/CRO]
	V	(323–363)	30.6	298	CGC	[1995CHI/HOS]
	V	(236–328)	32.1	251	A	[1987STE/MAL]
	V	(299–332)	30.1	314	EB	[1987STE/MAL, 1977SVO/MAJ]
	V		29.8 ± 0.1	305	C	[1977SVO/MAJ]
	V		29.2 ± 0.1	318	C	[1977SVO/MAJ]
	V		28.5 ± 0.1	330	C	[1977SVO/MAJ]
	V		28.0 ± 0.1	338	C	[1977SVO/MAJ]
	V	(297–333)	30.4	315		[1974VAN/HOU]
	V		30.2 ± 0.1	298	C	[1966WAD]
	V	(211–333)	33.4	226		[1947STU]
	V	(273–303)	30.9	288		[1906REX, 1984BOU/FRI]
C_3H_7Cl	[540-54-5]	1-chloropropane				
	V	(250–320)	29.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V		28.5 ± 0.2	298	C	[1977MAN/SEL]
	V	(248–320)	31.0	263	A	[1987STE/MAL, 1969KEM/KRE, 1970DYK]
	V	(205–319)	33.1	219		[1947STU]
C_3H_7Cl	[75-29-6]	2-chloropropane				
	FUS		7.39	155.8	DTA	[1994TAN/SAB3]
	FUS		7.39	156		[1991ACR, 1983WEA]
	V	(239–310)	30.2	254	A	[1987STE/MAL]
	V	(271–312)	27.6	298		[1960DYK/PAU]
	V	(194–309)	30.6	209		[1947STU]
	V	(273–303)	27.3	288		[1906REX, 1984BOU/FRI]
C_3H_7ClO	[127-00-4]	1-chloro-2-propanol				
	V	(308–399)	45.0 ± 2.2	340	EB	[2002STE/CHI]
	V	(308–399)	42.2 ± 1.9	380	EB	[2002STE/CHI]
C_3H_7ClO	[78-89-7]	2-chloro-1-propanol				
	V	(316–399)	45.0	331	A	[1987STE/MAL]
$C_3H_7ClO_2$	[96-24-2]	3-chloro-1,2-propanediol				
	V	(343–409)	66.6	358		[1996GIL/WIL]
$C_3H_7ClO_2S$	[10147-36-1]	1-propanesulfonyl chloride				
	V	(273–362)	52.3	288		[1999DYK/SVO]
	V	(362–464)	49.9	377		[1999DYK/SVO]
	V	(243–273)	60.1	258	A	[1987STE/MAL, 1999DYK/SVO, 1963QUI/NOW]
C_3H_7ClS	[542-81-4]	methyl(2-chloroethyl) sulfide				
	V	(293–333)	42.4	308	A, GS	[1987STE/MAL, 1948RED/CHA, 1970DYK]
C_3H_7F	[460-13-9]	1-fluoropropane				
	V	(196–289)	24.0	274	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
C_3H_7F	[420-26-8]	2-fluoropropane				
	V	(190–264)	23.7	249	A	[1987STE/MAL]
C_3H_7I	[107-08-4]	1-iodopropane				
	V	(171–271)	37.8	256	A	[1987STE/MAL]
	V		36.3 ± 0.1	298	C	[1968WAD]
	V	(271–402)	36.8	286	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK]
	V	(237–375)	37.0	252		[1947STU]
C_3H_7I	[75-30-9]	2-iodopropane				
	V	(313–353)	34.0	298	CGC	[1995CHI/HOS]
	V	(173–262)	36.7	247	A	[1987STE/MAL]
	V		34.1 ± 0.1	298	C	[1968WAD]
	V	(230–363)	36.3	244		[1947STU]
C_3H_7N	[765-30-0]	cyclopropylamine				
	FUS	(13–319)	13.18	237.8	AC	[1991ACR, 1981FIN/MES]
	V		31.3 ± 0.4	298	EB	[1971GOO/MOO]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_3D_7N	[153557-96-1]	perdeuterocyclopropylamine				
	V	(283–336)	32.0	298		[1993WOL/KIM]
C_3H_7N	[107-11-9]	allylamine				
	V	(273–303)	33.0	288	A	[1987STE/MAL]
	V	(273–324)	32.6	288	A	[1987STE/MAL]
C_3H_7N	[503-29-7]	azetidine				
	V	(273–303)	34.6	288	A	[1987STE/MAL, 1968CAB/CON]
C_3H_7NO	[127-06-0]	acetone oxime				
	SUB	(313–333)	59.6	323	I	[1987STE/MAL, 1975MES/BAE]
	V	(338–352)	51.4	345	A	[1987STE/MAL]
C_3H_7NO	[79-05-0]	propionamide				
	FUS		12.9	352.6	DSC	[2008ABA/BAD, 2000BRU/DEL]
	SUB	(283–343)	75 ± 4.0	298	TE	[2000BRU/DEL]
	SUB		79.2 ± 0.3			[1975BAR/PIL, 1977PED/RYL]
	SUB		73.3			[1960THO]
	SUB	(318–346)	79.1 ± 0.4		GS	[1959DAV/JON2]
	V		68.6 ± 2.3	298	CGC	[2013GUT/RAT]
	V	(375–476)	63.9	390	EB	[2004HOR/FIS]
	V	(338–486)	60.3	353		[1947STU]
C_3H_7NO	[68-12-2]	*N*,*N*-dimethylformamide				
	FUS		8.95	212.9	AC	[2007SMI/TSV]
	FUS		8.95	212.9		[1996DOM/HEA, 1978KAR/RAB]
	V	(463–513)	46.7 ± 0.5	298	CGC	[2009PAN/ANT]
	V	(346–425)	43.1	361		[2005MUN/MON]
	V	(377–426)	41.8	392		[1997BLA/BEL]
	V	(338–425)	43.6	353		[1995MAR/GAB]
	V	(301–426)	49.2	316	A	[1987STE/MAL]
	V		46.9	298	A	[1985BAR/CAS, 1985MAJ/SVO]
	V	(318–423)	42.5	370		[1979BLU/BAE]
	V	(331–425)	56.7	346		[1974MYA/SCH, 1984BOU/FRI]
	V	(303–363)	46.7	318		[1968GOP/RIZ]
C_3H_7NO	[627-45-2]	*N*-ethylformamide				
	V		58.4	298	A	[1985BAR/CAS, 1985MAJ/SVO]
C_3H_7NO	[79-16-3]	*N*-methylacetamide				
	FUS		10.11	303.7		[1999AHL/LOH]
	FUS		9.73	303.8	C	[1969KRE/WOO]
	FUS		8.37	303.8	C	[1964BON/JOR]
	SUB	(266–278)	70.8 ± 2.0	298	ME	[1996ROU/JIM2]
	SUB		69.9 ± 0.3	298	C	[1984STA/WAD]
	SUB	(288–303)	54.0			[1952AIH, 1960JON]
[Note: The value of 54.0 kJ/mole disagrees with the value of 70.8 kJ/mole given in [1996ROU/JIM2]. Given the disagreement and closeness of the value to other reported V values we believe that the value might be an enthalpy of vaporization, rather than enthalpy of sublimation.]						
	V	(363–414)	55.5	378		[1995SCH/PUS]
	V	(353–428)	62.0	368		[1993AUC/MON]
	V	(333–443)	59.6	348	A	[1987STE/MAL, 1975MAN/KOR, 2008MAC/SHI]
	V	(353–479)	53.5	368	A	[1987STE/MAL]
	V	(303–363)	69.0			[1968GOP/RIZ]
C_3H_7NO	[627-39-4]	propionaldehyde oxime				
	V	(313–339)	51.2	326	A	[1987STE/MAL]
$C_3H_7NO_2$	[51-79-6]	ethyl carbamate				
	FUS	(90–336)	16.79	321.4	AC	[1983DEW/DEK]
	FUS		20.9	321.7		[1976BER/BOU]
	FUS		15.23	321.9		[1991ACR, 1889EYK]
	SUB		77.7 ± 1.4	298	C	[2013SAN/RIB]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(256–273)	77.7	265	TE, ME	[1983DEW/VAN]
	SUB		76.3	298		[1983DEW/VAN]
	SUB		71.9	322		[1976BAR/BOU]
	SUB	(292–307)	89.1 ± 0.8	299	GS	[1959DAV/JON]
	V	(323–373)	U25.8	338		[2004AHM/GIE]
	V	(338–457)	56.6	353	A	[1987STE/MAL, 1947STU]
$C_3H_7NO_2$	[541-42-4]	isopropyl nitrite				
	V	(253–268)	26.0	260	A	[1987STE/MAL, 1937THO/DAI]
$C_3H_7NO_2$	[108-03-2]	1-nitropropane				
	V	(313–353)	43.9	298	CGC	[1995CHI/HOS]
	V	(293–405)	42.6	308	A, EB	[1987STE/MAL, 1956TOO, 1970DYK]
	V	(331–404)	40.6	346		[1949DRE/SHR, 1949DRE/MAR]
	V	(283–403)	43.4 ± 0.4	298	ZG	[1949HOL/DOR]
$C_3H_7NO_2$	[79-46-9]	2-nitropropane				
	V	(313–353)	43.9	298	CGC	[1995CHI/HOS]
	V	(284–394)	40.9	299	A, EB	[1987STE/MAL, 1947STU, 1956TOO, 1970DYK]
	V	(283–383)	41.3 ± 0.4	298	ZG	[1949HOL/DOR]
$C_3H_7NO_2$	[543-67-9]	propyl nitrite				
	V	(253–268)	28.3	260	A	[1987STE/MAL, 1937THO/DAI]
$C_3H_7NO_2$	[56-41-7]	L-(*d*)-alanine				
	SUB		132.8 ± 1.0	414	TE, ME	[1979DEK/VOO]
	SUB	(413–450)	132.4 ± 1.3	433	C	[1977NGA/SAB]
	SUB		144.8 ± 4.2	298	C	[1977NGA/SAB]
$C_3H_7NO_2$	[338-69-2]	D-(*l*)-alanine				
	SUB	(407–426)	132.8	417	A	[1987STE/MAL]
	SUB	(342–442)	U105 ± 8	392	LE	[1977GAF/PIE]
	SUB	(453–469)	138.3 ± 8	461	ME	[1965SVE/CLY, 1970COX/PIL, 1964CLY/SVE, 1989CHI/GRO]
$C_3H_7NO_2$	[302-72-7]	DL-(α)-alanine				
	SUB	(397–419)	135.9 ± 2.7	408	ME	[2010RIB/RIB2]
	SUB	(397–419)	138.0 ± 2.7	298	ME	[2010RIB/RIB2]
$C_3H_7NO_2$	[107-95-9]	β-alanine				
	SUB	(388–402)	136.2 ± 1.7	395	ME	[2010RIB/RIB2]
	SUB	(388–402)	137.9 ± 1.7	298	ME	[2010RIB/RIB2]
	SUB	(384–402)	133.1 ± 0.7	393	C	[1983SKO/SAB]
	SUB		134 ± 2	298	C	[1983SKO/SAB]
	SUB	(318–418)	U105 ± 4	368	LE	[1977GAF/PIE]
$C_3H_7NO_2$	[107-97-1]	sarcosine (*N*-methylglycine)				
	FUS		20.6	481.6	DSC	[2011ROU/NOT2]
	SUB	(381–403)	128.0 ± 0.7	392	ME	[2013AMA/SAN]
	SUB	(381–403)	129.2 ± 0.7	298	ME	[2013AMA/SAN]
	SUB	(380–413)	146 ± 1	298	C	[1978SAB/LAF]
$C_3H_7NO_2S$	[52-90-4]	L-cysteine				
	SUB	(410–436)	140.3 ± 1.4	423	ME	[2010ROU/FOC]
	SUB	(410–436)	146.4 ± 1.4	298	ME	[2010ROU/FOC]
	SUB	(337–437)	U96.2 ± 4.2	387	LE	[1977GAF/PIE]
$C_3H_7NO_2S$	[3374-22-9]	(*dl*)-cysteine				
	TRS	(6–309)	2.3	300	AC	[2010PAU/KOV]
	TRS		1.36	283	DTA	[1979MAN/LAU]
$C_3H_7NO_3$	[1712-64-7]	isopropyl nitrate				
	FUS	(14–300)	10.1	190.9	AC	[1988LUS/RUB]
	V		35.3 ± 0.6		DSC	[1999JON/FEN]
	V	(273–343)	39.7	288	A	[1987STE/MAL, 1957GRA/PRA, 1970DYK]
$C_3H_7NO_3$	[627-13-4]	propyl nitrate				

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–343)	41.7	288	A	[1987STE/MAL, 1957GRA/PRA, 1970DYK]
$C_3H_7NO_3$	[302-84-1]	(*dl*)-serine				
	SUB	(354–454)	U83.7 ± 4	404	LE	[1977GAF/PIE]
$C_3H_7N_3$	[22293-25-0]	1-azidopropane				
	V	(253–298)	31.1	268	A	[1987STE/MAL, 1964GEI/KON, 1984BOU/FRI]
$C_3H_7N_3$	[691-57-6]	2-azidopropane				
	V	(253–298)	33.2	268	A	[1987STE/MAL, 1964GEI/KON, 1984BOU/FRI]
C_3H_7P	[81637-99-2]	2-propenylphosphine				
	V	(210–273)	32.7	241		[1988SHA/DIE]
C_3H_8	[74-98-6]	propane				
	FUS		3.51	85.5	AC	[2009PER/OCH]
	FUS		3.50	85.5		[1981PAV/BES]
	FUS		3.52	85.5		[1991ACR, 1983WEA, 1938KEM/EGA]
	SUB		28.5	86	B	[1963BON]
	V	(278–332)	18.8	293	A	[1987STE/MAL]
	V	(165–248)	19.5	233	A	[1987STE/MAL]
	V	(104–165)	22.1	150	A	[1987STE/MAL]
	V	(231–281)	19.0	266	A	[1987STE/MAL]
	V	(329–369)	19.2	344	A	[1987STE/MAL]
	V	(312–367)	18.9	327		[1980MAJ/SVA]
	V		18.77	256		[1971WIL/ZWO]
	V	(166–231)	20.0	216		[1938REI]
	V		18.8	231	C	[1938KEM/EGA]
	V		18.7	231		[1926DAN/JEN, 1938KEM/EGA]
$C_3H_8N_2$	[51283-80-8]	dimethyl ammonium cyanide				
	V	(251–295)	49.0	280	A	[1987STE/MAL, 1973DIE/MAR]
$C_3H_8N_2O$	[625-52-5]	*N*-ethylurea				
	FUS		9.6	356.7	DSC	[2005HAS/TAJ]
	TRS		1.0	294.6		
	FUS		14.65	368.9	DSC	[1995FER/DEL]
	FUS		13.9		DSC	[1995STR/ARG]
	FUS		14.39	365.1		[1990KAB/MIR2]
	FUS		13.94	367.8	DSC	[1987DEL/FER]
	SUB	(323–364)	98.1 ± 1.1	344	ME	[2003ZAI/KAB]
	SUB	(323–364)	97.8 ± 1.1	350	ME	[2003ZAI/KAB]
	SUB		96.4 ± 1.1	350	C	[2003ZAI/KAB]
	SUB		99.3 ± 0.8	298		[2003ZAI/KAB]
	SUB	(333–365)	91.8 ± 1.2	354	TE	[1990PIA/FER, 1987FER/DEL2]
	SUB		100.3 ± 0.7			[1986KRA/KOZ2]
$C_3H_8N_2O$	[598-94-7]	1,1-dimethylurea				
	FUS		29.61	454	DSC	[1991ACR, 1987DEL/FER]
	FUS		22.97	455.2	DSC	[1972ZOR/HUR]
	SUB	(346–398)	93.5 ± 0.3	298	GS	[2006EME/KAB]
	SUB	(323–372)	94.7 ± 1.4	348	ME	[2003ZAI/KAB]
	SUB	(323–372)	94.7 ± 1.4	350	ME	[2003ZAI/KAB]
	SUB		93.3 ± 0.5	350	C	[2003ZAI/KAB]
	SUB		94.9 ± 0.4	298		[2003ZAI/KAB]
	SUB	(326–369)	92.5 ± 1.3	357	TE	[1990PIA/FER, 1987FER/DEL2]
	SUB		99.1 ± 0.4			[1986KRA/KOZ2]
$C_3H_8N_2O$	[96-31-1]	1,3-dimethylurea				
	FUS	(303–403)	12.76	375.2	DSC	[2016ZHU/CHE2]
	TRS		0.32	161.3		
	TRS	(5–320)	0.08	301.2	AC	[1995KAB/KOZ2]
	FUS		13.0	379.5		[1995KAB/KOZ2, 1990KAB/MIR2]
	FUS		13.62	379.5	DSC	[1987DEL/FER]
	FUS		12.43	379.9	DSC	[1972ZOR/HUR]
	FUS		13.0		CR	[1972ZOR/HUR]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(313–357)	89.3 ± 0.4	298	GS	[2006EME/KAB]
	SUB	(317–377)	87.6 ± 1.0	347	ME	[2003ZAI/KAB]
	SUB	(317–377)	87.5 ± 1.0	350	ME	[2003ZAI/KAB]
	SUB		86.6 ± 0.5	350	C	[2003ZAI/KAB]
	SUB		88.3 ± 0.4	298		[2003ZAI/KAB]
	SUB	(316–373)	87.2 ± 0.6	353	TE	[1990PIA/FER, 1987FER/DEL2]
$C_3H_8N_2O_2$	[4114-31-2]	ethyl carbazate				
	FUS	(78–371)	20.0	318.9	AC	[2001DI/SUN2]
$C_3H_8N_2S$	[534-13-4]	1,3-dimethylthiourea				
	FUS		13.71	337	DSC	[2000DEL/JOZ]
	FUS		12.7	336.9		[1994FER/MAR]
	FUS		11.4	339	DSC	[1993DEM/BUC]
	SUB		111.8 ± 3	298	B	[2000DEL/JOZ]
	SUB		107.3 ± 4.0	298	B	[1994TER/PIA]
	SUB		108 ± 3.0	361	B	[1994FER/MAR]
	V	(342–375)	93 ± 4.0	359	ME, TE	[1994TER/PIA]
$C_3H_8N_2S$	[625-53-6]	1-ethylthiourea				
	FUS		21.34	380.8	DSC	[2000DEL/JOZ]
	SUB	(360–380)	116.1 ± 2.0	370	ME, TE	[2007FER/BAD]
	SUB	(360–380)	118.8 ± 2.1	298	ME, TE	[2007FER/BAD]
	SUB		118.8 ± 5	298	ME	[2000DEL/JOZ]
$C_3H_8N_4O_2$	[39197-62-1]	1-ethyl-2-nitroguanidine				
	V		70.5 ± 3.3			[2009AST/DYU]
$C_3H_8N_4O_4$	[13232-00-3]	2,4-dinitro-2,4-diazapentane				
	FUS		16.81	327.1	DSC	[2010FAR/RAJ]
	FUS		16.79	327.6	DSC	[2003SPI/WAN]
	FUS		16.36	330.2	DSC	[1997ZEM]
	SUB		102.5 ± 0.4	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
C_3H_8O	[540-67-0]	methyl ethyl ether				
	V	(281–433)	30.1	296	A	[1987STE/MAL]
	V	(216–299)	37.0	231	A	[1987STE/MAL, 1969KUD/REE]
	V	(281–438)	37.1	296	A	[1987STE/MAL]
	V	(278–281)	NA			[1967SHA]
	V	(182–280)	26.3	265		[1947STU]
C_3H_8O	[71-23-8]	1-propanol				
	FUS	(10–350)	5.4	148.7		[2004VAN/VAN]
	FUS		5.37	148.8		[1968COU/LEE]
	V	(278–323)	47.4	298		[2012GIM/MAR]
	V	(335–370)	44.6	350		[2011SAP/UUS]
	V	(298–363)	45.7	298		[2004NAS/ZIM]
	V	(310–356)	47.8	298	EB	[2004LUB/MAL]
	V		41.2	371		[2000WOR/VIN]
	V		35.2	423		[2000WOR/VIN]
	V		29.4	453		[2000WOR/VIN]
	V		21.0	498		[2000WOR/VIN]
	V		11.4	528		[2000WOR/VIN]
	V	(323–373)	49.2	298	CGC	[1995CHI/HOS]
	V	(303–370)	47.0	318		[1995AUC/GON]
	V	(360–377)	42.9	375		[1990ORT/SUS]
	V	(200–228)	48.0	214	A	[1987STE/MAL]
	V	(356–376)	43.5	366	A	[1987STE/MAL]
	V	(369–407)	42.3	384	A	[1987STE/MAL]
	V	(401–482)	40.1	416	A	[1987STE/MAL]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(478–507)	36.5	492	A	[1987STE/MAL]
	V	(243–303)	46.3	298		[1983SCH/STR]
	V	(275–373)	49.3	290		[1973WIL/ZWO]
	V		46.4 ± 0.1	313	C	[1973SVO/VES]
	V		45.7 ± 0.1	323	C	[1973SVO/VES]
	V		44.9 ± 0.1	333	C	[1973SVO/VES]
	V		44.0 ± 0.1	343	C	[1973SVO/VES]
	V		43.2 ± 0.1	353	C	[1973SVO/VES]
	V		42.4 ± 0.1	363	C	[1973SVO/VES]
	V		47.49 ± 0.02	298	C	[1971POL/BEN]
	V		46.8 ± 0.1	308	C	[1971POL/BEN]
	V		46.2 ± 0.1	318	C	[1971POL/BEN]
	V		45.0 ± 0.1	328	C	[1971POL/BEN]
	V	(333–377)	44.7	348	EB	[1970AMB/SPR, 1987STE/MAL]
	V	(292–370)	46.9	307	DTA	[1969KEM/KRE]
	V	(288–348)	46.7	303		[1967VAN/SOC]
	V		47.3 ± 0.1	298	C	[1966WAD]
	V	(338–378)	44.3	353	EB	[1963BID/COL]
	V		46.6	298	C	[1963MCC/LAI]
	V	(405–537)	40.7	420		[1963AMB/TOW]
	V	(343–385)	44.1	358		[1961MAT/MCK]
	V		43.9 ± 0.1	343	C	[1961MAT/MCK]
	V		42.3 ± 0.1	360	C	[1961MAT/MCK]
	V		41.2 ± 0.1	370	C	[1961MAT/MCK]
	V		40.3 ± 0.1	378	C	[1961MAT/MCK]
	V		39.7 ± 0.1	384	C	[1961MAT/MCK]
	V	(321–367)	45.5			[1959ARO/KAS]
	V		43.2	354		[1957WIL/HAR]
C_3H_8O	[67-63-0]	2-propanol				
	FUS		5.41	185.2		[1996DOM/HEA, 1963AND/COU]
	FUS		5.37	184.7		[1929KEL3]
	FUS		5.30	184.6		[1925PAR/KEL, 1928PAR/KEL]
	V	(298–353)	44.0	298		[2004NAS/ZIM]
	V	(322–355)	43.2	337		[2002SEG/GAL]
	V		39.8	355		[2000WOR/VIN2]
	V		29.7	423		[2000WOR/VIN2]
	V		23.7	453		[2000WOR/VIN2]
	V		16.5	483		[2000WOR/VIN2]
	V		10.5	503		[2000WOR/VIN2]
	V		40.4			[1999FAT]
	V	(300–355)	44.8	315		[1995AUC/GON]
	V	(195–228)	50.3	213	A	[1987STE/MAL]
	V	(347–368)	42.0	355	A	[1987STE/MAL]
	V	(350–383)	41.3	365	A	[1987STE/MAL]
	V	(379–461)	39.2	394	A	[1987STE/MAL]
	V	(453–508)	35.3	468	A	[1987STE/MAL]
	V	(273–374)	45.7	288		[1973WIL/ZWO]
	V	(325–362)	43.1	340	A, EB	[1987STE/MAL, 1970AMB/SPR]
	V		45.34 ± 0.02	298	C	[1971POL/BEN]
	V		44.7 ± 0.1	308	C	[1971POL/BEN]
	V		43.9 ± 0.1	318	C	[1971POL/BEN]
	V		42.5 ± 0.1	328	C	[1971POL/BEN]
	V	(288–348)	45.5	303		[1967VAN/SOC]
	V		45.2 ± 0.1	298	C	[1966WAD]
	V		42.7 ± 0.1	330	C	[1964BER/LAR]
	V		41.0 ± 0.1	346	C	[1964BER/LAR]
	V		39.8 ± 0.1	355	C	[1964BER/LAR]
	V		38.9 ± 0.1	363	C	[1964BER/LAR]
	V	(329–363)	42.8	344	EB	[1963BID/COL]
	V		44.0	298	C	[1963MCC/LAI]
	V	(395–508)	39.1	410		[1963AMB/TOW]
	V		43.2	324	C	[1963HAL/COX]
	V		41.7	339	C	[1963HAL/COX]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		39.8	355	C	[1963HAL/COX]
	V	(354–420)	41.1	369		[1955FOZ/MOR]
	V	(273–363)	44.4	298		[1928PAR/BAR]
$C_3H_8OS_2$	[59-52-9]	2,3-dimercaptopropanol				
	V	(353–413)	61.2	382		[1999DYK/SVO, 1987STE/MAL]
$C_3H_8O_2$	[109-86-4]	2-methoxyethanol				
	V	(364–396)	46.3	298	EB	[2012RED/KUM]
	V	(346–397)	43.0	361		[2010MAR/LOR]
	V	(333–423)	42.8	348	A	[1987STE/MAL]
	V		45.2 ± 0.2	298	C	[1971KUS/WAD]
	V	(324–343)	43.7	333		[1968GAR/BOV]
	V	(329–396)	42.9	344		[1956PIC/FRI]
$C_3H_8O_2$	[109-87-5]	dimethoxymethane				
	FUS		8.33	168.0		[1996DOM/HEA, 1964MCE/KIL]
	V	(273–357)	29.6	298		[2001ALB/HAH]
	V	(273–316)	31.2	288	A	[1987STE/MAL]
	V	(273–318)	29.8	288	A	[1987STE/MAL]
	V	(296–314)	30.3	305		[1976BRA/PES]
	V		28.9 ± 0.2	298	C	[1964MCE/KIL]
	V	(290–300)	30.0	290		[1964MCE/KIL]
	V	(273–308)	30.1	288		[1949NIC/LAF]
$C_3H_8O_2$	[57-55-6]	1,2-propanediol (propylene glycol)				
	V	(378–461)	57.5	393		[2011MAT/KIM]
	V	(284–331)	67.5 ± 0.5	298	GS	[2009VER/KOZ]
	V	(284–331)	64.5 ± 0.2	298	GS	[2004VER2]
[Note: The author recalculated this earlier value in a later paper [2009VER/KOZ]. The recalculated value was reported to be 68.5 ± 0.5 kJ/mole.]						
	V	(293–423)	76	298	EB	[2004CHY/FRA2]
	V	(366–396)	62.2	298	TGA	[2002TAT/DOL]
	V	(365–496)	60.0 ± 0.3	380	EB	[2002STE/CHI3]
	V	(365–496)	56.2 ± 0.2	420	EB	[2002STE/CHI3]
	V	(365–496)	52.0 ± 0.3	460	EB	[2002STE/CHI3]
	V	(365–496)	47.5 ± 0.6	500	EB	[2002STE/CHI3]
	V	(348–453)	63.6 ± 0.3	298	EB	[1991WIL/WIL, 2004VER2]
	V		U71.2 ± 0.1	298	C	[1990KNA/SAB3, 2004VER2]
	V	(373–408)	66.5	413	TGA	[1987ALN/ALS]
	V		U51.7	298	I	[1971SUN/EIS]
	V	(359–461)	64.7	298	EB	[1966THO/MEA, 2004VER2]
	V	(318–461)	58.6	333	A	[1987STE/MAL, 1947STU]
	V	(353–403)	58.2	378		[1935SCH/STA]
	V	(403–460)	56	431		[1935SCH/STA]
$C_3H_8O_2$	[4254-14-2]	(*R*)-1,2-propanediol (propylene glycol)				
	FUS		8.4	240	DSC	[1995JAB/LET]
$C_3H_8O_2$	[4254-15-3]	(*S*)-1,2-propanediol (propylene glycol)				
	FUS		8.4	240	DSC	[1995JAB/LET]
	V	(294–338)	69.2 ± 0.3	298	GS	[2009VER/KOZ]
$C_3H_8O_2$	[504-63-2]	1,3-propanediol				
	FUS		13.47	253.2	DSC	[2015SOL/ROD]
	FUS		11.4	249	DSC	[1998JAB/LET]
	FUS		7.1	245.5	DTA	[1990KNA/SAB]
	V	(293–346)	70.5 ± 0.3	298	GS	[2015EME/VER]
	V	(313–462)	73.6 ± 0.9	298		[2012MOK/SAW]
	V	(314–460)	66.5	298	EB	[2008RIB/SAN4]
	V	(353–383)	U84.2	298	TGA	[2007BAR/COZ, 2015EME/VER]
	V	(293–342)	70.5 ± 0.2	298	GS	[2007VER]
	V		69.8 ± 1.1	298	CGC	[2006UMN/KWE]
	V	(480–716)	69.1 ± 0.2	298		[2002WIL/VON, 2007VER]
	V	(418–488)	70.1 ± 1.0	298		[1999MUN/LEE, 2015EME/VER]
	V	(413–458)	70.6 ± 0.5	298	EB	[1996OLS, 2007VER]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(402–488)	70.1 ± 0.3	298	EB	[1981MAR/SAC, 2007VER]
	V	(367–489)	71.4 ± 0.8	298	EB	[1966THO/MEA, 2007VER, 2015VER/EME]
	V		72.4 ± 0.3	298	C	[1988KNA/SAB, 1990KNA/SAB2]
	V	(332–448)	57.2	347	A	[1987STE/MAL, 1947STU]
	V	(373–488)	65.2	298	EB	[1937GAL/HIB, 2007VER]
	V	(383–433)	63.3	408	EB	[1935SCH/STA]
	V	(383–433)	69.5 ± 1.6	298	EB	[1935SCH/STA, 2015EME/VER]
	V	(433–488)	60.4	460		[1935SCH/STA]
	V	(433–488)	69.6 ± 1.8	298		[1935SCH/STA, 2015EME/VER]
$C_3H_8O_2S$	[594-43-4]	ethyl methyl sulfone				
	FUS		11.3	307.7	RC	[1961BUS/IVI]
	SUB		77.8 ± 2.9			[UR/MAC, 1970COX/PIL]
$C_3H_8O_3$	[56-81-5]	glycerol				
	TRS		0.61	229.1		
	FUS		14.7	289.7	DSC	[2011SOU/NIS]
	FUS		18.28	291		[1991ACR, 1923GIB/GIA]
	V	(338–370)	85.5 ± 0.7	354	GS	[2015VER/ZAI2]
	V	(338–370)	90.7 ± 0.9	298	GS	[2015VER/ZAI2]
	V	(304–436)	81.3 ± 0.1	370	Static	[2015VER/ZAI2]
	V	(304–436)	90.5 ± 0.5	298	Static	[2015VER/ZAI2]
	V	(477–521)	75.8 ± 1.4	499	EB	[2013VEN/BEN, 2015VER/ZAI2]
	V	(477–521)	94.9	298	EB	[2013VEN/BEN, 2015VER/ZAI2]
	V	(352–463)	88.2 ± 0.9	298	Static	[2012MOK/SAW]
	V	(497–561)	69.3 ± 0.1	529	EB	[2010SOU/SAT, 2015VER/ZAI2]
	V	(497–561)	91.2 ± 1.7	298	EB	[2010SOU/SAT, 2015VER/ZAI2]
	V	(463–543)	72.9	503	TGA	[2008YAN/SUP, 2015VER/ZAI2]
	V	(463–543)	92.3 ± 2.5	298	TGA	[2008YAN/SUP, 2015VER/ZAI2]
	V		91.7 ± 0.9	298	C	[1988BAS/NIL]
	V	(469–563)	78.5	484	A	[1987STE/MAL]
	V	(291–341)	86.8	316	ME	[1977CAM/SCH]
	V		67.5	343	GC	[1977NOV/NOV]
	V		66.8	353	GC	[1977NOV/NOV]
	V		66.2	363	GC	[1977NOV/NOV]
	V		65.5	373	GC	[1977NOV/NOV]
	V		64.8	383	GC	[1977NOV/NOV]
	V	(278–323)	71.5	300		[1972MCF/SOM]
	V	(439–563)	71.4 ± 0.3	501	EB	[1972SOK/TSY, 2015VER/ZAI2]
	V	(439–563)	90.5 ± 1.5	298	EB	[1972SOK/TSY, 2015VER/ZAI2]
	V	(293–343)	85.8	308	ME	[1987STE/MAL, 1962ROS/HEI, 1970DYK]
	V	(323–473)	82.8 ± 0.4	398	EB	[1928STE, 2015VER/ZAI2]
	V	(323–473)	91.5 ± 0.8	298	EB	[1928STE, 2015VER/ZAI2]
	V	(456–553)	86	471	EB	[1886RIC]
$C_3H_8O_3S$	[10315-59-0]	ethyl methyl sulfite				
	V		43.5 ± 1.7	298	BP	[1969MAC/STE2]
C_3H_8S	[624-89-5]	ethyl methyl sulfide				
	FUS		9.76	167.2		[1996DOM/HEA, 1951SCO/FIN]
	V	(253–363)	33.7	268		[1999DYK/SVO]
	V		31.5	298		[1981SHI/SAI]
	V		32.3	287		[1960MAC/MAY]
	V	(296–373)	31.8	311	A, EB	[1987STE/MAL, 1951SCO/FIN]
	V		31.8	298		[1971WIL/ZWO, 1966OSB/DOU, 1954HUB/WAD]
	V		31.6	302		[1951SCO/FIN]
	V		30.7	320		[1951SCO/FIN]
	V		29.5	340		[1951SCO/FIN]
	V		30.3	338		[1935THO/LIN]
C_3H_8S	[107-03-9]	1-propanethiol				
	TRS	(12–320)	3.97	142.1		
	FUS	(12–320)	5.48	160	AC	[1996DOM/HEA, 1956PEN/SCO]
	V	(254–364)	33.7	269		[1999DYK/SVO]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		31.9	298		[1971WIL/ZWO]
	V	(297–375)	31.8	312	A, EB	[1987STE/MAL, 1956PEN/SCO, 1966OSB/DOU, 1954HUB/WAD]
	V		31.6 ± 0.1	303	C	[1956PEN/SCO]
	V		30.7 ± 0.1	320	C	[1956PEN/SCO]
	V		29.5 ± 0.1	341	C	[1956PEN/SCO]
	V	(284–340)	31.5	312		[1933TAY/LAY]
C_3H_8S	[75-33-2]	2-propanethiol				
	TRS		0.05	112.5		
	FUS		5.73	142.6		[1996DOM/HEA, 1954MCC/FIN2]
	V	(242–348)	31.9	257		[1999DYK/SVO]
	V		29.5	298		[1971WIL/ZWO]
	V	(283–358)	30.1	298	A, EB	[1987STE/MAL, 1954MCC/FIN2, 1966OSB/DOU, 1954HUB/WAD]
$C_3H_8S_2$	[109-80-8]	1,3-propanedithiol				
	V	(338–446)	50.9	353		[1999DYK/SVO]
	V	(377–446)	41.6	398	A	[1987STE/MAL]
	V		49.7 ± 0.1	298		[1962MAN/SUN]
C_3H_9N	[75-31-0]	isopropylamine				
	FUS		7.33	178		[1991ACR, 1972FIN/MES]
	V		28.4	298		[1979MAJ/SVO2]
	V		27.2	313		[1979MAJ/SVO2]
	V	(277–334)	29.7	292	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU, 1970DYK]
C_3H_9N	[107-10-8]	propylamine				
	FUS		10.97	188.4		[1991ACR, 1972FIN/MES]
	V		31.3	298		[1979MAJ/SVO2]
	V		30.1	313		[1979MAJ/SVO2]
	V		28.9	328		[1979MAJ/SVO2]
	V	(296–350)	31.3	311	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU, 1970DYK]
C_3H_9N	[75-50-3]	trimethylamine				
	FUS		6.55	156.1		[1991ACR, 1983WEA, 1944AST/SAG]
	V	(333–403)	23.0	368		[1950DAY/FEL]
	V	(273–313)	24.1	288		[1945SWI/HOC]
	V	(193–276)	24.6	261	A	[1987STE/MAL, 1944AST/SAG]
	V		24.5	250	C	[1944AST/SAG]
	V		22.2	276		[1935WIB/SUT]
C_3H_9NO	[109-83-1]	2-(methylamino)ethanol				
	V	(275–320)	57.8 ± 0.2	298	GS	[2005KAP/SLO]
	V	(269–401)	57.9	298		[1998NOL/VAL, 2005KAP/SLO]
	V	(340–461)	54.7 ± 0.5	340	EB	[1997STE/CHI3]
	V	(340–461)	51.9 ± 0.4	380	EB	[1997STE/CHI3]
	V	(340–461)	50.2 ± 0.4	400	EB	[1997STE/CHI3]
	V	(340–461)	46.4 ± 0.5	440	EB	[1997STE/CHI3]
	V	(340–461)	57.0 ± 0.5	298	EB	[1997STE/CHI3]
	V	(351–410)	57.6	298	EB	[1987SMI/TER, 2005KAP/SLO]
	V	(298–308)	57.5	298		[1982TOU/OKA, 2005KAP/SLO]
C_3H_9NO	[78-96-6]	1-amino-2-propanol				
	V	(306–431)	51.6	321	A	[1987STE/MAL]
C_3H_9NO	[156-87-6]	3-amino-1-propanol				
	FUS		20.42	285.2	DSC	[2015SOL/ROD]
	FUS		16.9	284.1	DSC	[2003CAC/BAU]
C_3H_9NO	[5669-39-6]	*N*-methoxy dimethyl amine (trimethylhydroxylamine)				
	V	(194–297)	28	282	A	[1987STE/MAL, 1957BIS/PAR]
C_3H_9NO	[109-85-3]	2-methoxyethyl amine				
	V	(278–318)	38.8	293	A	[1987STE/MAL, 1978CAB/MOL]
	V	(278–318)	38.3 ± 0.1	298		[1978CAB/MOL]

TABLE 6. Phase change enthalpies of C_3 organic compounds—Continued

Molecular formula	CAS Reg. No. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_3H_9NO_2S$	[177634-55-8]	trimethyl amine . sulfur dioxide complex				
	SUB	(292–349)	60.6	307	A	[1987STE/MAL, 1943BUR2]
C_3H_9O P	[676-96-0]	trimethyl amine . sulfur dioxide complex				
	SUB		50.2 ± 4.2		E	[1982PIL/SKI, 1960CLA/FOW]
$C_3H_9O_3P$	[756-79-6]	methylphosphonic acid, dimethyl ester				
	V	(258–454)	54.9	273	GS	[2009BUT/BUC]
	V	(258–454)	52.8	298	GS	[2009BUT/BUC]
	V	(258–454)	51.8	313	GS	[2009BUT/BUC]
	V	(258–454)	50.6	333	GS	[2009BUT/BUC]
	V	(258–454)	49.5	353	GS	[2009BUT/BUC]
	V	(336–408)	64.0	351	A	[1987STE/MAL, 1955KOS]
$C_3H_9O_3P$	[121-45-9]	trimethyl phosphite				
	V	(302–342)	42.5	317	EB	[1990DUT/KAH]
	V	(422–494)	32.8	437	A	[1987STE/MAL]
$C_3H_9O_4P$	[512-56-1]	trimethyl phosphate				
	V	(408–438)	47.5	298	CGC	[2007PAN/ANT2]
	V	(296–466)	48.8	311	A	[1987STE/MAL, 1947STU]
	V	(346–469)	47.3	408		[1930EVA/DAV]
C_3H_9P	[594-09-2]	trimethyl phosphine				
	V	(248–310)	28.9	263	A	[1987STE/MAL]
	V		28.0 ± 2.1			[1957LON/SAC, 1962BER/MCK]
	V		29.0			[1955LON/SAC2]
	V		29.1			[1940ROS/SAN]
C_3H_9PS	[2404-55-9]	trimethylphospine sulfide				
	SUB	(366–394)	70.3	380		[1966BUR]
$C_3H_{10}N_2$	[109-76-2]	1,3-diaminopropane				
	FUS		22.36	262.19	DSC	[2005DOM/MAR]
	TRS		10.53	260.6		
	FUS		12.19	262.4	DSC	[2002DAL/DEL]
	V	(243–300)	50.3	298	Static	[2014FUL/RUZ]
	V	(278–338)	49.5	308	GS	[2011POZ/VER]
	V	(278–338)	50.1 ± 0.2	298	GS	[2011POZ/VER]
	V		50.2 ± 0.1	298	C	[1969WAD]
$C_3H_{10}N_2$	[78-90-0]	(*dl*)-1,2-propanediamine				
	TRS	(12–367)	0.07	222		
	FUS	(12–367)	18.42	236.5	AC	[1996DOM/HEA, 1975MES/FIN]
	V	(274–306)	46.7 ± 0.3	298	GS	[2015VER/EME2]
	V	(293–393)	42.2	308	A	[1987STE/MAL]
	V	(242–293)	47.2	278	A, IPM	[1987STE/MAL, 1975MES/FIN]
	V	(242–293)	43.9 ± 0.2	298	IPM	[1975MES/FIN]
	V	(242–293)	46.1 ± 0.2	298	IPM	[1975MES/FIN, 2015VER/EME2]
[Note: Error in data treatment noted in [1975MES/FIN].]						
	V		44.2 ± 0.2	298	IPM	[1965DOU/OSB, 1970GOO/MOO]
$C_3H_{10}N_2$	[1741-01-1]	trimethylhydrazine				
	FUS	(12–294)	9.49	201.2		[1996DOM/HEA, 1955AST/ZOL]
	V	(257–287)	34.6	272		[1955AST/ZOL]
	V		33.4 ± 0.1	292	C	[1955AST/ZOL]
C_3N_2O	[1115-12-4]	carbonyl cyanide				
	V	(250–291)	37.5	276	A	[1987STE/MAL, 1948GLE/HAU]
C_3O_2	[504-64-3]	carbon suboxide				
	V	(161–249)	26.2	234	A	[1987STE/MAL, 1965MCD/KIL]
	V	(242–277)	25.4	260		[1927EDW/WIL]
C_3S_2	[627-34-9]	carbon subsulfide				
	V	(287–383)	45.1	302	A	[1987STE/MAL]

TABLE 7. Phase change enthalpies of C_4 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4BrClF_9N	[4905-97-9]	1,1,2-trifluoro-2-chloro-2-bromo-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(329–364)	33.1	344	A	[1987STE/MAL, 1965HAS/TIP]
$C_4BrCl_2F_8N$	[4905-98-0]	2-bromo-1,2-dichloro-1,2-difluoro-*N,N*-bis(trifluoromethyl)ethamine				
	V	(358–394)	36.5	376		[1965HAS/TIP]
C_4BrF_6N	[22130-38-7]	2-bromo-*N,N*-bis(trifluoromethyl)ethynylamine				
	V	(311–329)	30.4	320	A	[1987STE/MAL, 1969FRE/TIP]
C_4BrF_8N	[17725-57-4]	*N,N*-bis(trifluoromethyl)-2,2-difluoro-1-bromovinylamine				
	V	(293–320)	31.2	320	A	[1987STE/MAL, 1968HAS/TIP]
C_4BrF_8NO	[104550-50-7]	4-bromo-3-(trifluoromethyl)perfluorooxazolidine				
	V		30.7			[1986OBR/LAM]
$C_4BrF_9O_3S$	[14609-27-9]	2-bromo-3-fluorosulfatooctafluorobutane				
	V	(313–372)	43.5	342		[1966EAR/HIL]
$C_4BrF_{10}N$	[2261-32-7]	1,1,2,2-tetrafluoro-2-bromo-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(289–329)	30.4	304	A	[1987STE/MAL, 1965HAS/TIP]
$C_4Br_2Cl_2F_6$	[375-42-8]	1,4-dibromo-2,3-dichloro-1,1,2,3,4,4-hexafluorobutane				
	V		47.7 ± 0.1	308	C	[1992SVO/KUB2]
	V		46.9 ± 0.1	315	C	[1992SVO/KUB2]
$C_4Br_2F_9N$	[17725-58-5]	1,2-dibromo-1,2,2-trifluoro-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(326–366)	34.3	341	A	[1987STE/MAL, 1968HAS/TIP]
C_4Br_4S	[3958-03-0]	tetrabromothiophene				
	FUS		21.1	391.8	DSC	[2014YAN/WAN]
C_4ClF_8N	[14003-64-6]	2-chloro-1,2-difluoro-*N,N*-bis(trifluoromethyl)vinylamine				
	V	(273–312)	29.1	288	A	[1987STE/MAL, 1968HAS/TIP]
C_4ClF_8NO	[82135-35-1]	4-chloro-3-(trifluoromethyl)perfluorooxazolidine				
	V		27.9			[1986OBR/LAM]
$C_4ClF_{10}N$	[54566-79-9]	*N*-chloro-1,1,2,2,2-pentafluoro-*N*-(pentafluoroethyl)ethanamine				
	V		27.2	325		[1975PET/SHR2]
$C_4ClF_{10}N$	[53684-04-1]	*N*-chloro-1,1,,1,2,3,3,3-heptafluoro-*N*-(trifluoromethyl)-2-propanamine				
	V		28.9	325		[1975KIR/LAS]
$C_4ClF_{12}NS$	[62609-69-2]	chlorodifluoro[1,1,1,2,3,3,3-heptafluoro-2-propanaminoto(2-)](trifluoromethyl) sulfur				
	V		37.7	402		[1977KIT/SHR2]
$C_4ClF_{13}S$	[42769-87-9]	sulfur, chlorotetrafluoro(nonafluorobutyl)-				
	V		37.1			[1973ABE/SHR2]
$C_4Cl_2F_6$	[20972-44-5]	1,4-dichloro-hexafluoro-2-butene				
	V	(279–330)	34.0	294	A	[1987STE/MAL]
$C_4Cl_2F_6$	[2418-22-6]	*cis*-2,3-dichloro-hexafluoro-2-butene				
	V	(298–341)	32.5	313	A	[1987STE/MAL, 1958DIC/HIL]
$C_4Cl_2F_6$	[2418-21-5]	*trans*-2,3-dichloro-hexafluoro-2-butene				
	V	(298–340)	32.2	313	A	[1987STE/MAL, 1958DIC/HIL]
$C_4Cl_2F_7N$	[89033-96-5]	2,3,4,4-tetrafluoro-2,3-dichloro-(trifluoromethyl)azetidine				
	V	(273–333)	32.6	288	A	[1987STE/MAL, 1965BAN/BAR]
$C_4Cl_2F_7N$	[4776-86-7]	2,3-dichlorotetrafluoropropylidenetrifluoromethylamine				
	V	(283–343)	27.0	313		[1965BAN/BAR]
$C_4Cl_3F_7$	[335-44-4]	2,3,3-trichloroheptafluorobutane				
	V	(350–371)	33.3	360		[1959YEN/REE]
	V	(350–371)	35.6	298		[1959YEN/REE]
	V	(302–446)	36.4	317	MM, A	[1987STE/MAL, 1956CAP/JAC]
$C_4Cl_4F_4$	[357-19-7]	1,2,3,4-tetrachlorotetrafluoro-1-butene				
	V	(362–414)	39.4	377	A	[1987STE/MAL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4Cl_4F_6O$	[61136-57-0]	trichloromethyl 2-chloro-1,1,2,3,3,3-hexafluoropropyl ether				
	V	(325–403)	40.3	340	A	[1987STE/MAL]
	V		42.8 ± 0.7	298	EB	[1976AMM/BUL]
$C_4Cl_4N_2$	[1780-40-1]	2,4,5,6-tetrachloropyrmidine				
	SUB		83.0 ± 1.0	298	C	[2007RIB/AMA]
C_4Cl_6	[87-68-3]	perchloro-1,3-butadiene				
	V	(343–484)	58.6	358	A	[1987STE/MAL]
	V	(343–473)	60.4	358		[1971GEL/SIM, 1984BOU/FRI]
$C_4Cl_6O_3$	[4124-31-6]	trichloroacetic anhydride				
	V	(329–496)	56.0	344	A	[1987STE/MAL, 1947STU]
$C_4F_2N_8O_4$	[604739-72-2]	1,1′-difluoro-3,3′-dinitro-5,5′-bi-1*H*-1,2,4-triazole				
	SUB		105.4 ± 3.3	298		[2003MIR/LEB]
C_4F_6	[685-63-2]	hexafluoro-1,3-butadiene				
	V	(273–343)	25.9	288		[2002BOB/FED]
$C_4F_6N_2S$	[71148-78-2]	3,4-bis(trifluoromethyl)-1λ4-1,2,5-thiadiazole				
	FUS		11.5	284	DSC	[2000BRO/DU, 1989HAN]
	FUS		10.8	284	S-F	[2000BRO/DU]
	SUB	(253–283)	49.0 ± 1.5	268	PG	[2000BRO/DU]
	V		38.1 ± 0.5			[2000BRO/DU]
$C_4F_6O_3$	[407-25-0]	trifluoroacetic anhydride				
	V	(271–312)	34.7	286	A	[1987STE/MAL, 1962KRE, 1971DYK]
C_4F_7NO	[4222-29-1]	4,4-difluoro-3-(difluoromethylene)-2-(trifluoromethyl)-1,2-oxazetidine				
	V	(238–283)	31.1	268	A, I	[1987STE/MAL, 1960GRI/HAZ]
C_4F_7NO	[4777-13-3]	3,6-dihydro-2,2,3,3,5,6,6-heptafluoro-2*H*-1,4-oxazine				
	V	(249–293)	27.3	278	A	[1987STE/MAL, 1965BAN/BUR]
$C_4F_7NO_3S$	[26404-53-5]	fluorosulfuric ester 3,3,3-trifluoro-2-(trifluoromethyl)lactonitrile				
	V	(262–320)	31.2	277	A	[1987STE/MAL, 1970LUS]
C_4F_8	[357-26-6]	perfluoro-1-butene				
	V	(203–279)	28.9	264	A, I	[1987STE/MAL, 1971DYK, 1953ATK/TRE]
	V	(250–293)	U14.4	265		[1984BOU/FRI]
	V	(203–279)	28.9	241	I	[1953ATK/TRE]
C_4F_8	[115-25-3]	perfluorocyclobutane				
	FUS	(17–270)	2.77	233.0	AC	[1954FUR/MCC]
	V	(289–348)	23.5	304	A	[1987STE/MAL]
	V	(343–388)	23.2	358	A	[1987STE/MAL]
	V	(233–388)	25	248		[1967KLE/PET]
	V	(234–269)	25	254		[1962MAR, 1984BOU/FRI]
	V	(233–274)	24.9	259	A	[1987STE/MAL, 1954FUR/MCC]
	V	(235–261)	24.8	248	I	[1953ATK/TRE]
	SUB	(223–233)	30.3	228	I	[1953ATK/TRE]
$C_4F_8N_2O_2S$	[66918-60-3]	*N*,*N*′-bis(trifluoroacetyl)sulfur difluorodiimide				
	V	(328–383)	43.5	355		[1978STA/MEW]
$C_4F_8N_2O_3$	[382-38-7]	perfluoro-2-(tetrafluoro-2-nitroethyl)-1,2-oxazetidine				
	V	(273–343)	31.0	288	A	[1987STE/MAL, 1962BIR/BLO]
C_4F_8OS	[42060-62-8]	perfluorotetramethylene sulfoxide				
	V		37.1			[1973ABE/SHR]
$C_4F_8O_2S$	[42060-64-0]	perfluorotetramethylene sulfone				
	V		31.1			[1973ABE/SHR]
$C_4F_8O_4S$	[6069-35-8]	heptaflurobutyric acid and fluorosulfuric acid anhydride				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(268–352)	44.8	283	A	[1987STE/MAL, 1966DES/CAD]
C_4F_8S	[706-76-3]	octafluorotetramethylene sulfide				
	TRS		10.88	146		
	FUS		2.09	266.7		[1961VAN]
	V		26.9			[1973ABE/SHR]
$C_4F_8S_2$	[710-65-6]	perfluoro-1,4-dithiane				
	V		33.0			[1973ABE/SHR]
C_4F_9N	[453-22-5]	1,1,1-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methanamine				
	V		22.2	288		[1975KIR/LAS]
C_4F_9N	[13821-49-3]	perfluoro[*N,N*-dimethyl(vinylamine)]				
	V	(257–280)	27.5	268	A	[1987STE/MAL, 1968HAS/TIP]
C_4F_9N	[680-23-9]	perfluoro[*N*-methyl(propylidineamine)]				
	V	(245–280)	26.6	265	A	[1987STE/MAL, 1968HAS/TIP]
C_4F_9N	[378-00-7]	perfluoro[*N*-propyl(methylenenamine)]				
	V	(250–291)	28.3	276	A	[1987STE/MAL, 1956BAR/HAS]
C_4F_9NO	[32822-51-8]	nonafluorobutyramide				
	V		29.7	306	HG	[1971DEM/SHR]
C_4F_9NO	[359-68-2]	2,2,4,4,5,5-hexafluoro-3-(trifluoromethyl)oxazolidine				
	V	(253–293)	27.4	278	A	[1987STE/MAL, 1965BAN/BUR]
	V		27.8			[1986OBR/LAM]
C_4F_9NO	[714-52-3]	perfluoro[2,4-bis(trifluoromethyl)-1,2-oxazetidine				
	V	(266–289)	25.9	278	A	[1987STE/MAL, 1961BAR/HAS]
C_4F_9NOS	[31340-35-9]	1,1,1-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methanesulfinamide				
	V		36.4	361	I	[1972SWI/BAB]
$C_4F_9NO_2$	[15496-02-3]	*O*-(trifluoroacetyl)-*N,N*-bis(trifluoromethyl)hydroxylamine				
	V	(234–296)	30.5	281	A	[1987STE/MAL, 1967BAB/SHR]
$C_4F_9NO_2S$	[34556-29-1]	*N*-(trifluoroacetyl)-*S,S*-bis(trifluoromethyl)sulfoximine				
	V		35.1	363	I	[1972SAU/SHR]
$C_4F_9NO_3$	[55064-78-3]	2,2,2-trifluoro-1,1-bis(trifluoromethyl) nitrate				
	V		33.5			[1975WAL/DES]
C_4F_9NS	[31340-34-8]	1,1,1-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methanesulfenamide				
	V		31.4	324	I	[1972SWI/BAB]
C_4F_{10}	[355-25-9]	perfluorobutane				
	V	(272–327)	24.2	287	A	[1987STE/MAL]
	V	(233–273)	24.2	258	A	[1987STE/MAL]
	V	(323–386)	23.1	338	A	[1987STE/MAL]
	V	(233–383)	21.0	293		[1958BRO/MEA]
	V	(233–383)	17.1	333		[1958BRO/MEA]
	V	(233–260)	25.8	247		[1952SIM/MAU, 1984BOU/FRI]
	V	(245–363)	23.3	304	I	[1947FOW/HAM]
$C_4F_{10}OS$	[33622-18-3]	heptafluoropropyl trifluoromethyl sulfoxide				
	V		33.6			[1971SAU/SHR]
$C_4F_{10}OS$	[33622-19-4]	bis(pentafluoroethyl) sulfoxide				
	V		35.1			[1971SAU/SHR]
$C_4F_{10}O_3S$	[5762-52-7]	fluorosulfuric acid, perfluoro(1-methylpropyl) ester				
	V	(294–342)	33.8	309	A	[1987STE/MAL]
	V	(266–354)	32.2	343		[1966DEL/SHR]
$C_4F_{10}O_4S$	[55064-77-2]	fluoroperoxymonosulfuric acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl ester				
	V			37.6		[1975WAL/DES]
$C_4F_{10}O_6S_2$	[2261-44-1]	1,1,1,2,3,4,4,4-octafluoro-2,3-bis(fluorosulfato)butane				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(316–393)	30.1	331	A	[1987STE/MAL, 1964RAT/SHR]
	V	(392–411)	27.1	401	A	[1987STE/MAL, 1964RAT/SHR]
$C_4F_{10}S$	[42060-60-6]	octafluoroetramethylene sulfur difluoride				
	V		41.5			[1973ABE/SHR]
$C_4F_{10}S$	[33547-11-4]	heptafluoropropyl trifluoromethyl sulfide				
	V		27.7			[1971SAU/SHR]
$C_4F_{11}NOS$	[62609-62-5]	difluoro(1,1,1,3,3,3-hexafluoro-2-propaniminato)oxo(trifluoromethyl) sulfur				
	V		35.1	396	I	[1977KIT/SHR]
$C_4F_{11}NS$	[37826-43-0]	fluoro(trifluoromethyl)[2,2,2,1-tetrafluoro-1-(trifluoromethyl)ethyl]imino sulfur				
	V	(300–333)	32.4	315	A, I	[1987STE/MAL, 1972SWI/SHR]
$C_4F_{12}N_2O$	[10405-32-0]	perfluoro(2,3-dimethyl)-4-oxo-diazepentane				
	V	(276–308)	32	291	A	[1987STE/MAL, 1971DYK, 1966HAS/TIP]
$C_4F_{12}N_2O$	[6141-72-6]	perfluoro(2,4-dimethyl)-3-oxo-diazepentane				
	V	(288–318)	30.1	303	A	[1987STE/MAL, 1971DYK, 1966HAS/TIP]
$C_4F_{12}N_2S$	[4101-59-1]	difluoro bis[1,1,2,2,2-pentafluorothananaminato]sulfur				
	V		37.0			[1976STA/MEW]
$C_4F_{12}OP_2S_2$	[35814-50-7]	bis(trifluoromethyl)thiophosphinic anhydride				
	V	(281–333)	37.1	307		[1972PIN/CAV]
$C_4F_{12}OS$	[33564-25-9]	difluoro bis[1,1,2,2,2-pentafluorothananaminato]sulfur				
	V	(284–341)	33.8	299		[1999DYK/SVO]
	V	(284–341)	28.6	299		[1971SAU/SHR]
$C_4F_{12}O_2S$	[63465-11-2]	bis(trifluoromethyl)bis(trifluoromethoxy) sulfur				
	V	(273–325)	29.3	288	A, I	[1987STE/MAL, 1977KIT/SHR3, 1978KIT/SHR]
$C_4F_{12}O_3S$	[66632-46-0]	oxo bis(trifluoromethyl)bis(trifluoromethoxy) sulfur				
	V	(273–335)	33.4	288	A, I	[1987STE/MAL, 1978KIT/SHR]
$C_4F_{12}P_2S$	[1486-20-0]	di[bis(trifluoromethyl)phosphino] sulfide				
	V	(273–335)	42.2	304	T	[1964CAV/EME]
$C_4F_{12}P_4$	[393-02-2]	1,2,3,4-tetrakis(trifluoromethyl)tetraphosphetane				
	SUB	(292–339)	65.3	307	A	[1987STE/MAL, 1958MAH/BUR]
	V	(313–375)	43.2	328	A, SG	[1987STE/MAL, 1958MAH/BUR]
$C_4F_{12}S$	[33622-15-0]	difluorobis(pentafluoroethyl) sulfur				
	V	(284–341)	34.0	299	A	[1987STE/MAL]
	V		32.2			[1971SAU/SHR]
$C_4F_{12}S$	[31206-31-2]	difluoro(heptafluoropropyl) (trifluoromethyl) sulfur				
	V		32.8			[1971SAU/SHR]
$C_4F_{13}NOS$	[65844-09-9]	trifluoro[1,1,1,2,3,3,3-heptafluoro-2-propanaminoato(2-)](trifluoromethanolato) sulfur				
	V		33.9	389	I	[1978KIT/SHR]
$C_4F_{15}N_2O_2P$	[36544-20-4]	phosphorous bis[bis(trifluoromethyl)nitroxide] difluoride				
	V	(303–370)	37.6	336		[1973WAN/SHR]
$C_4F_{16}S_2$	[4556-31-4]	hexadecafluoro-octahydro-1,4-dithiane				
	V	(323–408)	40.5	365		[1999DYK/SVO, 1973ABE/SHR]
C_4N_2	[1071-98-3]	dicyanoacetylene				
	SUB	(263–273)	44.3	268	I	[1957SAG, 1975GRO, 1987STE/MAL]
	V	(295–350)	27.3	310	A	[1987STE/MAL]
	V		28.8			[1957SAG]
$C_4N_6O_7$	[152845-81-3]	3,3′-dinitrofurazanyl ether				
	V	(453–713)	57.4	583	BG	[2016SIN/BUR]
C_4HBrF_7N	[25273-49-8]	1-bromo-2-fluoro-*N,N*-bis(triflurometyl)vinylamine				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(321–342)	29.8	331	A	[1987STE/MAL, 1969FRE/TIP2]
C_4HBrF_9N	[4908-99-0]	2-bromo-1,1,2-trifluoro-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(308–342)	31.9	323	A	[1987STE/MAL, 1965HAS/TIP]
C_4HBrF_9N	[4908-99-0]	2-bromo-1,2,2-trifluoro-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(301–332)	33.8	316	A	[1987STE/MAL, 1965HAS/TIP]
$C_4HBr_2F_6N$	[22298-34-6]	*trans*-1,2-dibromo-*N,N*-bis(trifluromethyl)vinylamine				
	V	(355–382)	33.4	369	A	[1987STE/MAL, 1969FRE/TIP]
$C_4HCl_2F_5O_2$	[375-07-5]	3,4-dichloro-2,2,3,4,4-pentafluorobutyric acid				
	V	(373–456)	54.8	388	A	[1987STE/MAL, 1957BAR/SEF]
$C_4HCl_3N_2$	[3764-01-0]	2,4,6-trichloropyrimidine				
	V		55.6 ± 0.6	298	C	[2007RIB/AMA]
C_4HF_5	[7096-51-7]	3,3,4,4,4-pentafluoro-1-butyne				
	V	(203–261)	23.6	246	A	[1987STE/MAL, 1952HAS/LEE]
C_4HF_6N	[13747-21-2]	*N,N*-bis(trifluoromethyl)ethynylamine				
	V	(229–271)	26.0	256	A	[1987STE/MAL, 1968FRE/TIP]
$C_4HF_6N_3$	[709-62-6]	3,5-bis(trifluoromethyl)-1,2,4-triazole				
	SUB	(271–283)	75.6 ± 0.8	277	ME	[1994TIP/JIM]
	SUB	(271–283)	74.7 ± 0.8	298	ME	[1994TIP/JIM]
$C_4HF_7O_2$	[375-22-4]	perfluorobutyric acid				
	V	(310–426)	50.1 ± 0.2	320	EB	[2002STE/CHI5]
	V	(310–426)	45.9 ± 0.2	360	EB	[2002STE/CHI5]
	V	(310–426)	41.0 ± 0.5	400	EB	[2002STE/CHI5]
	V	(329–493)	47.8	344	A	[1987STE/MAL]
	V	(353–393)	47.3	368	A	[1987STE/MAL]
C_4HF_8N	[14003-49-7]	*N,N*-bis(trifluoromethyl)-1,2-difluorovinylamine				
	V	(276–296)	28.8	286	A	[1987STE/MAL, 1968HAS/TIP]
C_4HF_8N	[13747-23-4]	*N,N*-bis(trifluoromethyl)-2,2-difluorovinylamine				
	V	(274–291)	27.7	282	A	[1987STE/MAL, 1968HAS/TIP]
C_4HF_8NO	[13580-54-6]	2,2,3,3,5,5,6,6-octafluoromorpholine				
	V	(273–323)	32.7	288	A	[1987STE/MAL, 1967BAN/HAS]
C_4HF_8NOS	[77589-47-0]	2,2,3,3,4,4,5,5-octafluoro-1,1,2,3,4,5-hexahydro-1-iminothiophene-1-oxide				
	V		28.0	397		[1981ABE/SHR]
$C_4HF_9N_2OS$	[62609-65-8]	1,1,1-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methanesulfonimidamide				
	V		37.2	388	I	[1977KIT/SHR]
$C_4HF_9O_2S$	[52225-50-0]	trifluoromethanesulfinic acid, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ester				
	V		39.3	362	HG	[1974MAJ/SHR]
$C_4HF_{10}N$	[54566-81-3]	1,1,1,2,3,3,3-heptafluoro-*N*-(pentafluoroethyl)ethanamine				
	V		26.4	306		[1975PET/SHR2]
$C_4HF_{10}N$	[53684-05-2]	1,1,1,2,3,3,3-heptafluoro-*N*-(trifluoromethyl)-2-propanamine				
	V		28.1	309		[1975KIR/LAS]
$C_4HF_{10}NOS$	[34556-24-6]	*S,S*-bis(pentafluoroethyl)sulfoximine				
	V		35.6	366	I	[1972SAU/SHR]
C_4H_2	[460-12-8]	1,3-butadiyne				
	SUB	(190–232)	36.2	211	A	[1947STU]
	SUB	(188–234)	36.3			[1933TAN]
	V	(237–283)	26.1	268	A	[1987STE/MAL, 1971DYK]
	V	(191–282)	26.4	267		[1947STU]
	V	(188–234)	33.4	219		[1933TAN, 1984BOU/FRI]
	V	(195–273)	25.4	258		[1926STR, 1984BOU/FRI]
$C_4H_2BrF_6N$	[19451-87-7]	1-bromo-*N,N*-bis(trifluoromethyl)vinylamine				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(288–327)	32.8	303	A	[1987STE/MAL, 1968FRE/TIP]
$C_4H_2BrF_6N$	[19483-21-7]	*cis*-2-bromo-*N,N*-bis(trifluoromethyl)vinylamine				
	V	(314–346)	29.7	329	A	[1987STE/MAL, 1968FRE/TIP]
$C_4H_2BrF_6N$	[19483-20-6]	*trans*-2-bromo-*N,N*-bis(trifluoromethyl)vinylamine				
	V	(314–341)	30.0	327	A	[1987STE/MAL, 1968FRE/TIP]
$C_4H_2BrF_8N$	[6857-63-2]	2-bromo-1,2-difluoro-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(323–348)	32.4	328	A	[1987STE/MAL, 1965HAS/TIP]
$C_4H_2BrF_8N$	[5003-73-6]	2-bromo-2,2-difluoro-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(313–348)	33.6	328	A	[1987STE/MAL, 1965HAS/TIP]
$C_4H_2Br_2S$	[3141-26-2]	3,4-dibromothiophene				
	V	(333–374)	32.1	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
$C_4H_2Cl_2N_2$	[4774-14-5]	2,6-dichloropyrazine				
	SUB		69.9 ± 2.0	298	C	[2004MOR/MIR]
$C_4H_2Cl_2N_2$	[3934-20-1]	2,4-dichloropyrimidine				
	SUB		76.5 ± 2.0	298	C	[2007RIB/AMA]
$C_4H_2Cl_2O_2$	[627-63-4]	*trans*-fumaroyl chloride				
	V	(288–433)	45.6	303	A	[1987STE/MAL, 1947STU]
$C_4H_2Cl_2S$	[3172-52-9]	2,5-dichlorothiophene				
	FUS		12.0	231.4	DSC	[2011TAN/FUJ]
	FUS	(13–300)	11.87	232.7	AC	[2006FUJ/MAT]
	V	(323–425)	49.9	338		[1999DYK/SVO]
	V	(323–425)	36.2	338		[1999DYK/SVO]
	V	(323–425)	40.7	338		[1981DIT/SKO]
	V	(333–374)	33.7	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
$C_4H_2F_4$	[407-70-5]	1,1,4,4-tetrafluoro-1,3-butadiene				
	V	(239–271)	22.4	256	A	[1987STE/MAL]
$C_4H_2F_8$	[662-35-1]	1,1,1,2,2,3,3,4-octafluorobutane				
	V	(260–278)	28.9	269	EB	[1997DEF/CAR]
$C_4H_2F_6OS$	[35709-12-7]	*S*-(1,2,2-trifluoroethyl) trifluorothioacetate				
	V	(282–322)	32.6	302		[1971WEE/GAR]
$C_4H_2F_6O_2$	[407-38-5]	trifluoroacetic acid, 2,2,2-trifluoroethyl ester				
	V		31.8	330	HG	[1973MAJ/SHR]
$C_4H_2F_7N$	[25273-51-2]	*cis*-2-fluoro-*N,N*-bis(trifluoromethyl)vinylamine				
	V	(289–311)	29.1	300	A	[1987STE/MAL, 1969FRE/TIP2]
$C_4H_2F_7N$	[25211-47-6]	*trans*-2-fluoro-*N,N*-bis(trifluoromethyl)vinylamine				
	V	(273–295)	28.5	284	A	[1987STE/MAL, 1969FRE/TIP2]
$C_4H_2F_8$	[662-35-1]	1,1,1,2,2,3,3,4-octafluorobutane				
	V	(260–278)	28.9	269	EB	[1997DEF/CAR]
$C_4H_2F_8O$	[26103-08-2]	2-difluoromethoxy-1,1,1,3,3,3-hexafluoropropane				
	V	(283–315)	31.1	298	I	[2002MUR/YAM]
$C_4H_2F_8O_2$	[188690-78-0]	1,2-bis(difluoromethoxy)-1,1,2,2-tetrafluoroethane				
	FUS		11.8	195	DSC	[1999MAR/BAS]
	V	(253–331)	36.1 ± 0.2			[1999MAR/BAS]
$C_4H_2F_8O_3$	[249932-25-0]	oxybis[(difluoromethoxy)difluoromethane]				
	FUS		3.1	153	DSC	[1999MAR/BAS]
	V	(253–341)	35.2 ± 0.2			[1999MAR/BAS]
$C_4H_2N_2$	[764-42-1]	fumaronitrile				
	SUB	(250–269)	69.6	260	TE, ME	[1983DEW/VAN]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		68.6	298		[1983DEW/VAN]
	SUB	(245–281)	72 ± 0.8	263	ME	[1967BOY/GUH, 1970COX/PIL]
$C_4H_2N_2O_4S$	[5347-12-6]	2,4-dinitrothiophene				
	V	(388–523)	59.7	403	A	[1987STE/MAL, 1971DYK, 1999DYK/SVO, 1929BAB/JAC]
$C_4H_2N_2O_4S$	[59434-05-8]	2,5-dinitrothiophene				
	V	(388–523)	59.6	403		[1999DYK/SVO, 1929BAB/JAC]
$C_4H_2N_2S$	[1452-15-9]	4-cyanothiazole				
	SUB		73.9 ± 0.4	298	C	[1966MAN/SUN, 1970COX/PIL]
$C_4H_2O_3$	[108-31-6]	maleic anhydride				
	FUS	(90–350)	13.55	325.7	AC	[1983DEW/DEK]
	FUS		8.8		DTA	[1978VIL, 1983DEW/DEK]
	FUS		12.26	325.7		[1996DOM/HEA, 1978MAR/CIO]
	FUS		13.65	326.0	AC	[1957MAS]
	FUS		12.93	325.0		[1952SPE/TAM]
	SUB	(308–326)	85.4	317		[1987STE/MAL]
	SUB		68.8	258	TE, ME	[1983DEW/VAN]
	SUB		70.0	298		[1978VIL/PER]
	SUB	(308–325)	71.5 ± 5.0			[1949WIN/KUL, 1970COX/PIL]
	V	(336–475)	49.1	351	A	[1987STE/MAL]
	V	(326–350)	54.8			[1949WIN/KUL]
	V	(317–475)	56.7	332		[1947STU]
	V	(345–433)	46.2	389		[1923WEI/DOW]
$C_4H_2O_4$	[142-45-0]	butyndioic acid				
	SUB		NA			[1972LEB/KAT]
$C_4H_2O_4$	[2892-51-5]	3,4-dihydroxy-3-cyclobutene-1,2-dione				
	SUB	(469–499)	152.5	486	ME, TE	[1983DEW/VAN]
	SUB	(469–499)	154.3	298	ME, TE	[1983DEW/VAN]
	SUB		83.7 ± 16.7	298	E	[1971SEL2, 1977PED/RYL]
$C_4H_3BrF_7N$	[25237-12-1]	2-bromo-2-fluoro-*N*,*N*-bis(trifluoromethyl)ethylamine				
	V	(329–355)	30.9	342	A	[1987STE/MAL, 1969FRE/TIP2]
$C_4H_3BrN_2O_2$	[51-20-7]	5-bromouracil				
	SUB	(405–414)	148.1		ME	[2002SZT/KAM]
	SUB		151.4 ± 2.5	298	ME	[2002SZT/KAM, 2005ZIE/SZT]
	SUB		128.4		LE	[1974YAN/VER]
C_4H_3BrS	[1003-09-4]	2-bromothiophene				
	TRS		0.01	55.3		
	FUS		7.90	203.9	AC	[1996DOM/HEA, 1993FUJ/OGU2]
	V	(333–373)	27.9	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
C_4H_3BrS	[872-31-1]	3-bromothiophene				
	V	(333–373)	28.9	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
$C_4H_3ClF_6O_2S$	[57169-82-1]	chlorosulfurous acid, 2,2,2-trifluoro-1-methyl-1-(trifluoromethyl)ethyl ester				
	V		39.7			[1975DEM/KOV2]
$C_4H_3ClN_2$	[14508-49-7]	2-chloropyrazine				
	V		45.1 ± 1.5	298	C	[2004MOR/MIR]
$C_4H_3ClN_2$	[1722-12-9]	2-chloropyrimidine				
	SUB		70.1 ± 1.3	298	C	[2007RIB/AMA]
$C_4H_3ClN_2O_2$	[1820-81-1]	5-chlorouracil				
	SUB	(402–412)	145.5 ± 3.3	407	ME	[2002SZT/KAM]
	SUB		148.3 ± 2.4	298	ME	[2002SZT/KAM, 2005ZIE/SZT]
$C_4H_3ClN_2O_2$	[4270-27-3]	6-chlorouracil				
	SUB	(381–394)	134.3 ± 2.7	387	ME	[2002SZT/KAM]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		135.2 ± 2.0	298	ME	[2002SZT/KAM, 2005ZIE/SZT]
C_4H_3ClS	[96-43-5]	2-chlorothiophene				
	FUS	(13–300)	8.97	201.3	AC	[1993FUJ/OGU]
	V	(313–401)	34.7	328		[1999DYK/SVO]
	V	(320–401)	36.9	335		[1999DYK/SVO, 1981DIT/SKO]
	V	(333–374)	34.4	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
C_4H_3ClS	[17249-80-8]	3-chlorothiophene				
	FUS	(13–300)	9.39	214.2	AC	[2004FUJ/TOD]
$C_4H_3Cl_3OS$		2,3,3-trichloro-2-propenethioic acid, O-methyl ester				
	V	(383–423)	64.8		GC	[1980PIT/KIS]
$C_4H_3FN_2O_2$	[51-21-8]	5-fluorouracil				
	SUB	(411–433)	130.1 ± 1.2	422	ME	[2014AMA/SZT]
	SUB	(411–433)	132.5 ± 1.2	298	ME	[2014AMA/SZT]
	SUB	(394–405)	129.9 ± 1.5	399	ME	[2002SZT/KAM]
	SUB		133.2 ± 2.1	298	ME	[2002SZT/KAM, 2005ZIE/SZT]
	SUB	(421–483)	150 ± 2		TE	[2002BRU/POR]
$C_4H_3F_5OS$	[35709-11-6]	trifluoroacetic acid, S-(2,2-difluoroethyl) ester				
	V	(282–322)	39.3	297	A	[1987STE/MAL, 1999DYK/SVO, 1971WEE/GAR]
$C_4H_3F_5O_3$	[2195-84-8]	α– (trifluoromethoxy)-α,α-difluoromethyl acetate				
	FUS		8.51	167.4		[1996DOM/HEA, 1984GOL/KOL]
$C_4H_3F_6NO_2$	[22743-78-8]	*N,N*-bis(trifluoromethyl)acetamide-*N*-oxide				
	V	(268–336)	40.6	283	A	[1987STE/MAL, 1968NAS/BAB]
$C_4H_3F_6O_2P$	[2022-79-9]	bis(trifluoromethyl)acetoxyphosphine				
	V	(273–313)	41	288		[1964PET/BUR, 1984BOU/FRI]
$C_4H_3F_7O$	[375-01-9]	2,2,3,3,4,4,4-heptafluoro-1-butanol				
	V	(273–298)	43.6	286	A, MM	[1987STE/MAL, 1971DYK, 1967MEE/GOL]
$C_4H_3F_7O$	[171182-95-9]	1-(2,2-difluoroethoxy)-1,1,2,2,2-pentafluoroethane				
	V	(288–318)	31.5	303	I	[2002MUR/YAM]
$C_4H_3F_7O$	[406-78-0]	1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)ethane				
	V	(283–329)	34	298	I	[2002MUR/YAM]
$C_4H_3F_7O$	[1683-81-4]	1,1,2,2-tetrafluoro-3-(trifluoromethoxy)propane				
	V	(288–319)	31.3	303	I	[2002MUR/YAM]
$C_4H_3F_7O$	[28523-86-6]	1,1,1,3,3,3-hexafluoro-2-fluoromethoxypropane				
	V	(288–331)	34.1	303	I	[2002MUR/YAM]
$C_4H_3F_7O$	[56860-81-2]	3-(difluoromethoxy)-1,1,1,2,2-pentafluoropropane				
	V	(283–319)	31.2	298	I	[2002MUR/YAM]
$C_4H_3F_7O_2S$	[57169-83-2]	fluorosulfurous acid, 2,2,2-trifluoro-1-methyl-1-(trifluoromethyl)ethyl ester				
	V		36.4			[1975DEM/KOV2]
$C_4H_3IN_2O_2$	[696-07-1]	5-iodouracil				
	SUB	(403–414)	152.5 ± 2.9	409	ME	[2002SZT/KAM]
	SUB	(402–413)	153.5 ± 2.5	407	ME	[2002SZT/KAM]
C_4H_3IS	[3437-95-4]	2-iodothiophene				
	V	(333–374)	29.0	348	A, I	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
$C_4H_3NO_2S$	[609-40-5]	2-nitrothiophene				
	V	(378–443)	48.6	393		[1999DYK/SVO]
	V	(321–498)	50.4	336	A	[1987STE/MAL]
$C_4H_3NO_3$	[609-39-2]	2-nitrofuran				
	SUB		75.3 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
$C_4H_3N_3O_4$	[611-08-5]	5-nitrouracil				
	SUB	(431–453)	159.1 ± 2.1	442	ME	[2003ZIE/SZT]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(435–448)	157.6 ± 4.9	441	ME	[2003ZIE/SZT]
	SUB	(435–448)	161.4	298	ME	[2003ZIE/SZT]
C_4H_4	[689-97-4]	1-butene-3-yne				
	V	(180–278)	26.0	236	A	[1987STE/MAL, 1947STU]
$C_4H_4BrF_6N$	[1683-83-6]	2-bromo-*N,N*-bis(trifluoromethyl)ethylamine				
	V	(323–356)	31.0	338	A	[1987STE/MAL, 1965HAS/TIP]
$C_4H_4BrN_3O$	[2240-25-7]	5-bromocytosine				
	SUB	(403–468)	148.4 ± 1.5	435		[1975TEP/YAN]
$C_4H_4Cl_2$	[3574-40-1]	1,2-dichloro-1,3-butadiene				
	V	(260–308)	33.3	275	A	[1987STE/MAL]
$C_4H_4Cl_2$	[1653-19-6]	2,3-dichloro-1,3-butadiene				
	V	(299–368)	33.8	314	A	[1987STE/MAL, 1968CIH/VOJ2]
$C_4H_4Cl_2N_2$	[1192-53-6]	4,5-dichloro-1-methylimidazole				
	FUS		17.0	330.1	DSC	[2012ALM/MON]
	SUB	(288–326)	80.7 ± 0.1	328	Static	[2012ALM/MON]
	SUB	(288–326)	81.4 ± 0.1	298	Static	[2012ALM/MON]
	V	(330–350)	63.5 ± 0.3	328	Static	[2012ALM/MON]
	V	(330–350)	66.3 ± 0.3	298	Static	[2012ALM/MON]
$C_4H_4Cl_2O_2$	[543-20-4]	succinyl chloride				
	V	(312–466)	54.7	327	A	[1987STE/MAL, 1947STU]
$C_4H_4Cl_2O_3$	[541-88-8]	chloroacetic acid anhydride				
	V	(340–490)	61.8	355	A	[1987STE/MAL, 1947STU]
$C_4H_4Cl_4O_2S$	[3737-41-5]	3,3,4,4-tetrachlorotetrahydrothiophene-1,1-dioxide				
	SUB	(303–348)	88.6	318	A	[1987STE/MAL, 1999DYK/SVO]
[Note: The compound is a solid at this temperature.]						
	SUB	(303–348)	88.7	325	ME	[1978DEP]
$C_4H_4F_3NO_3$	[383-70-0]	*N*-(trifluoroacetyl)aminoacetic acid				
	SUB	(273–393)	98.8	288	A	[1987STE/MAL, 1960WEY/KLI]
$C_4H_4F_4OS$	[35709-10-5]	trifluorothioacetic acid, S-(2-fluoroethyl) ester				
	V	(282–322)	41.4	297	A	[1987STE/MAL, 1999DYK/SVO, 1971WEE/GAR]
$C_4H_4F_6N_2S$	[62067-10-1]	2,2,2-trifluoro-*N*-methyl-*N*′-[(trifluoromethyl)thio]ethanimidamide				
	V	(339–387)	34.9	354	A, I	[1987STE/MAL, 1977BUR/SHR2, 1999DYK/SVO]
$C_4H_4F_6O$	[35042-99-0]	3-difluoromethoxy-1,1,2,2-tetrafluoropropane				
	V	(283–349)	35.9	298	I	[2002MUR/YAM]
$C_4H_4F_6O$	[13171-18-1]	1,1,1,3,3,3-hexafluoro-2-methoxypropane				
	V	(283–324)	32.6	298	I	[2002MUR/YAM]
$C_4H_4F_6O$	[25449-61-0]	1,1,1-trifluoro-2-(1,1,2-trifluoroethoxy)ethane				
	V	(283–338)	35.4	298	I	[2002MUR/YAM]
$C_4H_4F_6O$	[333-36-8]	1,1,1-trifluoro-2-(2,2,2-trifluoroethoxy)ethane				
	V	(283–337)	35.0	298	I	[2002MUR/YAM]
$C_4H_4F_6O$	[50807-77-7]	1-(1,1-difluoroethoxy)-1,1,2,2-tetrafluoroethane				
	V	(288–352)	38.1	303	I	[2002MUR/YAM]
$C_4H_4F_6O$	[382-34-3]	1,1,1,2,3,3-hexafluoro-3-methoxypropane				
	V	(288–327)	32.4	303	I	[2002MUR/YAM]
$C_4H_4F_6O$	[160620-20-2]	1,1,2,2,3,3-hexafluoro-1-methoxypropane				
	V	(288–341)	34.5	303	I	[2002MUR/YAM]
$C_4H_4F_6O_2S$	[52225-48-6]	trifluoromethanesulfinic acid, 2,2,2-trifluoro-1-methylethyl ester				
	V		36.8	375	HG	[1974MAJ/SHR]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_4IN_3O$	[1122-44-7]	5-iodocytosine (4-amino-5-iodopyrimidinone)				
	SUB	(413–463)	144 ± 1.5	438		[1975TEP/YAN]
$C_4H_4N_2$	[290-37-9]	pyrazine				
	TRS		1.0	304.0		
	FUS		15.3	326.5	DSC	[2012VER/EME4]
	TRS	(5–380)	1.09	300.5		
	TRS	(5–380)	0.05	309.8		
	FUS	(5–380)	14.78	325.4	AC	[2003CHI/KNI]
	FUS		12.95	328.2		[1978BOU/LEC]
	SUB (I)	(274–300)	57.5 ± 0.4	298	GS	[2012VER/EME4]
	SUB (II)	(303–314)	56.4 ± 0.8	298	GS	[2012VER/EME4]
	SUB	(288–317)	56.2	303		[1995SAK/UEO]
	SUB		56.3 ± 0.5		C	[1962TJE, 1970COX/PIL]
	V	(342–373)	40.5 ± 1.7	298	CGC	[2009LIP/CHI2, 2009LIP/CHI]
	V	(354–426)	38.8 ± 0.1	340	EB	[2002STE/CHI3]
	V	(354–426)	36.5 ± 0.2	380	EB	[2002STE/CHI3]
	V	(354–426)	34.1 ± 0.4	420	EB	[2002STE/CHI3]
	V	(332–373)	37.9	352		[1995SAK/UEO]
$C_4H_4N_2$	[289-95-2]	pyrimidine				
	TRS		2.6	238.4		
	FUS		13.0	294.3	DSC	[2012VER/EME4]
	SUB	(275–292)	58.3 ± 0.6	298	GS	[2012VER/EME4]
	V	(293–328)	44.1 ± 0.4	298	GS	[2012VER/EME4]
	V	(342–373)	41.0 ± 1.9	298	CGC	[2009LIP/CHI2, 2009LIP/CHI]
	V		49.9 ± 0.6	298	C	[1977NAB/SAB]
	V		49.8 ± 0.3	298	C	[1962TJE]
$C_4H_4N_2$	[289-80-5]	pyridazine				
	V	(283–343)	54.6 ± 0.2	298	GS	[2012VER/EME4]
	V		53.1 ± 2.4	298	CGC	[2010LIP/PLI]
	V		53.5 ± 0.4	298	C	[1962TJE]
$C_4H_4N_2$	[110-61-2]	succinonitrile				
	FUS		3.7	329.7	DSC	[2009RAI/RED]
	TRS		6.09	233.6		
	FUS		3.75	330.3	DSC	[2007BAD/BLA]
	FUS		3.72	331.2	DSC	[2004STU/WIT]
	TRS		6.2	233.3		
	FUS	(5–350)	3.7	331.2	AC	[1996DOM/HEA, 1963WUL/WES]
	SUB	(279–298)	70.0 ± 0.3	289		[1960WOO/MUR, 1977PED/RYL, 1971RAP/WES, 1969STU/WES]
$C_4H_4N_2O$	[4562-27-0]	4(3*H*)-pyridmidinone				
	SUB		104.8 ± 0.8	298	ME	[2014GAL/ROC]
$C_4H_4N_2OS$	[141-90-2]	2-thiouracil				
	SUB	(421–443)	131.8 ± 1.1	432	ME	[2013RIB/AMA]
	SUB	(421–443)	138.5 ± 1.1	298	ME	[2013RIB/AMA]
	SUB		129.3		LE	[1974YAN/VER]
$C_4H_4N_2OS$	[591-28-6]	4-thiouracil				
	SUB		125.5		LE	[1974YAN/VER]
$C_4H_4N_2O_2$	[2423-84-9]	pyrazine 1,4-dioxide				
	SUB		116.9 ± 0.8	298	C	[1997ACR/POW]
$C_4H_4N_2O_2$	[66-22-8]	uracil				
	SUB	(424–493)	131.9 ± 0.5	298	GS	[2015EME/VER2]
	SUB	(424–493)	131.9 ± 0.7	298	GS	[2014ACH/EME]
	SUB	(315–435)	125.3 ± 0.2	425	QR, ME	[2006DEB/MED]
	SUB	(399–411)	101.3		ME	[2002SZT/KAM]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(394–494)	127.0 ± 2.0	439	TE	[2000BRU/PIA]
	SUB	(452–587)	130.6 ± 4.0	519	ME, TE	[1980BAR/BEN]
	SUB	(452–587)	131 ± 5	298	TE, GS	[1980BAR/BEN]
	SUB	(378–428)	120.5 ± 1.3	403	QR	[1980TEP/YAN]
	SUB		121.7	425	MS	[1979YAN/TEP]
	SUB	(500–545)	133.9 ± 8	523	HSA	[1978NOW/SZC]
	SUB		122.9	440	C	[1977NAB/SAB]
	SUB		125.9 ± 2.5	298	C	[1977NAB/SAB, 2015EME/VER2]
	SUB	(393–458)	120.5 ± 5.2	426	LE	[1975YAN/TEP, 1974YAN/VER]
	SUB		115.5 ± 2.1		ME	[1972ROM/SUK, 2000BRU/PIA]
	SUB		U 83.7			[1965CLA/PES]
$C_4H_4N_2O_2S$	[504-17-6]	thiobarbituric acid				
	TRS	(265–430)	0.7	458.9		
	TRS	(265–430)	0.2	483.8		
	TRS	(265–430)	0.3	503.1		
	FUS	(265–430)	14.8	516.4	DSC	[2012ROU/NOT]
[Note: Authors of [2012ROU/NOT] noted that an exothermic decomposition occurred immediately after fusion.]						
	SUB	(412–442)	118.3 ± 2.2	298	GS	[2012ROU/NOT2]
	SUB	(400–461)	110 ± 4.0	430	TE	[1999BRU/PIA]
$C_4H_4N_2O_3$	[67-52-7]	barbituric acid				
	TRS		1.3	513.2		
	FUS		20.33	526.2	DSC	[2009ZEN/GST]
	TRS		1.3	516		
	FUS		20.87	526.4	DSC	[2008ROU/TEM2]
	SUB	(410–501)	115.1 ± 0.7	298	GS	[2008ROU/TEM2]
	SUB	(294–438)	111.3 ± 0.3		GS	[1999ZIE/PER]
	SUB	(392–493)	113 ± 4.0	442	TE	[1999BRU/PIA]
	SUB	(404–479)	123.3 ± 1.7	440	ME	[1990SOL/KAB]
$C_4H_4N_2S_2$	[2001-93-6]	2,4-dithiouracil				
	SUB	(393–443)	119.7 ± 2.4	418		[1975TEP/YAN]
$C_4H_4ClN_3$	[5469-69-2]	6-chloro-3-aminopyridazine				
	FUS		36.3	493.9	DSC	[2013WAN]
$C_4H_4N_4O_2$	[5424-94-2]	*N*-nitro-bis(*N*,*N*-cyanomethyl) amine				
	FUS		38.66	367	DTA	[1987OYU/BRI]
$C_4H_4N_4O_7$	[57449-43-1]	furazandimethanol dinitrate				
	V	(399–433)	58.7	414	A	[1987STE/MAL, 1975PEP/MAT]
$C_4H_4N_4O_8$	[57449-44-2]	furazandimethanol dinitrate, 2-oxide				
	V	(413–453)	64.3	428	A	[1987STE/MAL, 1975PEP/MAT]
$C_4H_4N_6$	[1123-54-2]	8-azaadenine				
	SUB	(418–463)	128.4 ± 1.3	440		[1975TEP/YAN]
$C_4H_4N_8O_{13}$	[34882-73-0]	bis-(2,2,2-trinitroethyl)-*N*-nitrosoamine				
	SUB	(333–354)	97.9 ± 0.8	343	ME	[1973DEK/OON]
$C_4H_4N_8O_{14}$	[19836-28-3]	bis-(2,2,2-trinitroethyl)-*N*-nitroamine				
	SUB	(340–356)	117.6 ± 0.8	348	ME	[1973DEK/OON]
C_4H_4O	[110-00-9]	furan				
	TRS	(11–299)	2.05	150.0		
	FUS	(11–299)	3.8	187.6		[1996DOM/HEA, 1952GUT/SCO]
	SUB		NA			[1953MIL/PAO]
	V	(238–356)	30.2	253	A	[1987STE/MAL]
	V	(277–323)	28.2	298		[1970MOI/ANT]
	V	(275–334)	28.6	290		[1952GUT/SCO, 1984BOU/FRI]
	V		28.5	279	C	[1952GUT/SCO]
	V		27.7	293	C	[1952GUT/SCO]
	V		27.1	305	C	[1952GUT/SCO]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4H_4OS	[3354-32-3]	2-(5*H*)-thiophenone				
	V		56.0 ± 1.2	298	C	[2010RIB/SAN3]
$C_4H_4O_2$	[674-82-8]	diketene				
	V	(297–388)	42.9	312	A	[1987STE/MAL]
	V		42.9 ± 0.1	298	C	[1968MAN/NAK]
$C_4H_4O_2$	[33689-28-0]	cyclobutane-1,2-dione				
	SUB	(251–289)	69.1 ± 3.5	270	HSA	[UR/CHI]
	SUB	(295–335)	54.8	315		[1985CAO/BAC]
$C_4H_4O_2$	[15506-53-3]	cyclobutane-1,3-dione				
	SUB	(274–322)	73.6 ± 3.7	298	HSA	[1978CHI/SHE]
$C_4H_4O_2$	[497-23-4]	2-(5*H*)-furanone				
	V		55.6 ± 1.3	298	C	[2010RIB/SAN3]
$C_4H_4O_3$	[108-30-5]	succinic anhydride				
	SUB	(298–320)	80.5 ± 1.6	309	ME	[1990MEN/PIL]
	SUB		80.7 ± 1.6	298	C	[1990MEN/PIL]
	SUB	(290–311)	82.2	302	ME, TE	[1983DEW/VAN]
	V	(401–534)	57.3	416	A	[1987STE/MAL]
$C_4H_4O_4$	[110-16-7]	*cis*-butenedioic acid (maleic acid)				
	FUS		26.9	411.9	DSC	[2010GUO/SAD]
	SUB	(348–389)	105.4 ± 1.7	368	ME	[1974ARS]
	SUB	(357–367)	110 ± 2.5			[1938WOL/WEG, 1960JON, 1970COX/PIL]
	SUB	(356–371)	109 ± 4.2			[1934WOL/TRI]
$C_4H_4O_4$	[110-17-8]	*trans*-butenedioic acid (fumaric acid)				
	FUS		11.8	494.1	DSC	[2012BRU/MAI]
	SUB	(371–391)	123.6 ± 2.0	381	TE, ME	[1977DEK/VAN]
	SUB		136 ± 6.3	365	QF	[1938WOL/WEG, 1935TRI, 1960JON]
	SUB	(358–371)	134 ± 4.2			[1934WOL/TRI]
$C_4H_4O_4$	[4480-83-5]	diglycolic anhydride				
	FUS		17.3	371.3	DSC	[2011EME/STE]
	SUB	(319–356)	90.5 ± 0.6	298	GS	[2011EME/STE]
	SUB	(282–303)	84.2 ± 1.1	294	ME, TE	[1983DEW/VAN]
	V	(372–383)	74.5 ± 1.0	298	GS	[2011EME/STE]
$C_4H_4O_4$	[502-97-6]	1,4-dioxane-2,5-dione				
	TRS	(14–397)	1.81	312.1		
	FUS	(14–397)	14.8	356.2	AC	[1996DOM/HEA, 1988LEB/KUL]
	SUB	(326–352)	87.8 ± 1.6	298	GS	[2010EME/VER2]
	V	(376–513)	50.4	391	A	[1987STE/MAL, 1947STU]
$C_4H_4O_4$	[3524-70-7]	ethylene oxalate (1,4-dioxane-2,3-dione)				
	FUS	(8–450)	13.4	415	AC, DSC	[1996DOM/HEA, 1982LEB/KUL]
$C_4H_4O_5$	[328-42-7]	2-ketosuccinic acid				
	FUS		50.38	437	DSC	[2010BOO/BAR]
C_4H_4S	[110-02-1]	thiophene				
	TRS	(13–300)	0.81	170.7		
	FUS	(13–300)	5.04	235.0	AC	[1996DOM/HEA, 1985FIG/SZW]
	TRS		0.64	171.6		
	FUS		5.09	235.0		[1949WAD/KNO]
	TRS		1.21	171.1		
	FUS		4.97	233.7		[1996DOM/HEA, 1934JAC/PAR]
	SUB	(195–228)	46.8	213	A	[1987STE/MAL, 1956MIL]
	SUB	(192–213)	49	203	MG	[1944MIL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(275–365)	35.2	298		[2014KHE/MUT]
	V	(267–381)	35.8	282		[1999DYK/SVO]
	V	(333–373)	34.8	348	I	[1971EON/POM]
	V		34.6	298		[1971WIL/ZWO]
	V	(300–366)	34.1	315	EB	[1952WHI/BAR]
	V	(311–393)	33.7	326		[1949WAD/KNO]
	V		33.6 ± 0.1	319	C	[1949WAD/KNO]
	V		32.7 ± 0.1	336	C	[1949WAD/KNO]
	V		31.5 ± 0.1	357	C	[1949WAD/KNO]
	V	(344–363)	32.6	353		[1945FAW/RAS]
	V	(228–289)	35	270	MG	[1944MIL]
C_4H_5Cl	[126-99-8]	2-chloro-1,3-butadiene				
	V	(243–263)	29.6	253	A	[1987STE/MAL]
	V	(279–333)	29.6	294	A	[1987STE/MAL, 1971DYK]
	V	(293–333)	30.9	308		[1964GUB/FER, 1984BOU/FRI]
C_4H_5ClO	[920-46-7]	methacryloyl chloride				
	V	(313–372)	36.1	328	A	[1987STE/MAL]
$C_4H_5ClO_2$	[6214-28-4]	*Z*-3-chloro-2-butenoic acid				
	FUS		20.71	366.8		[1996DOM/HEA, 1928SKA/SAX]
$C_4H_5ClO_2$	[55831-56-6]	*E*-3-chloro-2-butenoic acid				
	FUS		13.81	333.7		[1996DOM/HEA, 1928SKA/SAX]
$C_4H_5ClO_3$	[4755-77-5]	ethyl chloroglyoxylate				
	V	(268–408)	44.9	283		[1947STU]
$C_4H_5Cl_3O_2$	[515-84-4]	ethyl trichloroacetate				
	V	(293–440)	49	308	A	[1987STE/MAL]
	V		51.0 ± 0.1	298	C	[1972LAY/WAD]
	V	(317–368)	47.5	332		[1959USA/DEM, 1984BOU/FRI]
$C_4H_5Cl_5$	[2431-52-9]	1,2,2,3,4-pentachlorobutane				
	V	(368–498)	62.6	383	A	[1987STE/MAL, 1968CIH/VOJ]
$C_4H_5F_2I$	[692-26-2]	1,1-difluoro-4-iodo-1-butene				
	V	(318–342)	40.6	330	A	[1987STE/MAL]
$C_4H_5F_3O$	[406-90-6]	vinyl 2,2,2-trifluoroethyl ether				
	V	(293–317)	32.0	305	A	[1987STE/MAL, 1978ROD/HIL]
$C_4H_5F_3OS$	[383-64-2]	trifluorothioacetic acid, S-ethyl ester				
	V	(273–313)	42.0	288	A	[1987STE/MAL, 1971WEE/GAR]
$C_4H_5F_3O_2$	[383-63-1]	trifluoroacetic acid, ethyl ester				
	V		34.6	335	Static	[2015HUA/JIA]
	V		34.7	335	HG	[1973MAJ/SHR]
$C_4H_5F_5$	[406-58-6]	1,1,1,3,3-pentafluorobutane				
	V	(303–358)	29.2	318		[2002MAR/OLI]
$C_4H_5F_5O$	[378-16-5]	1,1,1,2,2-pentafluoro-3-methoxypropane				
	V	(283–321)	31.6	298	I	[2002MUR/YAM]
$C_4H_5F_5O$	[69948-24-9]	1-(difluoromethoxy)-1,1,2-trifluoroethane				
	V	(283–316)	31.7	298	I	[2002MUR/YAM]
$C_4H_5F_6OP$	[1692-49-5]	ethyl bis(trifluoromethyl)phosphinite				
	V	(248–328)	33.2	288		[1959EME/SMI]
C_4H_5N	[109-75-1]	3-butenenitrile				
	V	(293–417)	40.3	308	A	[1987STE/MAL]
	V		40.0	298		[1969KON/PRO]
	V	(254–392)	41.6	268		[1947STU]
C_4H_5N	[627-26-9]	(*E*)-2-butenenitrile				
	V		40.0	298		[1969KON/PRO]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4H_5N	[1190-76-7]	(*Z*)-2-butenenitrile				
	V		38.9	298		[1969KON/PRO]
C_4H_5N	[1190-76-7]	*cis*-crotonitrile				
	V	(297–405)	37.1	312	A	[1987STE/MAL]
	V	(244–381)	39.0	259		[1947STU]
C_4H_5N	[627-26-9]	*trans*-crotonitrile				
	V	(292–420)	39.7	307	A	[1987STE/MAL]
	V	(254–395)	40.5	268		[1947STU]
C_4H_5N	[126-98-7]	methacrylonitrile				
	V	(273–373)	36.5	288	A	[1987STE/MAL]
	V	(229–363)	35.4	243		[1947STU]
C_4H_5N	[5500-21-0]	cyclopropylcyanide				
	V		41.9 ± 0.1	298	C	[1982FUC/HAL]
	V	(310–391)	39.4	325	BG	[1971HAL/BAL]
	V	(310–391)	39.8 ± 0.4	298	BG	[1971HAL/BAL]
C_4H_5N	[109-97-7]	pyrrole				
	FUS	(12–360)	7.91	249.7		[1996DOM/HEA, 1967SCO/BER]
	SUB		NA			[1941MIL]
	V	(285–329)	42.5	300		[1992KIM/SZY]
	V	(313–373)	41.9	328	I	[1971EON/POM]
	V	(338–440)	42.5	353	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU, 1967SCO/BER]
	V		45.2	298		[1967SCO/BER]
	V		41.4	362	C	[1967SCO/BER]
	V		40.2	381	C	[1967SCO/BER]
	V		38.7	403	C	[1967SCO/BER]
	V		41.8			[1961ZIM/GEI]
	V	(333–373)	41.9	348		[1947STU]
C_4DH_4N	[10162-82-0]	*N*-deuteropyrrole				
	V	(285–329)	42.9	300		[1992KIM/SZY]
C_4H_5NO	[30842-90-1]	3-methylisoxazole				
	V		39.8 ± 0.2	298	C	[1978HAM/BEN]
C_4H_5NO	[5765-44-6]	5-methylisoxazole				
	V		39.7 ± 0.2	298	C	[1978HAM/BEN]
$C_4H_5NO_2$	[105-34-0]	methyl cyanoacetate				
	V	(292–322)	66.2 ± 0.9	298	GS	[1995VER/BEC]
	V	(385–573)	54.9	400	A	[1987STE/MAL, 1971DYK]
$C_4H_5NO_2$	[123-56-8]	2,5-pyrrolidinedione (succinimide)				
	FUS		15.2	401.9	DSC	[2012WAN/HU]
	FUS		17.0	400		[1996DOM/HEA, 1989STE/CHI2]
	SUB	(317–340)	83.1 ± 1.5	329	ME	[1990MEN/PIL]
	SUB	(317–340)	83.6 ± 1.5	298	ME	[1990MEN/PIL]
	SUB		88.0		B	[1989STE/CHI2]
	V	(416–561)	66.9	431	A	[1987STE/MAL]
	V	(388–560)	73.5	403		[1947STU]
C_4H_5NS	[57-06-7]	allyl isothiocyanate				
	V	(277–323)	47.6		GC	[1997LIM/TUN]
	V	(370–430)	56.8	385	A	[1987STE/MAL]
	V	(283–323)	42.1	298		[1935BAU/BUR, 1984BOU/FRI, 1999DYK/SVO]
C_4H_5NS	[3581-87-1]	2-methylthiazole				
	FUS		12.16	248.6		[1968GOU/WES, 1969SOU/GOU]
	V	(353–402)	39.4	368	A	[1987STE/MAL, 1999DYK/SVO]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(342–404)	40.0	357	A	[1987STE/MAL, 1969SOU/GOU]
C_4H_5NS	[693-95-8]	4-methylthiazole				
	FUS		8.9	229.1		[1966MEY/MET]
	V	(346–408)	40.8	361	A, EB	[1987STE/MAL, 1975SOU/BAR]
	V		43.8 ± 0.2	298	C	[1966MAN/SUN]
C_4H_5NS	[3581-89-3]	5-methylthiazole				
	FUS		7.65	232.8		[1966MEY/MET]
$C_4H_5N_3O$	[71-30-7]	cytosine				
	SUB	(398–445)	155.3 ± 1.1	421	QCM	[2015EME/ZAI2]
	SUB	(398–445)	157.8 ± 1.8	298	QCM	[2015EME/ZAI2]
	SUB	(493–533)	153.7 ± 0.9	513	GS	[2015EME/ZAI2]
	SUB	(493–533)	158.1 ± 1.7	298	GS	[2015EME/ZAI2]
	SUB	(320–410)	167.7 ± 0.5	365	QR, ME	[2006DEB/MED]
	SUB	(505–525)	151.7 ± 0.7		GS	[1998ZIE/WSZ]
	SUB	(423–483)	147.2 ± 2.6	453	ME	[1984BUR/MOR]
	SUB		155.0 ± 3.0	298		[1984BUR/MOR]
	SUB		167 ± 10	298	TE	[1980FER/BEN]
	SUB	(450–470)	176 ± 10	298	C	[1980SAB]
	SUB		NA			[1977SAB/NAB]
	SUB		150.6		ME	[1974YAN/VER, 1975YAN/TEP]
$C_4H_5N_3OS$	[615-76-9]	6-aza-2-thiothymine				
	SUB	427	120.1 ± 2.8	298	ME	[2016AMA/SZT]
$C_4H_5N_3O_2$	[932-52-5]	5-aminouracil				
	SUB	(433–453)	135.6 ± 1.7	443	ME	[2003ZIE/SZT]
	SUB	(433–446)	135.3 ± 4.6	440	ME	[2003ZIE/SZT]
	SUB		138.1	298	ME	[2003ZIE/SZT]
	SUB		145.6		LE	[1974YAN/VER]
$C_4H_5N_3O_2$	[873-83-6]	6-aminouracil				
	SUB	(479–493)	147.6 ± 4.0	486	ME	[2003ZIE/SZT]
	SUB	(479–491)	146.5 ± 4.5	485	ME	[2003ZIE/SZT]
	SUB		150.4	298	ME	[2003ZIE/SZT]
$C_4H_5N_3O_2$	[932-53-6]	6-azathymine				
	SUB	427	109.1 ± 2.3	298	C	[2016AMA/SZT]
	SUB	(358–403)	112.5 ± 2.3	380		[1974MAN3]
$C_4H_5N_3S$	[333-49-3]	2-thiocytosine				
	SUB	(408–458)	158 ± 1.6	433		[1975TEP/YAN]
$C_4H_5N_7O_{12}$	[34880-53-0]	2,2,2-trinitro-*N*-(2,2,2-trinitroethyl)ethanamine				
	SUB	(338–349)	80.8 ± 0.4		ME, A	[1973DEK/OON, 1977PED/RYL, 1987STE/MAL]
C_4H_6	[590-19-2]	1,2-butadiene				
	FUS		6.95	136.9		[1996DOM/HEA, 1947AST/SZA]
	V	(243–291)	25.3	276	A	[1987STE/MAL]
	V	(204–243)	26.4	228	A	[1987STE/MAL]
	V		23.9	298		[1971WIL/ZWO]
	V	(184–291)	25.2	276		[1947STU]
	V		24.6 ± 0.1	273	C	[1947AST/SZA]
C_4H_6	[106-99-0]	1,3-butadiene				
	FUS		7.82	164.2	AC	[1947AST/FIN]
	FUS		7.98	164.2	AC	[1991ACR, 1945SCO/MEY]
	FUS		7.98	164.3		[1943WOO/HIG]
	V	(270–318)	23.0	285	A	[1987STE/MAL]
	V	(193–213)	25.7	203	A	[1987STE/MAL]
	V	(213–276)	23.6	261	A	[1987STE/MAL]
	V	(315–382)	22.4	330	A	[1987STE/MAL]
	V	(380–425)	22.9	395	A	[1987STE/MAL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		21.1	298		[1971WIL/ZWO]
	V		23.5	247	C	[1945SCO/MEY]
	V		22.5	268	C	[1945SCO/MEY]
	V		21.0	295	C	[1945SCO/MEY]
	V	(193–313)	26.3	253		[1943WOO/HIG]
	V	(198–271)	23.7	256		[1984BOU/FRI, 1933HEI2]
	V	(191–249)	24.7	235		[1932VAU, 1984BOU/FRI]
C_4H_6	[107-00-6]	1-butyne				
	FUS		6.03	147.4		[1996DOM/HEA, 1950AST/MAS]
	V	(205–289)	26.0	274	A	[1987STE/MAL]
	V		23.7	298		[1971WIL/ZWO]
	V		25.8 ± 0.1	263	C	[1950AST/MAS]
	V		24.5 ± 0.1	281	C	[1950AST/MAS]
C_4H_6	[503-17-3]	2-butyne				
	FUS		9.23	240.9		[1991ACR, 1983WEA, 1941YOS/OSB]
	SUB	(200–239)	37.4	220	A	[1947STU]
	V	(240–308)	29.0	255	A	[1987STE/MAL]
	V		26.7	298		[1971WIL/ZWO]
	V		26.9 ± 0.1	291	C	[1941YOS/OSB]
C_4H_6	[822-35-5]	cyclobutene				
	V	(206–275)	24.7	260	A	[1987STE/MAL]
	V	(196–275)	24.6	260		[1941HEI, 1984BOU/FRI]
$C_4H_6ClFO_2$	[1537-62-8]	2-chloroethyl fluoroacetate				
	V	(273–333)	56.4	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1971DYK]
$C_4H_6ClF_3O$	[310-71-4]	2-chloro-1,1,2-trifluoroethyl ethyl ether				
	V		37.5 ± 0.1	298	C	[1984UCH/MAJ]
	V		36.5 ± 0.1	313	C	[1984UCH/MAJ]
	V		35.3 ± 0.1	328	C	[1984UCH/MAJ]
	V		34.2 ± 0.1	343	C	[1984UCH/MAJ]
	V		32.9 ± 0.1	358	C	[1984UCH/MAJ]
$C_4H_6Cl_2$	[760-23-6]	3,4-dichloro-1-butene				
	V	(320–396)	38.0	335	A	[1987STE/MAL]
$C_4H_6Cl_2$	[7415-31-8]	*trans*-1,3-dichloro-2-butene				
	V	(306–401)	39.3	321	A	[1987STE/MAL, 1969CIH/VOJ]
$C_4H_6Cl_2$	[110-57-6]	*trans*-1,4-dichloro-2-butene				
	V	(340–379)	45.6	355	A	[1987STE/MAL]
$C_4H_6Cl_2O_2$	[3848-12-2]	2-chloroethyl chloroacetate				
	V	(319–478)	53.3	334	A	[1987STE/MAL, 1947STU]
$C_4H_6Cl_2O_2$	[535-15-9]	ethyl dichloroacetate				
	V		50.6 ± 0.1	298	C	[1972LAY/WAD]
	V	(283–430)	46.2	298	A	[1987STE/MAL, 1947STU]
$C_4H_6Cl_4$	[13138-51-7]	1,2,3,3-tetrachlorobutane				
	V	(349–464)	54.2	364	A	[1987STE/MAL, 1968CIH/VOJ]
C_4H_6FN	[407-83-0]	4-fluorobutyronitrile				
	V	(273–333)	45.2	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1971DYK]
$C_4H_6F_2O_2$	[459-99-4]	2-fluoroethyl fluoroacetate				
	V	(273–333)	55.1	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1971DYK]
$C_4H_6F_3I$	[540-87-4]	1,1,1-trifluoro-3-iodobutane				
	V	(304–321)	32.4	312	A	[1987STE/MAL, 1970HAS/KEE]
$C_4H_6F_3I$	[26653-47-4]	1,1,1-trifluoro-3-iodo-2-methylpropane				
	V	(298–368)	30.4	313	A	[1987STE/MAL, 1970HAS/KEE]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_6F_3NO_3$	[72316-38-2]	carbamic acid, methoxy(trifluoromethyl)-, methyl ester				
	V		39			[1979SEK/DES]
$C_4H_6F_4O$	[512-51-6]	1-ethoxy-1,1,2,2-tetrafluoroethane				
	V	(283–330)	33	298	I	[2002MUR/YAM]
$C_4H_6F_4O$	[60598-17-6]	1,1,2,2-tetrafluoro-3-methoxypropane				
	V	(293–347)	35.2	308	I	[2002MUR/YAM]
$C_4H_6F_4O_2$	[73287-23-7]	1,2-dimethoxytetrafluoroethane				
	FUS		10.75	252	DSC	[2005MAR/AVA]
	V	(270–356)	33.7			[2005MAR/AVA]
$C_4H_6F_6N_2O$	[30295-33-1]	1,1-dimethyl-2,2-bis(trifluoromethyl)hydrazine-2-oxide				
	V	(287–356)	36.4	302	A	[1987STE/MAL, 1970ELN/EME]
$C_4H_6F_6P_2S$	[26348-88-9]	methyl(trifluoromethyl)phosphinothious acid, anhydrosulfide				
	V	(316–342)	46.7	329		[1970BUR/KAN]
$C_4H_6N_2$	[616-47-7]	1-methylimidazole				
	FUS		12.3	268.6	DSC	[2012ALM/MON]
	FUS		12.11	272.2	DSC	[2011VER/ZAI]
	SUB	(256–265)	67.5 ± 0.5	269	Static	[2012ALM/MON]
	SUB	(256–265)	66.9 ± 0.5	298	Static	[2012ALM/MON]
	V	(257–305)	53.8 ± 0.2	269	Static	[2012ALM/MON]
	V	(257–305)	52.0 ± 0.2	298	Static	[2012ALM/MON]
	V		55.6 ± 0.6	298	C	[2011VER/ZAI]
	V		55.2 ± 0.5	298	GS	[2011VER/ZAI]
	V		54.6 ± 1.9	298	CGC	[2010LIP/PLI]
	V		47.2 ± 0.1	298	C	[2002KOS/MIR, 2011VER/ZAI]
	V		64.7 ± 1.3	298	C	[1999MO/YAN]
	V		54.5 ± 0.5	298	C	[1989CAT/CAB]
$C_4H_6N_2$	[693-98-1]	2-methylimidazole				
	FUS		12.67	419	DSC	[2002DOM/KOZ2]
	SUB	(301–318)	88.2 ± 0.7	309	ME	[1992JIM/ROU]
	SUB	(301–318)	88.4 ± 0.7	298	ME	[1992JIM/ROU]
$C_4H_6N_2$	[930-36-9]	1-methylpyrazole				
	FUS		11.4	229.2	DSC	[2014ALM/MON2]
	V	(254–293)	48.0 ± 0.2	298	Static	[2014ALM/MON2]
	V		48.0 ± 2.3	298	CGC	[2010LIP/PLI]
	V		48.0 ± 1.3	298	C	[1999MO/YAN]
$C_4H_6N_2$	[1453-58-3]	3-methylpyrazole				
	V		65.9 ± 2.0	298	C	[2008RIB/FIG]
$C_4H_6N_2O$	[1072-67-9]	3-amino-5-methylisoxazole				
	SUB		81.6 ± 2.5			[1973HAM/AYE, 1977PED/RYL]
$C_4H_6N_2O$	[4975-21-7]	dimethylfurazan				
	V	(353–427)	51.1	368	A	[1987STE/MAL, 1971MAT/PEP]
$C_4H_6N_2O$	[4344-87-0]	3-methyl-3-pyrazoline-5-one				
	SUB	(348–370)	108.4 ± 0.6	359	ME	[2012RIB/CAB]
	SUB	(348–370)	111.4 ± 0.6	298	ME	[2012RIB/CAB]
$C_4H_6N_2O$	[13315-23-6]	4-methyl-2-pyrazoline-5-one				
	SUB	(346–368)	108.8 ± 1.1	357	ME	[2012RIB/CAB]
	SUB	(346–368)	111.8 ± 1.1	298	ME	[2012RIB/CAB]
$C_4H_6N_2O_2$	[106-57-0]	2,5-piperazinedione				
	SUB	(419–441)	130.3 ± 1.1	430	ME	[2013SAN/AMA]
	SUB	(419–441)	134.0 ± 1.1	298	ME	[2013SAN/AMA]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(413–450)	103.8	428	A	[1987STE/MAL]
$C_4H_6N_2O_2$	[2518-42-5]	dimethylfurazan-2-oxide				
	V	(353–493)	57.0	368	A	[1987STE/MAL, 1971MAT/PEP]
$C_4H_6N_2O_2$	[504-07-4]	5,6-dihydrouracil				
	SUB		114.4 ± 1.6	298	C	[2013GAL/ROC]
	SUB	(377–405)	114.2 ± 0.9	391	ME	[2013GAL/ROC]
	SUB	(377–405)	116.0 ± 1.2	298	ME	[2013GAL/ROC]
$C_4H_6N_2O_2$	[616-04-6]	1-methylhydantoin				
	FUS		21.5	428.9	DSC	[2014NOG/ILD]
$C_4H_6N_4$	[156-81-0]	2,4-diaminopyrimidine				
	SUB		105.4 ± 0.7	347	ME	[2012RIB/GAL]
	SUB		106.3 ± 0.8	298	ME	[2012RIB/GAL]
$C_4H_6N_4O$	[56-06-4]	2,4-diamino-6-hydroxypyrimidine				
	SUB	(423–471)	147.6 ± 0.2		GS	[1999ZIE/PER]
$C_4H_6N_4O_2$	[107945-67-5]	1-ethyl-4-nitro-1*H*-1,2,3-triazole				
	TRS		2.13	223.6 and 259.7		
	FUS		16.40	349.0	AC	[2013BLO/KOH]
[Note: Authors of [2013BLO/KOH] report that the peaks for the two phase transitions at 223.6 K and 259.7 K overlapped and could not be resolved. The value of 2.13 kJ/mole represents the sum of the two transition enthalpies.]						
	SUB	(313–343)	93.5 ± 0.8	328	ME	[2013BLO/KOH]
$C_4H_6N_4O_3S_2$	[59-66-5]	2-acetamido-1,3,4-thiadiazole-5-sulfonamide				
	TRS		1.2	506.2		
	FUS		28.6	532.2	DSC	[2009BAR/GAM]
$C_4H_6N_4O_6$	[14760-99-7]	2,5-dinitro-2,5-diazahexane-3,4-dione				
	FUS		23.4	397.1	DSC	[1997ZEM]
$C_4H_6N_4O_8$	[3759-60-2]	1,1,3,3-tetranitrobutane				
	SUB		97.1 ± 1.2	298	C	[2011MIR/KON]
	SUB		87.9 ± 0.8	298		[1999MIR/VOR]
$C_4H_6N_4O_8$	[20919-97-5]	2,2,3,3-tetranitrobutane				
	SUB		79.5 ± 0.8	298	C	[2011MIR/KON]
	SUB		78.2 ± 0.8	298		[1999MIR/VOR]
$C_4H_6N_4O_8$	[20919-96-4]	1,1,1,4-tetranitrobutane				
	SUB		102.5 ± 1.6	298	C	[2011MIR/KON]
	SUB		99.6	298		[1999MIR/VOR]
$C_4H_6N_4O_8$	[42216-58-0]	1,1,1,3-tetranitro-2-methylpropane				
	SUB		91.2	298		[1999MIR/VOR]
	V	(304–327)	75.7	316	A	[1987STE/MAL]
$C_4H_6N_4O_{10}$	[99171-29-6]	4-nitroso-1,2,3-butanetriol trinitrate				
	V	(313–353)	72.9	333		[1959VAC/STA]
$C_4H_6N_4O_{11}$	[20820-44-4]	2-nitro-2-hydroxymethyl-1,3-propanedioltrinitrate				
	V	(313–353)	72.9	328	A	[1987STE/MAL]
$C_4H_6N_6O_8$	[81360-42-1]	1,3,5,5-tetranitro-1,3-diazacyclohexane				
	FUS		29.37	430	DTA	[1987OYU/BRI, 1995SKA/GOL]
C_4H_6O	[123-73-9]	*trans*-crotonaldehyde				
	V	(314–411)	36.6 ± 0.1	320	EB	[2002STE/CHI2]
	V	(314–411)	34.5 ± 0.2	360	EB	[2002STE/CHI2]
	V	(314–411)	32.1 ± 0.5	400	EB	[2002STE/CHI2]
C_4H_6O	[4170-30-3]	crotonaldehyde				
	V		37.3 ± 0.4	298	C	[1996VAN/YU]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		38.8	325	EB	[1994WIB/MOR]
	V	(288–376)	35.1 ± 0.5	332	Static	[1988BAG/GUR]
	V	(304–377)	37.3	319		[1979MAR/SAC]
	V	(306–376)	36.8	321	A	[1987STE/MAL, 1973WAR/SKU, 1984BOU/FRI]
C_4H_6O	[1191-95-3]	cyclobutanone				
	FUS		10.8	220.5	DSC	[1998GON/SZW]
	V	(301–344)	37.7	322	EB	[1994WIB/MOR]
	V	(283–313)	38.4	298	A	[1987STE/MAL, 1972WOL]
	V	(317–380)	36.3	332	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(283–313)	38.2 ± 0.4	298	VP	[1972WOL]
	V	(249–298)	38.5	273		[1942BEN/KIS, 1984BOU/FRI]
C_4H_6O	[109-93-3]	divinyl ether				
	V	(253–323)	29.2	268	A	[1987STE/MAL]
	V	(253–323)	26.1	301	I	[1933MIL/MEN]
C_4H_6O	[78-94-4]	methyl vinyl ketone				
	V	(279–355)	32.9	294	A	[1987STE/MAL]
	V	(300–355)	33.6	315	A	[1987STE/MAL]
C_4H_6O	[1191-99-7]	2,3-dihydrofuran				
	V	(302–360)	30.8 ± 0.1	300	EB	[2002STE/CHI5]
	V	(302–360)	28.6 ± 0.3	340	EB	[2002STE/CHI5]
C_4H_6O	[927-74-2]	3-butyn-1-ol				
	V	(343–393)	51.7 ± 0.9	298	CGC	[2005VAL/QUI]
C_4H_6OS	[1115-15-7]	divinyl sulfoxide				
	V		51.2 ± 0.9	298	C	[1989VOR/KLY]
$C_4H_6O_2$	[1759-53-1]	cyclopropane carboxylic acid				
	V	(357–473)	58.9 ± 0.3	340	EB	[2002STE/CHI5]
	V	(357–473)	55.7 ± 0.2	380	EB	[2002STE/CHI5]
	V	(357–473)	52.4 ± 0.2	420	EB	[2002STE/CHI5]
	V	(357–473)	48.8 ± 0.4	460	EB	[2002STE/CHI5]
$C_4H_6O_2$	[431-03-8]	2,3-butanedione (biacetyl)				
	V	(273–348)	38.5	288	A, I	[1987STE/MAL, 1972NEE/HAL]
	V	(273–293)	39.6 ± 0.2	283		[1954NIC/SZA]
$C_4H_6O_2$	[503-64-0]	*cis*-2-butenoic acid				
	V	(306–445)	55.8	321	A	[1987STE/MAL, 1947STU]
$C_4H_6O_2$	[107-93-7]	*trans*-2-butenoic acid				
	V	(353–458)	56.7	368	A	[1987STE/MAL, 1947STU]
$C_4H_6O_2$	[110-65-6]	2-butyne-1,4-diol				
	V		81.5 ± 0.3	298	CGC	[2006UMN/KWE]
	V	(418–520)	69.0	433	A	[1987STE/MAL, 1966GAN/SEM, 1971DYK]
$C_4H_6O_2$	[96-48-0]	γ-butyrolactone				
	FUS	(14–328)	9.57	229.8	AC	[1991ACR, 1983LEB/YEV]
	V	(377–477)	48.5	392		[2011MAT/KIM]
	V	(293–333)	47.6 ± 4.0	298		[1997KLE, 2008EME/KOZ]
	V	(378–406)	49.5 ± 0.1	392	EB	[1991WIB/WAL]
	V	(378–406)	55.2 ± 1.3	298	EB	[1991WIB/WAL]
	V	(345–370)	51.8 ± 0.6	357	MM	[1991WIB/WAL]
	V	(345–370)	55.6 ± 1.4	298	MM	[1991WIB/WAL]
	V	(392–555)	48.9 ± 0.3	298		[1990RAM/KUD, 2008EME/KOZ]
	V		54.4 ± 0.4	298	C	[1990LEI/PIL2]
	V	(361–522)	54.9 ± 0.2	298	EB	[1989STE/CHI2, 2008EME/KOZ]
	V	(357–435)	51.5	298	EB	[1988ISM/GAB, 2008EME/KOZ]
	V	(392–474)	48.2	407	A	[1987STE/MAL, 1950MCK/COP, 1981YAR/KAL]
	V	(273–478)	54.6 ± 0.2	298	GS	[1980JAR/AFA, 2008EME/KOZ]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(413–478)	53.1 ± 0.2	298	EB	[1980JAR/AFA, 2008EME/KOZ]
	V		48.0 ± 0.4	298	EB	[1980YEV/LEB, 2008EME/KOZ]
$C_4H_6O_2$	[79-41-4]	2-methyl-2-propenoic acid				
	V		47.5 ± 0.4	298	C	[1996VAN/YU]
	V	(321–435)	53.9	336	A	[1987STE/MAL]
	V	(298–434)	51.6	313	A	[1987STE/MAL, 1947STU]
$C_4H_6O_2$	[96-33-3]	methyl acrylate				
	FUS		9.73	197.5	AC	[1996DOM/HEA, 1985KAR/ABD]
	V	(278–348)	35.8	298		[2013LOM/GIN]
	V	(316–354)	34.2	331	A	[1987STE/MAL]
	V	(299–337)	28.8	314	BG	[1971HAL/BAL]
	V	(229–353)	38	244		[1947STU]
$C_4H_6O_2$	[108-05-4]	vinyl acetate				
	FUS	(13–330)	8.46	180.6	AC	[1997KUL/LEB, 1998LEB/KUL]
	V	(294–346)	34.4	309	A, EB	[1987STE/MAL, 1971DYK, 1963CAP/FRI, 1984BOU/FRI]
	V	(340–355)	31.4	348		[1965SWA/VAN]
	V	(273–345)	34.4	309		[1933MAR/CUT]
$C_4H_6O_2$	[79-41-4]	α-methylacrylic acid				
	FUS		8.06	287.5	AC	[1996DOM/HEA, 1985KAR/ABD]
$C_4H_6O_2$	[503-64-0]	*cis*-crotonic acid				
	FUS		12.57	344.4		[1991ACR, 1983WEA]
$C_4H_6O_2S$	[3232-39-1]	diacetyl sulfide				
	V	(325–355)	54.2	340		[1999DYK/SVO]
	V	(325–355)	50.9	340	A	[1987STE/MAL]
$C_4H_6O_2S$	[77-77-0]	divinyl sulfone				
	V		56.4 ± 0.9	298	C	[1989VOR/KLY]
	V		56.5 ± 0.8	298		[1969MAC/MCN]
$C_4H_6O_3$	[108-24-7]	acetic anhydride				
	V	(349–429)	43.3	364	EB	[1987AMB/GHI]
	V	(413–526)	47.6	428	A	[1987STE/MAL]
	V	(320–413)	45.5	335	A	[1987STE/MAL, 1971DYK]
	V	(336–412)	44.2	351		[1959MCD/SHR]
$C_4H_6O_3$	[108-32-7]	propylene carbonate				
	FUS		8.96	220.3	DSC	[2004DIN]
	FUS	(13–300)	8.01	218.7	AC	[1994FUJ/OGU]
	FUS		9.62	218.2		[1974VAS/KOR]
	V	(408–486)	54.1	423		[2011MAT/KIM]
	V	(298–345)	61.5 ± 0.3	298	GS	[2008VER/TOK]
	V	(294–473)	71.3	298		[2005NAS/NEU]
	V	(460–513)	61.3 ± 0.1	298	E	[2004CHE/CLE, 2008VER/TOK]
	V	(668–762)	71.2 ± 0.6	298		[2002WIL/VON, 2008VER/TOK]
	V	(412–466)	54.4	427	A	[1987STE/MAL]
	V	(368–462)	57.8	383	EB	[1982HON/WAK]
	V	(368–462)	55.2	423	EB	[1982HON/WAK]
	V	(368–462)	53.0	443	EB	[1982HON/WAK]
	V	(293–353)	55.2	323		[1972GRA/SAL]
	V	(323–370)	33.8	338	A, MM	[1987STE/MAL, 1971CHO/JON]
$C_4H_6O_3$	[3041-16-5]	*p*-dioxanone				
	FUS	(5–450)	16.14	301.7	AC, DSC	[1995LEB/BYK]
$C_4H_6O_4$	[553-90-2]	dimethyl oxalate				
	FUS		21.3		DSC	[1996CHI/SAB]
	FUS		21.07	327.6		[1991ACR, 1983WEA]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		74.6 ± 0.7	298	C	[1996CHI/SAB]
	SUB	(268–298)	75.6 ± 1.6	283	HSA	[1996CHI/SAB]
	SUB		75.3 ± 1.6	298		[1996CHI/SAB]
	SUB		74.9 ± 0.6		B	[1996CHI/SAB]
	SUB	(289–306)	U47.4 ± 0.5	298	BG	[1976ANT/CAR2, 1975ANT/CAR]
	V	(330–365)	54.7 ± 0.3	298	GS	[2006VER/KOZ]
	V	(328–443)	52.5	298		[2004MA/LIU, 2006VER/KOZ]
	V	(347–485)	44.7	416	HG, EB	[1988ASK/DAU]
	V	(293–437)	48.8	308	A	[1987STE/MAL, 1947STU]
$C_4H_6O_4$	[110-15-6]	succinic acid				
	FUS		U15.82		DSC	[2014HAS/JIR]
	FUS		27.4	460.1	DSC	[2013PAL/MCC]
	FUS		31.26	458	DSC	[2010BOO/BAR]
	FUS		34.0	455.2	DSC	[2005ROU/TEM]
	FUS		32.95	457	DSC	[1991ACR, 1974CIN/BER]
	SUB		93 ± 6		ME, MS	[2009BOO/MAR]
	SUB	(318–358)	128 ± 2		TPD	[2007CAP/LOV]
	SUB	(280–302)	119.5		TPTD	[2005CHA/ZIE]
	SUB	(360–375)	123.2 ± 2.6	298	ME	[2001RIB/MON2]
	SUB	(356–376)	120.5	368	TE, ME	[1983DEW/VAN]
	SUB		123.1	298		[1983DEW/VAN]
	SUB	(372–401)	118.1 ± 3.3	386	ME	[1970COX/PIL, 1960DAV/THO]
	SUB		120.3 ± 4.4	298		[1970COX/PIL, 1960DAV/THO]
	SUB		121.8 ± 3.3	298		[1960DAV/THO, 1999RIB/MON]
	SUB	(292–320)	73.6	306	A	[1947GRA]
	V	(424–503)	94.4	298	CGC	[2005ROU/TEM]
$C_4H_6O_4$	[516-05-2]	2-methylmalonic acid				
	FUS		30.73	403	DSC	[2010BOO/BAR]
	SUB	(341–355)	117.4 ± 1.9	298	ME	[2000RIB/MON]
	SUB		113.2 ± 0.4		C	[1983ALT/PIL]
$C_4H_6O_4$	[629-15-2]	ethylene glycol dimethanoate				
	V	(303–325)	50.3 ± 1.4		GS	[2011MAS/KRA]
$C_4H_6O_4$	[931-40-8]	4-(hydroxmethyl)-1,3-dioxolan-2-one				
	V	(330–398)	85.4 ± 0.4	298	GS	[2008VER/TOK]
	V	(430–455)	87.8 ± 0.4	298	EB	[2002WIL/VON, 2008VER/TOK]
$C_4H_6O_5$	[6915-15-7]	(*dl*)-malic acid I				
	FUS		29.03	403	DSC	[2010BOO/BAR]
	FUS (I)		33.52	402		[1996DOM/HEA, 1990CEO/SZW]
	FUS (II)		30.17	396		[1996DOM/HEA, 1990CEO/SZW]
$C_4H_6O_5$	[636-61-3]	(*d*)-malic acid				
	FUS		23.01	376	DSC	[1976LEC/COL]
$C_4H_6O_6$	[147-73-9]	*meso*-tartaric acid				
	SUB		156.9			[1983DEW/BOW]
$C_4H_6O_6$	[87-69-4]	L-(+)-tartaric acid				
	FUS		36.3	445.0	DSC	[2012MEL/PIN]
	FUS		32.3	445.1	DSC	[1998MUR/BET]
C_4H_6S	[5954-75-6]	2-vinylthiirane				
	V	(273–335)	38.7	288	A	[1987STE/MAL, 1999DYK/SVO]
C_4H_6S	[627-51-0]	divinyl sulfide				
	V		38.3 ± 0.7	298	C	[1989VOR/KLY]
C_4H_6S	[1120-59-8]	2,3-dihydrothiophene				
	V		37.7 ± 0.4	298	C	[1962DAV/SUN]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4H_6S	[1708-32-3]	2,5-dihydrothiophene				
	V		40.0 ± 0.3	298	C	[1962DAV/SUN]
$C_4H_6S_3$	[1748-15-8]	1,3-dithian-2-thione				
	SUB	(321–348)	88.6	335		[1967GEI/SCH]
	SUB		91.4 ± 2.5	298		[1967GEI/SCH, 1970COX/PIL]
C_4H_7Br	[31849-78-2]	*cis*-1-bromo-1-butene				
	V	(280–397)	35.1	295	A	[1987STE/MAL, 1971DYK]
	V	(229–359)	36.5	244		[1947STU]
C_4H_7Br	[32620-08-9]	*trans*-1-bromo-1-butene				
	V	(234–368)	36.1	249	A	[1987STE/MAL, 1947STU]
C_4H_7Br	[23074-36-4]	2-bromo-1-butene				
	V	(276–391)	34.5	291	A	[1987STE/MAL, 1971DYK]
	V	(226–354)	36.1	241		[1947STU]
C_4H_7Br	[3017-71-8]	*cis*-2-bromo-2-butene				
	V	(234–367)	36.5	249	A	[1987STE/MAL, 1947STU]
C_4H_7Br	[3017-68-3]	*trans*-2-bromo-2-butene				
	V	(228–359)	35.7	243	A	[1987STE/MAL, 1947STU]
C_4H_7BrO	[816-40-0]	1-bromo-2-butanone				
	V	(322–428)	49.9	337	A	[1987STE/MAL, 1948CAT/ELL]
	V	(279–420)	47.7	294		[1947STU]
C_4H_7BrO	[814-75-5]	3-bromo-2-butanone				
	V	(306–409)	46.4	321	A	[1987STE/MAL, 1948CAT/ELL]
C_4H_7BrO	[2736-37-0]	isobutyryl bromide				
	V	(286–436)	45.7	301	A	[1987STE/MAL, 1947STU]
$C_4H_7Br_3$	[62127-48-4]	1,3-dibromo-2-(bromomethyl)propane				
	V	(475–660)	66.1	490	A	[1987STE/MAL]
$C_4H_7Br_3$	[3675-68-1]	1,1,2-tribromobutane				
	V	(361–490)	49.4	376	A	[1987STE/MAL]
$C_4H_7Br_3$	[3675-69-2]	1,2,2-tribromobutane				
	V	(356–487)	48.4	371	A	[1987STE/MAL]
	V	(314–486)	50.7	329		[1947STU]
$C_4H_7Br_3$	[632-05-3]	1,2,3-tribromobutane				
	V	(394–546)	54.1	409	A	[1987STE/MAL, 1971DYK]
	V	(318–489)	51.3	333		[1947STU]
$C_4H_7Br_3$	[38300-67-3]	1,2,4-tribromobutane				
	V	(390–541)	53.5	405	A	[1987STE/MAL, 1971DYK]
$C_4H_7Br_3$	[62127-47-3]	2,2,3-tribromobutane				
	V	(311–480)	51.7	326	A	[1987STE/MAL, 1947STU]
C_4H_7Cl	[513-37-1]	1-chloro-2-methyl-1-propene				
	V	(285–343)	33.2	300	A	[1987STE/MAL]
C_4H_7Cl	[563-47-3]	3-chloro-2-methyl-1-propene				
	V	(285–348)	33.3	300	A	[1987STE/MAL]
C_4H_7ClO	[616-27-3]	1-chloro-2-butanone				
	V	(307–411)	49.2	322	A	[1987STE/MAL, 1971DYK]
C_4H_7ClO	[4091-39-8]	3-chloro-2-butanone				
	V	(313–389)	38.8	328	A	[1987STE/MAL, 1965PES/NAS]
C_4H_7ClO	[40605-42-3]	3-chloro-2-butene-1-ol				
	V	(345–437)	50.0	360	A	[1987STE/MAL]
$C_4H_7ClO_2$	[109-61-5]	propyl chloroformate				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(293–303)	40.7 ± 0.4	298		[1990DAV/FIN]
	V		40.7 ± 0.4	298	C	[1990DAV/FIN]
$C_4H_7ClO_2$	[105-39-5]	ethyl chloroacetate				
	V	(274–418)	45.0	289	A	[1987STE/MAL]
	V		49.5 ± 0.1	298	C	[1972LAY/WAD]
	V	(298–418)	48.5	313		[1928NEL2, 1984BOU/FRI]
C_4H_7ClS	[760996-44-9]	2-butene-3-chloro-1-thiol				
	V	(341–397)	48.2	356	A	[1987STE/MAL]
$C_4H_7Cl_2O_4P$	[62-73-7]	dimethyl-(2,2-dichlorovinyl) phosphate				
	V	(283–387)	68	298	A	[1987STE/MAL]
$C_4H_7Cl_3$	[18338-40-4]	1,2,3-trichlorobutane				
	V	(273–442)	41.3	288	A	[1987STE/MAL, 1947STU]
C_4H_7FOS	[462-31-7]	2-fluoroethyl thioacetate				
	V	(273–333)	44.7	288	A, GS	[1987STE/MAL, 1948RED/CHA4]
$C_4H_7FO_2$	[459-72-3]	ethyl fluoroacetate				
	V	(273–333)	41.9	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1971DYK]
$C_4H_7F_3$	[460-34-4]	1,1,1-trifluorobutane				
	V	(226–320)	28.1	241	A	[1987STE/MAL, 1971DYK]
$C_4H_7IO_2$	[623-48-3]	ethyl iodoacetate				
	V	(301–362)	52.1	316	A	[1987STE/MAL, 1947GOU/HOL]
C_4H_7N	[78-82-0]	isobutyronitrile				
	V	(324–354)	35.9	339		[1979SUK/VLA]
	V	(303–352)	37.5	321	BG	[1971HAL/BAL]
	V		37.1 ± 0.1	298	C	[1970HOW/WAD]
C_4H_7N	[109-74-0]	butyronitrile				
	V		39.2 ± 0.1	298	C	[1982FUC/HAL]
	V	(303–493)	38.8	318	EB	[1971MEY/REN]
	V		39.3 ± 0.1	298	C	[1970HOW/WAD]
	V	(332–401)	37.7	347	A, EB	[1987STE/MAL, 1947STU, 1973MEY/HOT]
	V		37.0	298	EB	[1959EVA/SKI, 2005EME/VER]
	V	(294–415)	40.5 ± 0.2	298	MM	[1933HEI, 2005EME/VER]
C_4H_7NO	[75-86-5]	2-hydroxy-2-methylpropanenitrile (acetone cyanohydrin)				
	V	(355–393)	106.5	370	A	[1987STE/MAL]
C_4H_7NO	[4476-02-2]	2-hydroxybutyronitrile				
	V	(314–452)	57.9	329	A	[1987STE/MAL, 1947STU]
C_4H_7NO	[1120-64-5]	2-methyl-2-oxazoline				
	V		39.1 ± 0.3	298	C	[1976HAM/THO]
C_4H_7NO	[79-39-0]	methylacrylamide				
	FUS		15.0	385.1		[1996DOM/HEA, 1991STE/CHI2]
	V	(390–418)	86.3	404	A	[1987STE/MAL]
	V	(390–418)	90.0	404		[1978MAT/TRA]
C_4H_7NO	[62957-60-2]	ethoxyacetonitrile				
	V	(273–313)	46.5 ± 0.3	298	GS	[1995VER/BEC]
C_4H_7NO	[110-67-8]	3-methoxypropionitrile				
	V	(328–438)	47.6	343	A	[1987STE/MAL]
	V	(293–436)	52.3	308	A	[1987STE/MAL]
	V	(293–436)	50.5	308		[1978STR/ROG]
C_4H_7NO	[616-45-5]	2-pyrrolidone				
	FUS		13.92	299		[1996DOM/HEA, 1959KOL/PAU]
	V	(391–484)	73.6 ± 1.3	298	EB, BG	[1998MOR/KOP]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		41.7 ± 0.6			[1995VIE/DEQ]
	V		69.1 ± 0.5	298	C	[1990LEI/PIL2]
	V	(395–518)	60	410	A	[1987STE/MAL]
C_4H_7NO	[31110-30-2]	*cis*-2-butenoic acid amide				
	SUB	(353–387)	68.0	368	A	[1987STE/MAL]
C_4H_7NO	[625-37-6]	*trans*-2-butenoic acid amide				
	SUB	(363–413)	80.0	378	A	[1987STE/MAL]
C_4H_7NOS	[17374-18-4]	tetrahydro-2*H*-1,3-oxazine-2-thione				
	FUS		18.4	400.2	DSC	[2008TEM/ROU3]
	SUB	(345–380)	107.5 ± 5.1	362	ME	[2011ROU/TEM]
	SUB	(345–380)	108.9 ± 5.1	298	ME	[2011ROU/TEM]
$C_4H_7NO_2$	[625-77-4]	diacetamide				
	SUB		73.2 ± 0.8	298	C	[1965WAD, 1971MOR]
	V	(368–496)	59.7	383	A	[1987STE/MAL]
	V	(343–496)	64.6	358		[1947STU]
$C_4H_7NO_2$	[2783-12-2]	2-nitro-1-butene				
	V	(273–333)	44.0	288	A	[1987STE/MAL, 1971DYK, 1948RED/CHA5]
$C_4H_7NO_2$	[22677-21-0]	(*R*)-4-hydroxy-2-pyrrolidone				
	FUS		23.41	392	DSC	[2004WAN/WIE]
$C_4H_7NO_2$	[68108-18-9]	(-)-4-hydroxy-2-pyrrolidone				
	FUS		28.49	429.8	DSC	[1999LI/ZEL]
$C_4H_7NO_2$	[25747-41-5]	(+)-4-hydroxy-2-pyrrolidone				
	FUS		26.74	394.8	DSC	[1999LI/ZEL]
$C_4H_7NO_3$	[543-24-8]	*N*-acetylglycine				
	SUB		127.0 ± 1.0	389	TE, ME	[1979DEK/VOO]
$C_4H_7NO_4$	[56-84-8]	L-aspartic acid				
	SUB	(370–470)	U 96 ± 4.2	420	LE	[1977GAF/PIE]
C_4H_7NS	[2346-00-1]	2-methyl-2-thiazoline				
	FUS		6.6	209.1	DSC	[2013FLO/MEN]
$C_4H_7N_3O_6$	[7283-33-2]	1,1,1-trinitrobutane				
	V		66.5 ± 0.8	298	C	[2011MIR/KON]
$C_4H_7N_3O_9$	[6859-60-5]	1,2,4-butanetriol trinitrate				
	V	(293–313)	60.0 ± 11.3	303	A, GS	[1987STE/MAL, 1957MCC/DOU]
$C_4H_7N_5$	[1004-38-2]	2,4,6-triaminopyrimidine				
	SUB		124.1 ± 1.5	402.1	ME	[2012RIB/GAL]
	SUB		125.4 ± 1.8	298	ME	[2012RIB/GAL]
C_4H_8	[106-98-9]	1-butene				
	FUS		3.85	87.8		[1996DOM/HEA, 1946AST/FIN]
	V	(200–274)	23.3	259	A	[1987STE/MAL]
	V	(126–192)	28.3	177	A	[1987STE/MAL]
	V	(267–345)	22.8	282	A	[1987STE/MAL]
	V	(342–411)	22.0	357	A	[1987STE/MAL]
	V	(267–411)	22.5	282	A	[1987STE/MAL]
	V		20.1	298		[1971WIL/ZWO]
	V		25.3	202		[1946AST/FIN]
	V		24.5	219		[1946AST/FIN]
	V		23.3	242		[1946AST/FIN]
	V		21.9	267		[1946AST/FIN]
	V	(216–273)	23.2	258		[1940LAM/ROP, 1984BOU/FRI]
C_4H_8	[590-18-1]	*cis*-2-butene				
	FUS		7.05	134.5	AC	[1947AST/FIN]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		7.31	134.3		[1996DOM/HEA, 1944SCO/FER]
	FUS		7.32	133.8		[1996DOM/HEA, 1936TOD/PAR]
	V	(221–290)	24.4	275	A	[1987STE/MAL]
	V	(276–325)	24.0	291	A	[1987STE/MAL]
	V	(324–386)	23.6	339	A	[1987STE/MAL]
	V	(383–431)	23.6	398	A	[1987STE/MAL]
	V		22.1	298		[1971WIL/ZWO]
	V		22.5	246	C	[1944SCO/FER]
	V	(195–267)	25.3	252		[1942BEN, 1984BOU/FRI]
C_4H_8	[624-64-6]	*trans*-2-butene				
	FUS		9.76	167.6		[1996DOM/HEA, 1945GUT/PIT]
	FUS		9.87	167.6		[1996DOM/HEA, 1936TOD/PAR]
	V	(205–287)	23.9	272	A	[1987STE/MAL]
	V	(273–315)	23.6	288	A	[1987STE/MAL]
	V	(313–385)	23.3	328	A	[1987STE/MAL]
	V	(382–428)	23.2	397	A	[1987STE/MAL]
	V		21.3	298		[1971WIL/ZWO]
	V		22.8 ± 0.1	274	C	[1945GUT/PIT]
	V	(203–274)	24.2	259		[1945GUT/PIT, 1984BOU/FRI]
	V	(205–283)	23.9	268		[1940LAM/ROP, 1984BOU/FRI]
C_4H_8	[287-23-0]	cyclobutane				
	TRS		5.71	145.7		
	FUS		1.09	182.4		[1996DOM/HEA, 1953RAT/GWI]
	TRS		5.78	146.4		
	FUS		1.04	183.0		[1952KAA/COO]
	SUB		36.4	145	B	[1963BON]
	V	(198–287)	25.2	272	A	[1987STE/MAL]
	V	(217–285)	25.2	270		[1953RAT/GWI, 1984BOU/FRI]
C_4H_8	[594-11-6]	methylcyclopropane				
	V	(177–278)	24.8	263	A	[1987STE/MAL, 1947STU]
C_4H_8	[115-11-7]	2-methylpropene				
	FUS		5.92	132.4		[1996DOM/HEA, 1936TOD/PAR]
	V	(212–279)	23.1	264	A	[1987STE/MAL]
	V	(266–313)	22.7	281	A	[1987STE/MAL]
	V	(310–376)	22.2	325	A	[1987STE/MAL]
	V	(371–418)	22.3	386	A	[1987STE/MAL]
	V		20.6	298		[1971WIL/ZWO]
	V	(303–398)	22.2	350		[1942BEA/ING]
	V	(216–273)	22.8	258		[1940LAM/ROP, 1984BOU/FRI]
C_4H_8BrClO	[51070-66-7]	2-bromoethyl 2-chloroethyl ether				
	V	(309–469)	53.3	324	A	[1987STE/MAL, 1947STU]
$C_4H_8Br_2$	[62168-25-6]	1,1-dibromobutane				
	V	(342–477)	45.8	357	A, EST	[1987STE/MAL, 1956MAN, 1971DYK]
$C_4H_8Br_2$	[533-98-2]	1,2-dibromobutane				
	V	(338–425)	43.5	353	A	[1987STE/MAL]
	V	(330–425)	45.9	298		[1975PIS/ROZ2, 1975PIS/ROZ]
	V		45.6 ± 0.7	298	EB	[1975PIS/ROZ]
	V	(281–439)	42.8	296	A	[1987STE/MAL, 1947STU]
	V	(273–333)	45.1	300		[1941LIS]
$C_4H_8Br_2$	[107-80-2]	1,3-dibromobutane				
	V	(351–450)	44.7	366	A	[1987STE/MAL]
	V		49.4	298		[1980VAR/PIS]
$C_4H_8Br_2$	[110-52-1]	1,4-dibromobutane				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		52.6	298	GC	[1994CAR/LAY]
	V	(375–520)	51.4	390	A	[1987STE/MAL, 1971DYK]
	V	(305–470)	49.4	320		[1947STU]
$C_4H_8Br_2$	[5780-13-2]	*meso*-2,3-dibromobutane				
	V	(274–431)	41.7	289	A	[1987STE/MAL, 1947STU]
$C_4H_8Br_2$	[598-71-0]	*threo*-2,3-dibromobutane				
	V	(278–434)	40.9	293	A	[1987STE/MAL]
$C_4H_8Br_2$	[594-34-3]	1,2-dibromo-2-methylpropane				
	V		43.3 ± 0.1		C	[1974SUN/WUL]
	V	(244–422)	33.3	259	A	[1987STE/MAL, 1947STU]
$C_4H_8Br_2$	[28148-04-1]	1,3-dibromo-2-methylpropane				
	V	(287–448)	45.1	302	A	[1987STE/MAL, 1947STU]
$C_4H_8Br_2O$	[5414-19-7]	bis(2-bromoethyl) ether				
	V	(320–486)	55.1	335	A	[1987STE/MAL, 1947STU]
$C_4H_8Br_2O_2$	[1947-58-6]	(*dl*)-2,3-dibromo-1,4-butanediol				
	FUS		29.29	363.2		[1981CHI/GAR]
$C_4H_8Br_2O_2$		(*d*)-2,3-dibromo-1,4-butanediol				
	FUS		33.89	388.2		[1981CHI/GAR]
$C_4H_8Cl_2$	[541-33-3]	1,1-dichlorobutane				
	V	(310–390)	39.5	298		[1991BAS/SVO]
	V	(304–386)	38.7	319	A	[1987STE/MAL]
	V		39.4 ± 0.6	298	EB	[1977PIS/ROZ]
	V	(303–428)	38.8	318	EST	[1987STE/MAL, 1956MAN]
$C_4H_8Cl_2$	[616-21-7]	1,2-dichlorobutane				
	V		40.1 ± 0.1	298	C	[1992HE/AN]
	V		40.2 ± 0.1	298	C	[1989AN/HU]
	V	(312–394)	39.0	327	A	[1987STE/MAL]
	V	(310–390)	40.4	298		[1982ROO, 1991BAS/SVO]
	V		40.1 ± 0.6	298	EB	[1975PIS/ROZ2]
	V	(249–397)	38.1	264	A	[1987STE/MAL, 1947STU]
$C_4H_8Cl_2$	[1190-22-3]	1,3-dichlorobutane				
	V		42.2 ± 0.1	298	C	[1992HE/AN]
	V	(320–400)	42.3	298		[1991BAS/SVO]
	V		42.3 ± 1.8	298	C	[1990AN/HE]
	V	(318–407)	40.5	333	A	[1987STE/MAL]
	V		42.1	298		[1980VAR/PIS]
$C_4H_8Cl_2$	[110-56-5]	1,4-dichlorobutane				
	V		46.7	298	GC	[1994CAR/LAY]
	V		46.5 ± 0.1	298	C	[1992HE/AN]
	V	(325–425)	46.4	298		[1991BAS/SVO]
	V		46.4 ± 0.1	298	C	[1990AN/HE]
	V		46.4 ± 0.1	298	C	[1989AN/HU]
	V	(336–425)	43.4	351	A	[1987STE/MAL, 1971DYK]
$C_4H_8Cl_2$	[4279-22-5]	2,2-dichlorobutane				
	V		36.3 ± 0.1	298	C	[1992HE/AN]
	V	(300–370)	36.7	298		[1991BAS/SVO]
	V	(293–376)	36.4	308	A	[1987STE/MAL]
	V		33.7 ± 0.6	298	EB	[1977PIS/ROZ]
$C_4H_8Cl_2$	[4028-56-2]	*meso*-2,3-dichlorobutane				
	V		38.4	298	C	[1992HE/AN, 1993HE/AN]
$C_4H_8Cl_2$	[2211-67-8]	(*dl*)-2,3-dichlorobutane				
	V		39.7	298	C	[1993HE/AN]
$C_4H_8Cl_2$	[7581-97-7]	2,3-dichlorobutane				
	V	(247–389)	39.6	262	A	[1987STE/MAL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_8Cl_2$	[598-76-5]	1,1-dichloro-2-methylpropane				
	V	(242–379)	38.7	257	A	[1987STE/MAL]
$C_4H_8Cl_2$	[594-37-6]	1,2-dichloro-2-methylpropane				
	V	(247–381)	40.4	262	A	[1987STE/MAL, 1947STU]
$C_4H_8Cl_2$	[616-19-3]	1,3-dichloro-2-methylpropane				
	V	(270–408)	45.1	285	A	[1987STE/MAL, 1947STU]
$C_4H_8Cl_2O$	[111-44-4]	bis(2-chloroethyl) ether				
	FUS		8.39	226.5		[1996DOM/HEA, 1948TSC]
	V	(297–452)	49.8	312	A	[1987STE/MAL, 1947STU]
$C_4H_8Cl_2S$	[505-60-2]	bis(2-chloroethyl) sulfide				
	SUB	(248–293)	80.9	271		[2006BUC/BUE]
	SUB	(263–287)	77.2	275	A	[1987STE/MAL]
	SUB		84.5		B	[1963BON, 1947BAL/DEN]
	V	(288–358)	59.6	303	A, MM	[1987STE/MAL, 1947BAL/DEN, 1984BOU/FRI, 1948BEN/FRA]
	V	(353–393)	50.3	373		[1943HOL/MEL]
$C_4H_8Cl_2S_3$	[19149-77-0]	bis(2-chloroethyl) trisulfide				
	V	(293–333)	68.2	308	A, GS	[1987STE/MAL, 1948RED/CHA, 1999DYK/SVO]
$C_4H_8Cl_3O_4P$	[52-68-6]	(1-hydroxy-2,2,2-trichloroethyl)phosphonic acid dimethyl ester				
	FUS		20.37	351	DSC	[1990DON/DRE, 1996DOM/HEA]
	FUS (I)		22.4	357		
	FUS (II)		25.0	384		
	FUS (III)		20.3	351	DSC	[1989UTS/GAE]
	SUB	(293–357)	107	308		[1987STE/MAL]
$C_4H_8F_2$	[353-81-1]	1,1-difluorobutane				
	V	(246–347)	31	261	A, EST	[1987STE/MAL, 1956MAN, 1971DYK]
$C_4H_8F_2$	[353-81-1]	2,2-difluorobutane				
	V	(238–336)	30	253	A	[1987STE/MAL, 1971DYK]
$C_4H_8F_2O$	[184899-81-8]	1,1,1,2,2,3,3-heptafluoro-3-(fluoromethoxy)propane				
	V	(283–316)	31	298	I	[2002MUR/YAM]
$C_4H_8F_2O_4S$	[381-46-4]	bis(2-fluoroethyl) sulfate				
	V	(273–333)	63.9	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1999DYK/SVO]
$C_4H_8I_2$	[628-21-7]	1,4-diiodobutane				
	V		59	298	GC	[1994CAR/LAY]
$C_4H_8N_2$	[926-64-7]	(dimethylamino)acetonitrile				
	V	(277–307)	45.4 ± 0.6		GS	[1997WEL/VER]
$C_4H_8N_2$	[1606-49-1]	1,4,5,6-tetrahydropyrimidine				
	V	(330–395)	75.6 ± 2.0	298	IPM	[1996STE/CHI3]
	V	(330–395)	73.6 ± 1.4	340	IPM	[1996STE/CHI3]
	V	(330–395)	72.1 ± 1.2	380	IPM	[1996STE/CHI3]
$C_4H_8N_2O$	[1852-17-1]	tetrahydro-2-pyrimidone				
	FUS		30.6	523	DSC	[1999DEF/DEO, 1999DEF]
	SUB	(363–385)	113.4 ± 0.7	298	ME	[2008RIB/RIB]
	SUB		89.3 ± 2.5	298	V+ F	[1999DEF/DEO, 1999DEF]
$C_4H_8N_2O_2$	[3148-73-0]	1,2-diacetylhydrazine				
	SUB	(347–358)	103.1 ± 1.7	352.5	A	[1987STE/MAL, 1959TAK/SHI]
$C_4H_8N_2O_2$	[95-45-4]	dimethylglyoxime				
	SUB	(331–352)	96.8	341.5	A	[1987STE/MAL]
	SUB		97.1 ± 2.1			[1956SEK/SUZ, 1970COX/PIL, 1960JON]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_8N_2O_2$	[2620-63-5]	*N*-acetylglycine amide				
	FUS		26.7	412.2	DSC	[1997ABA/PAL]
	FUS		25.6	408.2	DSC	[1996DOM/HEA, 1988FER/DEL]
	SUB		123.5 ± 1.7	376	C	[1999DEL/BAR]
	SUB		126.3 ± 2.3			[1999DEL/BAR]
	SUB		140.2 ± 2.3	298	C	[1995DEL/SAB]
	SUB	(378–406)	135 ± 3	392	TE	[1988FER/DEL, 1986BAR/FER]
$C_4H_8N_2O_2$	[110-14-5]	succinamide				
	FUS		6.08	485.9	DSC	[2006BAD/DEL]
$C_4H_8N_2O_2$	[59-89-2]	*N*-nitrosomorpholine				
	V		50.2	343		[1988GOL/SIT]
$C_4H_8N_2O_3$	[4164-32-3]	*N*-nitromorpholine				
	SUB		81.6	288		[1988GOL/SIT]
$C_4H_8N_2O_3$	[556-50-3]	α-glycylglycine				
	FUS	(6–440)	62.0	493	AC, DSC	[2006DRE/KOV]
[Note: Authors report melting is accompanied by decomposition.]						
$C_4H_8N_2O_4$	[3759-55-5]	1,1-dinitrobutane				
	V		64.9 ± 0.8	298	C	[2011MIR/KON]
$C_4H_8N_2O_4$	[4286-49-1]	1,4-dinitrobutane				
	V		77.4 ± 0.8	298	C	[2011MIR/KON]
$C_4H_8N_2O_6$	[6423-44-5]	1,3-butanediol dinitrate				
	FUS		16.7	253.4	FPM	[1957KEM/GOL]
	V	(293–313)	71.4 ± 7.1	303	A, GS	[1987STE/MAL, 1957KEM/GOL]
$C_4H_8N_2O_6$	[3457-91-8]	1,4-butanediol dinitrate				
	FUS		26.7	285.5	FPM	[1957KEM/GOL]
	V	(293–313)	57.4 ± 0.8	303	A, GS	[1987STE/MAL, 1957KEM/GOL]
$C_4H_8N_2O_7$	[693-21-0]	diethyleneglycol dinitrate				
	FUS	(80–320)	25.4	276.5	AC	[2000URY/KUP]
	V	(293–333)	93.3	308	A	[1987STE/MAL, 1959VAC/STA]
$C_4H_8N_4O_2$	[140-79-4]	1,4-dinitrosopiperazine				
	SUB	(325–360)	101.3 ± 8	343		[1974PEP/MAT, 1977PED/RYL]
$C_4H_8N_4O_4$	[4164-37-8]	1,4-dinitropiperazine				
	FUS		200.8	489.2	DSC	[2001OXL/SMI]
[Note: Enthalpy of fusion is abnormally high, compound may be decomposing.]						
	FUS		33.93	489.6	DSC	[1997ZEM]
	SUB		102.9 ± 1.3	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
	SUB	(325–360)	111.3 ± 8	343		[1974PEP/MAT, 1977PED/RYL]
$C_4H_8N_4O_4$	[5754-89-2]	1,3-dinitro-1,3-diazacyclohexane				
	TRS		15.8	343		
	FUS		2.97	354		[1991PIC/RYL]
$C_4H_8N_6O_5$	[5800-63-5]	1,5-dinitro-3-nitroso-1,3,5-triazacycloheptane				
	TRS		25.7	404		
	FUS		2.9	440		[1991PIC/RYL]
$C_4H_8N_6O_6$	[5790-78-3]	1,3,5-trinitro-1,3,5-triazacycloheptane				
	FUS		27.74	435.9	DSC	[1997ZEM]
$C_4H_8N_8O_8$	[2691-41-0]	1,3,5,7-tetranitro-1,3,5,7-tetrazacyclooctane				
	FUS (δ)		69.87	553.2		[1996DOM/HEA, 1992MAK]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		176.1 ± 1.7	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
	SUB	(461–487)	161.9	474		[1976TAY/CRO]
	SUB (δ)	(415–479)	161 ± 0.3	447		[1978CUN/PAL]
	SUB (β)	(371–403)	175.2	385		[1969ROS/DIC]
$C_4H_8N_{12}O_6$	[62209-57-8]	1,7-diazido-2,4,6-trinitro-2,4,6-triazaheptane				
	FUS		40.17	406	DTA	[1987OYU/BRI]
C_4H_8O	[2919-23-5]	cyclobutanol				
	FUS		8.53	228.4		[1982DWO/FUC]
C_4H_8O	[78-93-3]	2-butanone				
	FUS		8.44	186.5		[1991ACR, 1972FIN/MES]
	V	(294–342)	34.6	309	A	[1987STE/MAL]
	V	(353–403)	32.5	368	A	[1987STE/MAL]
	V	(397–479)	31.6	412	A	[1987STE/MAL]
	V	(473–537)	31.1	488	A	[1987STE/MAL]
	V		34.8 ± 0.1	298	C	[1983UCH/MAJ]
	V		35.0 ± 0.6	298	C	[1981GAT/STR]
	V		34.5 ± 0.1	298	C	[1979SUN/SVE2]
	V	(258–362)	35.6	273		[1978CAV/CHA]
	V		34.7			[1975AMB/ELL]
	V	(315–363)	33.9	330	A, EB, GS	[1987STE/MAL, 1975AMB/ELL, 1965COL/COU]
	V		33.8	315	C	[1973GEI/QUI]
	V		33.8 ± 0.1	314	C	[1961NIC/KOB]
	V		32.3 ± 0.1	338	C	[1961NIC/KOB]
	V		31.3 ± 0.1	352	C	[1961NIC/KOB]
	V		30.5 ± 0.1	363	C	[1961NIC/KOB]
	V		30.0 ± 0.1	370	C	[1961NIC/KOB]
	V	(314–370)	33.9	329		[1947STU]
C_4H_8O	[513-42-8]	2-methyl-2-propen-1-ol				
	V	(323–373)	51.9	298	CGC	[1995CHI/HOS]
C_4H_8O	[627-27-0]	3-buten-1-ol				
	V	(343–393)	50.8 ± 0.0	298	CGC	[2005VAL/QUI]
	V		50.9 ± 0.1	313	C	[1996ULB/KLU]
	V		48.8 ± 0.1	328	C	[1996ULB/KLU]
	V		46.7 ± 0.1	343	C	[1996ULB/KLU]
C_4H_8O	[6118-14-5]	(*dl*)-3-buten-2-ol				
	V	(304–370)	39.2	319	A	[1987STE/MAL]
C_4H_8O	[123-72-8]	butyraldehyde				
	FUS		11.09	176.8		[1996DOM/HEA, 1989VAS/LEB]
	V	(313–353)	33.2	298	CGC	[1995CHI/HOS]
	V	(293–349)	34.2	308	A	[1987STE/MAL]
	V		33.7 ± 0.4	298	EB	[1967BUC/COX, 2003VER/KRA2]
	V	(330–348)	32.9	339	EB	[1963WOJ]
	V	(304–347)	33.3	319		[1959SEP/PAU, 1984BOU/FRI]
	V	(258–353)	33.9	306		[1938KUC]
C_4H_8O	[106-88-7]	(*dl*)-1,2-epoxybutane				
	V		33.4 ± 1.3	298	EB	[2013MOR/ELL]
	V	(297–361)	32.1	312		[1997MON/BUR]
	V	(254–347)	24.7	269	A	[1987STE/MAL]
C_4H_8O	[558-30-5]	1,2-epoxy-2-methylpropane (2,2-dimethyloxirane)				
	V	(204–329)	30.6	219	A	[1987STE/MAL, 1947STU]
C_4H_8O	[109-92-2]	ethyl vinyl ether				
	V	(223–309)	29.5	238	A	[1987STE/MAL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4H_8O	[78-84-2]	isobutyraldehyde				
	V	(313–353)	32.3	298	CGC	[1995CHI/HOS]
	V	(313–324)	31.4	318		[1984ENG/SAN]
	V	(309–337)	31.8	324		[1976BRA/PES]
	V	(333–347)	33.4	340	EB	[1963WOJ]
	V	(283–337)	32.8	298	A	[1987STE/MAL, 1959SEP/PAU, 1964SER/TIM]
C_4H_8O	[116-11-0]	2-methoxy-1-propene				
	V	(281–309)	28.3 ± 0.1	295	Static	[1988BAG/GUR]
C_4H_8O	[4188-68-5]	*cis*-methyl propenyl ether				
	V	(293–318)	30.6	305	A	[1987STE/MAL]
C_4H_8O	[4188-69-6]	*trans*-methyl propenyl ether				
	V	(293–322)	29.5	307	A	[1987STE/MAL]
C_4H_8O	[109-99-9]	tetrahydrofuran				
	FUS	(8–322)	8.54	164.8	AC	[1991ACR, 1978LEB/RAB2]
	V	(290–339)	32.3	305		[2001LOR/AUC]
	V	(273–339)	33.1	288	A	[1987STE/MAL]
	V	(399–479)	29.0	414	A	[1987STE/MAL]
	V	(467–541)	29.6	482	A	[1987STE/MAL]
	V		32.0	298	C	[1981HOS/SCO]
	V	(235–340)	32.5 ± 0.2	288		[1976BOR/CHU]
	V	(302–339)	30.8	320		[1975RIV]
	V	(273–308)	32.8	288		[1970KOI/OUC, 1984BOU/FRI]
	V	(296–373)	31.9	311		[1970SCO, 1984BOU/FRI]
	V	(224–360)	32.9	298		[1970MOI/ANT]
	V	(293–341)	U26.9	308		[1959BIS/FIN]
	V	(293–313)	31.8	313		[1948KLA/MOH, 1958CAS/FLE3]
C_4H_8O	[1758-33-4]	*cis*-2,3-dimethyloxirane				
	V		33.9 ± 1.3	298	EB	[2013MOR/ELL]
C_4H_8O	[21490-63-1]	*trans*-2,3-dimethyloxirane				
	V		33.1 ± 1.3	298	EB	[2013MOR/ELL]
C_4H_8O	[558-30-5]	2,2-dimethyloxirane				
	V		30.9 ± 1.3	298	EB	[2013MOR/ELL]
C_4H_8OS	[1600-44-8]	tetrahydrothiophene 1-oxide				
	TRS		5.85	223.9		
	FUS		0.51	231.8	DSC	[1990HAI/GIL]
C_4H_8OS	[15980-15-1]	1,4-oxathiane				
	V	(342–411)	42.1	378		[1999DYK/SVO]
	V	(342–411)	44.8	357	A	[1987STE/MAL, 1933JOH]
C_4H_8OS	[625-60-5]	*S*-ethyl thiolacetate				
	V		40.0 ± 0.2	298	C	[1966WAD]
$C_4H_8OS_2$	[16487-10-8]	1,3-dithiane sulfoxide				
	FUS		22.6	361.9	DSC	[2003ROU/TEM2]
	SUB	(320–337)	97.7 ± 0.8	298	ME	[2004ROU/TEM4]
$C_4H_8O_2$	[497-26-7]	2-methyl-1,3-dioxolane				
	V	(270–308)	43.0 ± 0.6		GS	[1998VER/PEN, 2002VER]
$C_4H_8O_2$	[6117-80-2]	*cis*-2-butene-1,4-diol				
	V	(373–508)	74.7	388	A	[1987STE/MAL]
$C_4H_8O_2$	[922-69-0]	1,1-dimethoxyethene				
	V	(303–362)	39.6	333		[1995GUT/LIU]
$C_4H_8O_2$	[107-92-6]	butanoic acid				
	FUS		7.55	267.55	DSC	[2010HEN/CAM]
	TRS		1.04	222.2		
	FUS	(16–373)	11.59	268	AC	[1982MAR/AND]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		11.07	267.4		[1991ACR, 1926PAR/AND]
	SUB	(238–255)	76.0 ± 1.5	248	TE, ME	[1978CAL/CAL]
	V	(384–435)	52.5	399		[2004CLI/RAM]
	V	(391–429)	50.3	406	EB	[2001MUN/KRA]
	V	(303–378)	58.5	298	CGC	[2000VER2]
	V	(278–308)	58.5 ± 0.3	293	GS	[2000VER2]
	V	(278–308)	58.2 ± 0.3	298	GS	[2000VER2]
	V	(353–393)	60.7	298	CGC	[1995CHI/HOS]
	V	(437–592)	47.7	452	A	[1987STE/MAL]
	V	(301–358)	51.1	316	A	[1987STE/MAL]
	V	(355–453)	53.2	370	A	[1987STE/MAL, 1971DYK]
	V (monomer)		40.5 ± 0.1	298	C	[1970KON/WAD]
	V		58 ± 4	298	C	[1970KON/WAD]
	V	(363–436)	52.0	378		[1949DRE/SHR, 1949DRE/MAR, 1984BOU/FRI]
$(C_4H_8O_2)_2$	[19496-06-1]	butanoic acid dimer				
	SUB	(238–255)	85 ± 1.5	248	TE, ME	[1978CAL/CAL]
$C_4H_8O_2$	[505-22-6]	1,3-dioxane				
	V		39.1 ± 0.1	298	C	[1982BYS/MAN]
	V		35.6 ± 0.4			[1959FLE/MOR]
$C_4H_8O_2$	[123-91-1]	1,4-dioxane				
	FUS		16.39	277.2	DSC	[2015SOL/ROD]
	FUS		10.30	284.3	DSC	[2012ROD/SOL]
	TRS		2.35	272.9		
	FUS		12.84	284.1		[1996DOM/HEA, 1934JAC/PAR]
	FUS		11.88	283.2		[1933ROT/MEY]
	SUB	(237–272)	35.6	255	A	[1947STU]
	V	(285–375)	38.0	300	A	[1987STE/MAL]
	V	(329–372)	36.5	350		[1984CAS/FRA]
	V		38.6 ± 0.1	298	C	[1982BYS/MAN]
	V	(293–398)	37.3	308		[1963VIN/MAR, 1984BOU/FRI]
	V	(283–353)	37.0	318		[1936HOV/SCH]
$C_4H_8O_2$	[141-78-6]	ethyl acetate				
	FUS		10.48	189.3		[1991ACR, 1983WEA, 1933PAR/HUF]
	V	(300–390)	34.1	315		[1997HER/ORT]
	V	(313–353)	35.0	298	CGC	[1995CHI/HOS]
	V	(271–373)	36.7	286		[1981AMB/ELL, 1984BOU/FRI]
	V		35.6 ± 0.1	298	C	[1980SVO/UCH]
	V		34.6 ± 0.1	313	C	[1980SVO/UCH]
	V		31.4 ± 0.1	343	C	[1980SVO/UCH]
	V		33.8 ± 0.1	326	C	[1977SVO/VES]
	V		33.4 ± 0.1	331	C	[1977SVO/VES]
	V		32.4 ± 0.1	344	C	[1977SVO/VES]
	V		31.9 ± 0.1	351	C	[1977SVO/VES]
	V		31.0 ± 0.1	363	C	[1977SVO/VES]
	V		34.0	320		[1976CON/COU]
	V		31.9	350		[1976CON/COU]
	V		35.1 ± 0.2	298	C	[1966WAD]
	V	(288–351)	35.7	303	A	[1987STE/MAL, 1965MER/POL, 1971DYK]
$C_4H_8O_2$	[513-86-0]	3-hydroxy-2-butanone (acetoin)				
	V	(363–393)	48.7 ± 0.4	298	CGC	[2005TEM/CHI]
	V	(372–417)	40.2	395	I	[1947EFR/BLO]
	V	(273–418)	38.4	288	A	[1987STE/MAL, 1934POU/WIL]
$C_4H_8O_2$	[79-31-2]	2-methylpropanoic acid				
	V	(375–426)	50.5	390		[2004CLI/RAM]
	V	(303–378)	56.3	298	CGC	[2000VER2]
	V	(278–308)	55.8 ± 0.3	293	GS	[2000VER2]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(278–308)	55.5 ± 0.3	298	GS	[2000VER2]
	V	(344–445)	51.6	359	EB	[1987AMB/GHI3]
	V	(288–428)	50.9	303	A	[1987STE/MAL]
	V	(428–562)	45.4	443	A	[1987STE/MAL]
	V	(228–243)	53.4 ± 3	398	TE	[1979DEK/OON]
	V (monomer)		35.5 ± 0.1	298	C	[1970KON/WAD]
	V		53 ± 4	298	C	[1970KON/WAD]
$C_4H_8O_2$	[625-55-8]	isopropyl formate				
	V	(221–342)	34.5	236	A	[1987STE/MAL, 1947STU]
$C_4H_8O_2$	[554-12-1]	methyl propanoate				
	V		35.7 ± 1.2	298	CGC	[2015KOZ/GOB]
	V	(335–387)	34.1	350	EB	[2014RIO/ORT]
	V	(313–363)	28.9	298	CGC	[1995CHI/HOS]
	V		35.6 ± 0.4	298	GC	[1987AZA]
	V	(231–353)	39.1	246	A	[1987STE/MAL]
	V	(353–486)	32.8	368	A	[1987STE/MAL]
	V		36.0 ± 0.7	298	C	[1981GAT/STR]
	V		35.9 ± 0.1	298	C	[1980SVO/UCH]
	V		34.9 ± 0.1	313	C	[1980SVO/UCH]
	V		36.3 ± 0.3	298	GCC	[1980FUC/PEA]
	V		35.8 ± 0.1	298	C	[1979SUN/SVE2]
	V		34.2 ± 0.1	326	C	[1977SVO/VES]
	V		33.8 ± 0.1	331	C	[1977SVO/VES]
	V		32.8 ± 0.1	344	C	[1977SVO/VES]
	V		32.1 ± 0.1	355	C	[1977SVO/VES]
	V		31.5 ± 0.1	363	C	[1977SVO/VES]
	V	(293–353)	35.9	308	A	[1987STE/MAL, 1965MER/POL]
$C_4H_8O_2$	[110-74-7]	propyl formate				
	V	(328–371)	36.6 ± 0.1	298	EB	[1999GON/ORT, 2012SAM/NAZ]
	V	(302–353)	35.3	317	EB	[1993FAR/WIC]
	V	(302–353)	36.4 ± 0.1	298	EB	[1993FAR/WIC, 2012SAM/NAZ]
	V	(354–518)	32.7	369	A	[1987STE/MAL]
	V	(230–355)	36.8	245	A	[1987STE/MAL]
	V		37.5 ± 0.1	298	C	[1980SVO/UCH]
	V		36.5 ± 0.1	313	C	[1980SVO/UCH]
	V		35.8 ± 0.1	326	C	[1976CIH/HYN]
	V		35.4 ± 0.1	331	C	[1976CIH/HYN]
	V		34.4 ± 0.1	344	C	[1976CIH/HYN]
	V		33.8 ± 0.1	351	C	[1976CIH/HYN]
	V		33.5 ± 0.1	355	C	[1976CIH/HYN]
	V		32.9 ± 0.1	363	C	[1976CIH/HYN]
	V	(299–355)	35.6	314	EB	[1928NEL, 1984BOU/FRI]
	V		36.4	298	EB	[1928NEL, 2012SAM/NAZ]
	V		32.5 ± 0.5	353	C	[1926MAT]
	V		32.5 ± 0.5	298	C	[1926MAT, 2012SAM/NAZ]
$C_4H_8O_2$	[497-26-7]	2-methyl-1,3-dioxolane				
	V		35.6			[2003CHO/DHA]
	V		34.9			[1969PIH/HEI, 2003CHO/DHA]
$C_4H_8O_2S$	[16215-14-8]	allyl methyl sulfone				
	V	(405–450)	68.2	420	A, BG	[1987STE/MAL, 1999DYK/SVO, 1961BUS/IVI]
$C_4H_8O_2S$	[126-33-0]	tetrahydrothiophene-1,1-dioxide (sulfolane)				
	TRS		7.86	288.6		
	FUS		1.37	301.7		[1999AHL/LOH]
	TRS		5.35	288.6		
	FUS		1.43	301.6		[1996DOM/MOO]
	V		69.1 ± 1.4	298	C	[2004MOR/MAT]
	V	(423–529)	59.0	438		[1999DYK/SVO]
	V	(364–529)	53.7	379		[1999DYK/SVO]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(424–542)	67.8 ± 0.8	298	EB	[1997STE/CHI3]
	V	(424–542)	58.0 ± 0.4	440	EB	[1997STE/CHI3]
	V	(424–542)	56.9 ± 0.3	480	EB	[1997STE/CHI3]
	V	(424–542)	57.8 ± 0.3	520	EB	[1997STE/CHI3]
	V	(373–453)	58.2	413	TGA	[1987ALN/ALS]
	V	(303–328)	31.0	315	A	[1987STE/MAL]
	V	(413–558)	58.7	428	A	[1987STE/MAL]
	V	(360–400)	54.5	380		[1984SHC/KAP]
	V		62.8	373		[1959DEA/EVA, 1997STE/CHI3]
	V		61.6	473		[1959DEA/EVA, 1997STE/CHI3]
$C_4H_8O_2S_2$	[55337-75-2]	1,3-dithiane sulfone				
	FUS		23.47	413.8	DSC	[2004ROU/TEM3]
	FUS		22.0	414	DSC	[2003ROU/TEM2]
	SUB	(342–358)	102.3 ± 0.9	350	ME	[2004ROU/TEM3]
	SUB	(342–358)	103.6 ± 0.9	298	ME	[2004ROU/TEM3]
$C_4H_8O_2S_2$	[139408-38-1]	1,4-dithiane sulfone				
	FUS		26.0	474.2	DSC	[2006TEM/ROU]
	SUB	(340–354)	99.9 ± 1.2	298	ME	[2006ROU/TEM]
	SUB	(340–354)	98.7 ± 1.2	347	ME	[2006ROU/TEM]
$C_4H_8O_3$	[627-03-2]	ethoxyacetic acid				
	V	(280–310)	69.1	295	A	[1987STE/MAL]
$C_4H_8O_3$	[19693-75-5]	2-methoxy-1,3-dioxolane				
	V	(278–308)	46.4 ± 0.8	298	GS	[2002VER]
	V	(278–308)	46.8 ± 0.8		GS	[1995RAK/VER2]
$C_4H_8O_3$	[623-50-7]	ethyl glycolate				
	V	(287–432)	47.1	302	A	[1987STE/MAL, 1947STU]
$C_4H_8O_3$	[594-61-6]	2-hydroxyisobutyric acid				
	V	(371–485)	67.5	386	A	[1987STE/MAL]
$C_4H_8O_3$	[6149-41-3]	methyl 3-hydroxypropionate				
	V	(330–343)	60	336	A	[1987STE/MAL]
$C_4H_8O_3$	[6290-49-9]	methoxyacetic acid, methyl ester				
	V	(285–310)	39.3	297	A	[1987STE/MAL]
$C_4H_8O_3$	[547-64-8]	(*dl*)-methyl lactate				
	V	(303–378)	50.0	318		[2014LOM/GIN]
	V	(313–418)	44.7	328	A	[1987STE/MAL, 1950REH/DIX]
$C_4H_8O_3$	[542-59-6]	ethylene glycol monoacetate				
	V	(301–346)	63.9 ± 0.3	298	GS	[2009VER/EME2]
	V	(363–448)	55.1	378	EB	[2007SCH/DOE]
$C_4H_8O_3$	[13122-71-9]	peroxybutyric acid				
	V	(273–393)	45.5	288	A	[1987STE/MAL, 1971DYK, 1951EGE/EMT]
$C_4H_8O_3$	[623-53-0]	ethyl methyl carbonate				
	FUS		11.24	219.4	DSC	[2004DIN]
$C_4H_8O_3S$	[109577-03-9]	1,3-oxathiane sulfone				
	FUS		15.2	352.9	DSC	[2006TEM/ROU]
	SUB	(307–324)	92.1 ± 0.7	298	ME	[2007ROU/TEM2]
	SUB	(307–324)	91.7 ± 0.7	316	ME	[2007ROU/TEM2]
$C_4H_8O_3S$	[107-61-9]	1,4-oxathiane sulfone				
	TRS + FUS		20.2	403.3	DSC	[2006TEM/ROU]
	SUB	(307–322)	92.0 ± 1.0	298	ME	[2007ROU/TEM2]
	SUB	(307–322)	91.6 ± 1.0	314	ME	[2007ROU/TEM2]
$C_4H_8O_4$	[293-30-1]	1,3,5,7-tetroxane				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		22.59	385		[1996DOM/HEA, 1969CLE/MEL]
	SUB		79.6 ± 0.2	298	C	[1977PED/RYL, 1969MAN/MOR]
	SUB		79.5		C	[1975BOG/BER]
C_4H_8S	[3772-13-2]	2,2-dimethylthiirane				
	V	(273–473)	37.0	288	A	[1987STE/MAL, 1971DYK, 1999DYK/SVO]
C_4H_8S	[3195-86-6]	2-ethylthiirane				
	V	(298–450)	39.7	313	A	[1987STE/MAL, 1971DYK]
C_4H_8S	[110-01-0]	tetrahydrothiophene				
	FUS	(13–333)	7.35	177		[1985DEA, 1952HUB/FIN]
	V	(333–373)	37.4	353	I	[1971EON/POM]
	V		38.8	298		[1971WIL/ZWO]
	V		39.2 ± 0.3	298	C	[1962DAV/SUN]
	V	(331–401)	37.7	346	EB	[1952WHI/BAR]
	V	(343–434)	37.1	358	A, EB	[1987STE/MAL, 1952HUB/FIN, 1966OSB/DOU]
	V		36.9	350	C	[1952HUB/FIN]
	V		35.9	370	C	[1952HUB/FIN]
	V		34.6	394	C	[1952HUB/FIN]
$C_4H_8S_2$	[505-23-7]	1,3-dithiane				
	TRS	(300–370)	0.8	316.4		
	FUS	(300–370)	14.4	327.2	DSC	[1996DOM/HEA, 1983DEW/OFF]
	SUB	(266–279)	62.9 ± 0.7	298	ME	[1999ROU/DAV]
	SUB		69.9 ± 0.4	298	GC	[1989AZA]
	SUB	(250–271)	72.6	263	TE, ME	[1983DEW/VAN]
	SUB		52.3 ± 0.8	298	C	[1971MOR]
	V		66.9 ± 0.4		GC	[1989AZA]
$C_4H_8S_2$	[505-29-3]	1,4-dithiane				
	FUS	(300–400)	21.6	384.6	DSC	[1996DOM/HEA, 1983DEW/OFF]
	SUB		63	298		[1999DAV/FLO]
	SUB		68.9	298		[1989AZA]
	SUB	(253–276)	72.4	268	E	[1983DEW/VAN]
	V	(389–437)	48.7	404		[1999DYK/SVO]
	V		68.9 ± 0.5		GC	[1989AZA]
	V	(388–437)	47.9	403	A	[1987STE/MAL]
C_4H_9Br	[109-65-9]	1-bromobutane				
	FUS		9.12	160.9	AC	[2011PAU/KAB]
	FUS		9.23	160.4		[1996DOM/HEA, 1931DEE]
	V	(323–363)	36.4	298	CGC	[1995CHI/HOS]
	V	(340–370)	36.4	298		[1991BAS/SVO]
	V	(338–373)	34.6	353	A, EB	[1987STE/MAL, 1977SVO/MAJ]
	V		35.6 ± 0.1	322	C	[1977SVO/MAJ]
	V		34.9 ± 0.1	332	C	[1977SVO/MAJ]
	V		34.5 ± 0.1	339	C	[1977SVO/MAJ]
	V		33.7 ± 0.1	352	C	[1977SVO/MAJ]
	V		33.0 ± 0.1	366	C	[1977SVO/MAJ]
	V		36.6 ± 0.1	298	C	[1968WAD]
	V		36.7 ± 0.1	298	C	[1966WAD]
	V	(273–400)	37.5	288	A, EST	[1987STE/MAL, 1961LI/ROS, 1971DYK]
	V	(293–343)	33.5	308		[1929SMY/ENG, 1984BOU/FRI]
C_4H_9Br	[78-76-2]	2-bromobutane				
	FUS		6.88	160.3		[1991ACR, 1983WEA]
	V	(281–403)	33.9	296	A	[1987STE/MAL, 1971DYK]
	V		34.5 ± 0.1	298	C	[1968WAD]
	V		34.8 ± 0.1	298	C	[1966WAD]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound: Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_4H_9Br	[78-77-3]	1-bromo-2-methylpropane				
	V	(305–363)	34.1	320	A, EB	[1987STE/MAL, 1977SVO/MAJ]
	V		33.1 ± 0.1	330	C	[1977SVO/MAJ]
	V		32.6 ± 0.1	341	C	[1977SVO/MAJ]
	V		32.0 ± 0.1	353	C	[1977SVO/MAJ]
	V		31.4 ± 0.1	366	C	[1977SVO/MAJ]
	V	(281–404)	34.0	296	A	[1987STE/MAL, 1971DYK]
	V		34.9 ± 0.1	298	C	[1968WAD]
C_4H_9Br	[507-19-7]	2-bromo-2-methylpropane				
	TRS		5.85	209.3		
	TRS		0.96	231.8		
	FUS		Not given		DSC	[1986WEN/SCH]
	TRS		5.65	208.6		
	TRS		1.05	231.5		
	FUS		1.97	256.1	C	[1996DOM/HEA, 1950KUS/CRO]
	V	(248–346)	31.4	263	A	[1987STE/MAL]
	V	(270–345)	31.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(298–323)	31.5	313		[1969CAL/VAL]
	V		31.8 ± 0.1	298	C	[1968WAD]
	V	(273–346)	31.2	288		[1951BRY/HOW, 1984BOU/FRI]
C_4H_9BrO	[2482-57-7]	1-bromo-2-butanol				
	V	(296–418)	58.4	311	A	[1987STE/MAL, 1947STU]
C_4H_9Cl	[109-69-3]	1-chlorobutane				
	V	(260–350)	33.5	298		[1984BOU/FRI, 1991BAS/SVO]
	V		33.5 ± 0.1	298	C	[1981TEK/MAJ]
	V		32.7 ± 0.1	313	C	[1981TEK/MAJ]
	V		31.8 ± 0.1	328	C	[1981TEK/MAJ]
	V		30.9 ± 0.1	343	C	[1981TEK/MAJ]
	V		30.0 ± 0.1	358	C	[1981TEK/MAJ]
	V		29.4 ± 0.1	358	C	[1981TEK/MAJ]
	V	(256–352)	35.6	271	DTA	[1969KEM/KRE]
	V		33.5 ± 0.1	298	C	[1968WAD]
	V	(257–389)	35.0	272	A, EST	[1987STE/MAL, 1961LI/ROS, 1971DYK]
	V	(284–350)	33.8			[1933LEN]
	V	(293–343)	37.2	308		[1929SMY/ENG, 1984BOU/FRI]
C_4H_9Cl	[78-86-4]	2-chlorobutane				
	V	(315–341)	30.9	328	EB	[1996DAH/WIC]
	V	(266–377)	33.1	281	A	[1987STE/MAL]
	V		31.5 ± 0.1	298	C	[1981TEK/MAJ]
	V		30.7 ± 0.1	313	C	[1981TEK/MAJ]
	V		29.9 ± 0.1	328	C	[1981TEK/MAJ]
	V		29.1 ± 0.1	343	C	[1981TEK/MAJ]
	V		28.2 ± 0.1	358	C	[1981TEK/MAJ]
	V		31.6 ± 0.1	298	C	[1968WAD]
	V	(273–312)	31.8	288		[1928ROL, 1984BOU/FRI]
C_4H_9Cl	[513-36-0]	1-chloro-2-methylpropane				
	V	(219–342)	36.1	234	A	[1987STE/MAL, 1947STU]
	V		31.7 ± 0.1	298	C	[1968WAD]
C_4H_9Cl	[507-20-0]	2-chloro-2-methylpropane				
	TRS		2.08	183.6		
	TRS		5.75	219.8		
	FUS		1.89	247.8	DSC	[2000TAM/LOP]
	TRS	(11–300)	1.84	183.3		
	TRS	(11–300)	5.61	219.7		
	FUS	(11–300)	1.92	248.6	AC	[1999KOB/OGU]
	TRS		1.87	182.9		
	TRS		5.88	219.3		
	FUS		1.97	248.1		[1985DEA]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		1.86	183.1		
	TRS		5.66	219.4		
	FUS		1.99	248.4		[1972URB/JAN]
	TRS		1.87	182.9		
	TRS		5.88	219.3		
	FUS	(77–273)	2.07	247.5	AC	[1966DWO/GUI]
	TRS		1.71	183.2		
	TRS		5.82	219.7		
	FUS		2.01	248.2	C	[1950KUS/CRO]
	V	(313–353)	28.6	298	CGC	[1995CHI/HOS]
	V	(253–358)	32.3	268	A	[1987STE/MAL, 1971DYK]
	V	(295–323)	27.8	309	A	[1987STE/MAL, 1969CAL/VAL]
	V	(295–323)	27.0	310		[1969CAL/VAL, 1984BOU/FRI]
	V		29.0 ± 0.1	298	C	[1968WAD]
	V	(254–324)	29.1	269		[1947STU]
$C_4H_9ClO_2$	[628-89-7]	2-(2-chloroethoxy)ethanol				
	V	(326–469)	59.8	341	A	[1987STE/MAL, 1947STU]
$C_4H_9ClO_2S$	[2386-60-9]	butyl sulfonyl chloride				
	V	(283–373)	55.7	298		[1999DYK/SVO]
	V	(373–474)	52.9	388		[1999DYK/SVO]
	V	(253–283)	60.2	268	A	[1987STE/MAL, 1999DYK/SVO, 1963QUI/NOW]
C_4H_9ClS	[693-07-2]	ethyl (2-chloroethyl) sulfide				
	V	(293–333)	44.4	308	A, GS	[1987STE/MAL, 1948RED/CHA, 1971DYK]
C_4H_9F	[2366-52-1]	1-fluorobutane				
	V	(222–326)	30.1	237	A, EST	[1987STE/MAL, 1961LI/ROS, 1971DYK]
C_4H_9F	[359-01-3]	2-fluorobutane				
	V	(233–329)	29.2	248	A	[1987STE/MAL, 1971DYK]
C_4H_9F	[353-61-7]	2-fluoro-2-methylpropane				
	V	(222–315)	27.6	237	A	[1987STE/MAL, 1971DYK]
C_4H_9FO	[372-93-0]	4-fluoro-1-butanol				
	V	(323–343)	64.0	333	A	[1987STE/MAL]
C_4H_9I	[542-69-8]	1-iodobutane				
	V	(313–353)	40.3	298	CGC	[1995CHI/HOS]
	V	(313–353)	39.7	298	CGC	[1995CHI/HOS]
	V		40.6 ± 0.1	298	C	[1968WAD]
	V	(292–431)	39.9	307	A, EST	[1987STE/MAL, 1961LI/ROS, 1971DYK]
C_4H_9I	[513-48-4]	2-iodobutane				
	V	(313–353)	37.9	298	CGC	[1995CHI/HOS]
	V	(313–353)	38.8	298	CGC	[1995CHI/HOS]
	V		38.5 ± 0.1	298	C	[1968WAD]
C_4H_9I	[513-38-2]	1-iodo-2-methylpropane				
	V	(258–303)	38.8 ± 0.1	298	Static	[2010FUL/RUZ]
	V	(256–393)	41.1	271	A	[1987STE/MAL, 1947STU]
	V		38.8 ± 0.1	298	C	[1968WAD]
C_4H_9I	[558-17-8]	2-iodo-2-methylpropane				
	SUB	(202–223)	49.8	212.5	MG	[1987STE/MAL, 1944MIL2]
	V	(313–353)	37.0	298	CGC	[1995CHI/HOS]
	V	(236–294)	34.8	279	A	[1987STE/MAL, 1971DYK]
	V		35.4 ± 0.1	298	C	[1968WAD]
C_4H_9Li	[109-72-8]	butyl lithium				
	SUB	(333–368)	109.7	350.5	A	[1987STE/MAL, 1962LEB/MIR]
C_4H_9N	[123-75-1]	pyrrolidine				
	TRS		0.54	207.1		

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		8.58	215.3		[1996DOM/HEA, 1959HIL/SIN]
	V	(273–313)	38.4	288	A	[1987STE/MAL]
	V	(273–313)	37.6	298		[1968CAB/CON]
	V	(316–394)	35.8	331	EB, IPM	[1987STE/MAL, 1959MCC/DOU, 1968OSB/DOU]
	V		35.8 ± 0.1	322	C	[1959MCC/DOU]
	V		34.5 ± 0.1	340	C	[1959MCC/DOU]
	V		33.0 ± 0.1	360	C	[1959MCC/DOU]
	V	(294–360)	37.3	309		[1959HIL/SIN, 1984BOU/FRI]
C_4H_9NO	[96-29-7]	2-butanone oxime				
	V	(283–329)	58.6 ± 0.2	306	GS	[2009VER/EME4]
	V	(283–329)	59.1 ± 0.2	298	GS	[2009VER/EME4]
	V	(308–425)	53.7	323	A	[1987STE/MAL]
	V	(318–343)	55.5	330	A	[1987STE/MAL]
	V	(313–333)	57.2	323		[1975MES/BAE, 2009VER/EME4]
	V	(313–333)	57.7	298		[1975MES/BAE, 2009VER/EME4]
C_4H_9NO	[3376-35-0]	*O*-methyloxime acetone				
	V	(308–344)	37.0	323		[2013WAN/LI, 2013YE/DON]
C_4H_9NO	[625-50-3]	*N*-ethylacetamide				
	V	(361–423)	55.7	376		[1995SCH/PUS]
	V		64.9 ± 0.2	298	C	[1984STA/WAD]
C_4H_9NO	[110-69-0]	buyraldehyde oxime				
	V	(313–343)	55.8	328	A	[1987STE/MAL]
C_4H_9NO	[541-35-5]	butyramide				
	FUS		19.2	387.3	DSC	[2008ABA/BAD, 2000BRU/DEL]
	SUB	(288–354)	82 ± 4.0	298	TE	[2000BRU/DEL]
	SUB	(298–347)	82 ± 4.0	298	TE	[2000BRU/DEL]
	SUB		86.4 ± 0.4			[1975BAR/PIL, 1977PED/RYL]
	SUB	(292–304)	85.4 ± 1.7	298	ME	[1973LEB/KAT2, 1977PED/RYL]
	SUB	(353–373)	87	363		[1960JON]
	SUB	(336–382)	86.4 ± 0.4	359	GS	[1959DAV/JON2]
	SUB	(298–341)	87.0 ± 0.8	320	ME	[1959DAV/JON2]
	SUB		79.9			[1960THO]
	V		72.3 ± 2.4	298	CGC	[2013GUT/RAT]
	V	(397–504)	64	412	A	[1987STE/MAL]
C_4H_9NO	[563-83-7]	2-methylpropanamide				
	FUS		19.8	401.2	DSC	[2013GUT/RAT]
	FUS		19.2	400.1	DSC	[2008ABA/BAD]
	SUB		82			[2000BRU/DEL]
	SUB	(285–302)	86.1 ± 0.2	294	ME	[1989ABB/JIM]
	SUB		86.0 ± 0.2	298		[1989ABB/JIM]
	V		70.7 ± 2.9	298	CGC	[2013GUT/RAT]
C_4H_9NO	[127-19-5]	*N,N*-dimethylacetamide				
	FUS		10.2	254.2		[2007SMI/TSV]
	FUS		8.2	253.2	DSC	[2000LIS/JAM]
	FUS		10.42	251.4		[1999AHL/LOH]
	V	(463–513)	50.7 ± 0.7	298	CGC	[2009PAN/ANT]
	V	(298–423)	45.8	298		[2005NAS/NEU]
	V	(371–423)	45.1	386	A	[1987STE/MAL]
	V		50.2	298	A	[1985BAR/CAS, 1985MAJ/SVO]
	V		45.6 ± 2.0			[1978BEA/LEE]
	V	(297–438)	67.9	312		[1974MYA/SCH, 1984BOU/FRI]
	V		43.7	298	I	[1971SUN/EIS]
	V	(303–363)	45.2	318	A	[1987STE/MAL, 1968GOP/RIZ]
C_4H_9NO	[1187-58-2]	*N*-methylpropionamide				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(307–371)	64.0 ± 0.2	339	GS	[2009VER/EME4]
	V	(307–371)	66.6 ± 0.2	298	GS	[2009VER/EME4]
	V	(368–473)	66.9 ± 1.3	298	EB, BG	[1998MOR/KOP]
	V	(368–473)	64.0 ± 0.3	420	EB, BG	[1998MOR/KOP]
	V	(361–414)	54.2	376		[1995SCH/PUS]
	V		64.9 ± 0.3	298	C	[1984STA/WAD]
	V	(303–363)	54.4	318	A	[1987STE/MAL, 1968GOP/RIZ]
	V	(381–480)	56.6 ± 0.2	431	EB	[1983VAS, 2009VER/EME4]
	V	(381–480)	63.9 ± 0.2	431	EB	[1983VAS, 2009VER/EME4]
C_4H_9NO	[110-91-8]	morpholine				
	V		46.5 ± 0.4	298	C	[2014FRE/GOM2]
	V		45.3 ± 0.5	298	DSC	[2005ROJ/GIN]
	V	(308–393)	42.9	323		[2005LEE/SU]
	V	(274–303)	45.6 ± 0.4	288	GS	[1998VER2]
	V	(274–303)	45.0 ± 0.4	298	GS	[1998VER2]
	V	(346–401)	40.8	361		[1991WU/LOC]
	V	(313–343)	44.3	328	TGA	[1987ALN/ALS]
	V	(273–318)	45.3	288	A	[1987STE/MAL, 1975CAB/CON]
	V	(273–318)	44.5 ± 0.1	298		[1975CAB/CON, 1998VER2]
	V	(317–443)	42.3	332	A	[1987STE/MAL]
	V	(318–401)	42.3	333	EB	[1983PAL/CHO]
	V		39.8			[1947BOL/COL]
C_4H_9NO	[3619-34-9]	*N*-methylimidoacetate				
	V		42.7 ± 2.1			[1978BEA/LEE]
$C_4H_9NO_2$	[2835-81-6]	(*dl*)-2-aminobutyric acid				
	TRS		0.67	233	DSC	[2012GOR/ALE]
	SUB		132 ± 2	409	TE, ME	[1979DEK/VOO]
	SUB	(400–418)	132	409	A	[1987STE/MAL]
$C_4H_9NO_2$	[1492-24-6]	S 2-aminobutyric acid				
	SUB	(449–462)	162.8 ± 0.8	455	ME	[1965SVE/CLY, 1964CLY/SVE]
	SUB	(449–462)	162.5	455	A	[1987STE/MAL, 1965SVE/CLY]
$C_4H_9NO_2$	[62-57-7]	2-aminoisobutyric acid				
	SUB	(439–462)	125.8	450.5	A	[1987STE/MAL, 1965SVE/CLY]
	SUB	(403–424)	134.2	413.5	A	[1987STE/MAL]
	SUB	(439–462)	125.9 ± 0.4	455	ME	[1965SVE/CLY, 1964CLY/SVE]
$C_4H_9NO_2$	[56-12-2]	4-aminobutanoic acid				
	FUS		35.41	463.8	DSC	[2010YAN/LEI]
	SUB	(460–475)	139 ± 4			[2009LEG/BAC]
	SUB	(384–407)	138.9 ± 0.6	395	C	[1983SKO/SAB]
	SUB		140 ± 2	298	C	[1983SKO/SAB]
	V	(493–500)	87 ± 2			[2009LEG/BAC]
$C_4H_9NO_2$	[924-43-6]	*sec*-butyl nitrite				
	V	(267–287)	29.6	277	A	[1987STE/MAL, 1937THO/DAI]
$C_4H_9NO_2$	[540-80-7]	*tert*-butyl nitrite				
	V	(267–337)	30.8	282	A	[1987STE/MAL, 1937THO/DAI]
$C_4H_9NO_2$	[51676-15-4]	lactic acid *N*-methyl amide				
	V	(359–415)	72.7	374	A	[1987STE/MAL, 1950RAT]
$C_4H_9NO_2$	[105-40-8]	*N*-methyl carbamic acid, ethyl ester				
	V	(299–443)	51.7	314	A	[1987STE/MAL, 1947STU]
$C_4H_9NO_2$	[625-74-1]	2-methyl-1-nitropropane				
	V	(347–415)	41.1	362	A, EB	[1987STE/MAL, 1956TOO, 1971DYK]
$C_4H_9NO_2$	[594-70-7]	2-methyl-2-nitropropane				
	TRS		4.34	216.4		

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		4.64	260.0		
	FUS		2.56	298.5	DSC	[1999SAL/LOP]
	TRS		4.2	215.3		
	TRS		4.7	260.1		
	FUS		2.6	299.2		[1997REU/BUS, 1975URB/TOM]
	V		42.7 ± 0.4	298	C	[2011MIR/KON]
	V	(334–401)	39.1	349	EB	[1987STE/MAL, 1956TOO, 1971DYK]
$C_4H_9NO_2$	[627-05-4]	1-nitrobutane				
	V		48.1 ± 0.4	298	C	[2011MIR/KON]
	V	(313–353)	47.0	298	CGC	[1995CHI/HOS]
	V	(357–426)	42.7	372	A, EB	[1987STE/MAL, 1956TOO, 1971DYK]
	V	(283–423)	48.5 ± 0.5	298	ZG	[1949HOL/DOR]
$C_4H_9NO_2$	[600-24-8]	(*dl*)-2-nitrobutane				
	V		46.4 ± 0.8	298	C	[2011MIR/KON]
	V	(345–413)	40.3	360	A, EB	[1987STE/MAL, 1956TOO, 1971DYK]
	V	(323–383)	43.8 ± 0.4	298	ZG	[1949HOL/DOR]
$C_4H_9NO_2$	[627-12-3]	propyl carbamate				
	V	(325–468)	61.6	340	A	[1987STE/MAL, 1947STU]
$C_4H_9NO_3$	[928-45-0]	butyl nitrate				
	V	(273–343)	44.1	288	A	[1987STE/MAL, 1971DYK, 1957GRA/PRA]
$C_4H_9NO_3$	[543-29-3]	isobutyl nitrate				
	V	(273–343)	42.8	288	A	[1987STE/MAL, 1971DYK, 1957GRA/PRA]
$C_4H_9NO_3$	[80-68-2]	(*dl*)-threonine				
	SUB	(341–441)	U 96 ± 8	391	LE	[1977GAF/PIE]
$C_4H_9NO_3$	[76-39-1]	2-methyl-2-nitro-1-propanol				
	TRS		14.64	311.5		
	FUS		3.17	363.9	DSC	[1999SAL/LOP]
	TRS		17.2	310		
	FUS		3.74	361	DSC	[1996DOM/HEA, 1970MUR/BRE]
	TRS		15.0	312		
	FUS		3.3	364	DSC	[1995BAR/LOP]
	SUB (cryst)	(293–309)	78 ± 1			[1995FON/MUN]
	SUB (plastic)	(319–333)	64 ± 2			[1995FON/MUN]
	SUB (plastic)		59.5 ± 3.0	319	C	[1994FON/MUN]
	SUB (cryst)		73.2 ± 3.7	311	C	[1994FON/MUN]
$C_4H_9NO_4$	[77-49-6]	2-methyl-2-nitro-1,3-propanediol				
	TRS		25.72	352		
	FUS		3.84	424	DSC	[1996DOM/HEA, 1970MUR/BRE]
	SUB (cryst)	(330–349)	98 ± 4			[1995FON/MUN]
	SUB (plastic)	(361–382)	74 ± 5			[1995FON/MUN]
	SUB (plastic)		79.3 ± 4.0	368	C	[1994FON/MUN]
	SUB (cryst)		102.0 ± 5.1	339	C	[1994FON/MUN]
$C_4H_9NO_5$	[126-11-4]	2-hydroxymethyl-2-nitro-1,3-propanediol				
	SUB (cryst)	(332–347)	107 ± 10			[1995FON/MUN]
	SUB (plastic)	(354–378)	76 ± 8			[1995FON/MUN]
	SUB (plastic)		77.3 ± 3.9	368	C	[1994FON/MUN]
C_4H_9NS	[123-90-0]	thiomorpholine				
	V		54.0 ± 1.5	298	C	[2014FRE/GOM2]
$C_4H_9N_3O_2$		bis(nitrosoethyl)amine				
	V	(291–450)	46.4	306	A	[1987STE/MAL]
$C_4H_9N_3O_2$	[216489-98-4]	1-[2-(ethenyloxy)ethyl]-1-nitrosohydrazine				
	SUB		112.1 ± 1.9	298		[1998LEB/CHI]
C_4H_9ONa	[865-48-5]	sodium *tert*-butoxide				

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		NA			[1990VOR/ZVE]
$C_4H_9O_2PS_2$	[695-68-1]	2-mercapto-4,5-dimethyl-1,3,2-dioxaphospholane-2-sulfide				
	V		66	298		[2008SAG/SAF]
C_4H_9P	[6617-97-6]	ally(methyl)phosphine				
	V	(242–291)	34.4	276	A	[1987STE/MAL, 1966WAG/WIL]
C_4H_9P	[114596-01-9]	3-butenylphosphine				
	V	(252–295)	34.5	273		[1988SHA/DIE]
C_4H_9P	[89123-47-7]	dimethylvinylphosphine				
	V	(273–291)	32.4	282		[1959KAE/STO]
C_4H_9P	[3466-00-0]	phospholane				
	V	(257–347)	37.4	272	A	[1987STE/MAL, 1960BUR/SLO]
C_4H_{10}	[106-97-8]	butane				
	TRS		2.05	107.6		
	FUS		4.66	134.9		[1996DOM/HEA, 1940AST/MES]
	TRS		2.12	107.0		
	FUS		4.37	134.1	C	[1931HUF/PAR]
	SUB		35.9	107	B	[1966GEI/QUI]
	V	(300–315)	22.9	308		[1997SAK/HOR]
	V	(195–292)	23.4	277	A	[1987STE/MAL]
	V	(273–321)	23.2	288	A	[1987STE/MAL]
	V	(316–383)	22.6	331	A	[1987STE/MAL]
	V	(375–425)	22.8	390	A	[1987STE/MAL]
	V	(135–213)	27.0	198	A	[1987STE/MAL, 1973CAR/KOB]
	V		22.4	298		[1971WIL/ZWO]
	V	(206–279)	23.1	264		[1945WAC/LIN, 1984BOU/FRI]
	V	(195–273)	23.9	258		[1940AST/MES, 1984BOU/FRI]
C_4H_{10}	[75-28-5]	2-methylpropane (isobutane)				
	FUS		4.49	113.7	AC	[2009PER/MAG]
	FUS		4.56	113.7		[1996DOM/HEA, 1940AST/KEN]
	FUS		4.50	113.2		[1937PAR/SHO]
	V	(303–333)	21.5	318		[1999LIM/PAR]
	V	(186–280)	22.4	265	A	[1987STE/MAL]
	V	(121–187)	26.9	172	A	[1987STE/MAL]
	V	(263–306)	21.9	278	A	[1987STE/MAL]
	V	(301–366)	21.4	316	A	[1987STE/MAL]
	V	(361–408)	21.6	376	A	[1987STE/MAL]
	V	(277–344)	21.6	292		[1976STE/POL, 1984BOU/FRI]
	V		21.3	286		[1971WIL/ZWO]
	V	(188–262)	22.6	247		[1940AST/KEN, 1984BOU/FRI]
$C_4H_{10}F_3NOS$	[26458-94-6]	(diethylaminato)trifluorooxosulfur				
	V	(329–354)	49.5	341	A	[1987STE/MAL, 1999DYK/SVO, 1970VON/GLE2]
$C_4H_{10}F_3NS$	[38078-09-0]	(*N*-ethylethaneaminato)trifluoro sulfur				
	V	(318–340)	45.2	329	A	[1987STE/MAL, 1999DYK/SVO, 1970VON/GLE2]
$C_4H_{10}N_2$	[110-85-0]	piperazine				
	FUS		26.7	384.6	DSC	[1997STE/CHI4]
	FUS		22.1	381.8	DSC	[1997LEE/CHA]
	FUS		22.1	384.6	CR	[1954WIT]
	SUB		72.1	298		[1998VER2]
	SUB		65.2	385	B	[1997STE/CHI4]
	SUB	(279–321)	73.1	294		[1987STE/MAL, 1975CAB/CON]
	V	(417–460)	50.1 ± 1.9	298	EB	[1997STE/CHI4]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(417–460)	42.1 ± 0.3	400	EB	[1997STE/CHI4]
	V	(417–460)	38.9 ± 0.4	440	EB	[1997STE/CHI4]
$C_4H_{10}N_2$	[28871-28-5]	trimethylammonium cyanide				
	SUB	(219–236)	45.0	227.5		[1987STE/MAL]
$C_4H_{10}N_2O$	[927-67-3]	*N*-propylurea				
	TRS		2.4	291.3		
	FUS		11.9	370.2	DSC	[2005HAS/TAJ]
	TRS		3.0	289.6		
	FUS		14.92	383	DSC	[1995FER/DEL]
	FUS		14.63	381	DSC	[1991ACR, 1987DEL/FER]
	SUB	(333–357)	101.4 ± 0.6	298	GS	[2006EME/KAB]
	SUB	(332–373)	90.7 ± 1.0	366		[1990PIA/FER, 1987FER/DEL2]
$C_4H_{10}N_2O$	[691-60-1]	*N*-isopropylurea				
	TRS		1.41	280.8	AC	[1990KAB/MIR2]
	TRS		2.31	375.5		
	FUS		17.4	427.4	DSC	[1987DEL/FER]
	SUB	(333–372)	96.7 ± 1.6	353	ME	[2003ZAI/KAB]
	SUB	(333–372)	96.8 ± 1.6	350	ME	[2003ZAI/KAB]
	SUB		97.2 ± 0.6	350	C	[2003ZAI/KAB]
	SUB		98.1 ± 0.6	298		[2003ZAI/KAB]
	SUB		100.6 ± 1.3	389		[1990PIA/FER]
$C_4H_{10}N_2O$	[632-14-4]	1,1,3-trimethylurea				
	FUS		14.3	344.4	DSC	[1991ACR, 1987DEL/FER]
	V	(345–375)	89.7 ± 1.2	360		[1990PIA/FER]
$C_4H_{10}N_2O_2$	[7119-92-8]	diethylnitramine				
	V		47.3 ± 0.8	298	C	[2009MIR/KON]
	V	(338–378)	49.7	358		[1958CAS/FLE]
$C_4H_{10}N_2S$	[2489-77-2]	1,1,3-trimethylthiourea				
	FUS (I)		17.3	358.3		
	FUS (II)		19.3	357.1	DSC	[2013NAT/JES]
$C_4H_{10}N_4O_4$	[4164-34-5]	*N,N′*-dimethyl-*N,N′*-dinitro-1,2-ethanediamine				
	FUS		60.32	410	DTA	[1987OYU/BRI]
	SUB		110.9 ± 1.3	298	C	[2009MIR/KON]
[Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
$C_4H_{10}N_4O_4$	[168983-72-0]	*N*-ethyl-*N′*-methyl-*N,N′*-dinitromethanediamine				
	FUS		19.28	304.4	DSC	[2010FAR/RAJ]
	FUS		19.28	304.8	DSC	[2003SPI/WAN]
$C_4H_{10}N_6O_6$	[13126-25-5]	2,4,6-trinitro-2,4,6-triazaheptane				
	FUS		34.01	442.4	DSC	[1997ZEM]
$C_4H_{10}O$	[71-36-3]	1-butanol				
	FUS		9.28	183.9		[1991ACR, 1925PAR]
	V	(313–393)	50.9 ± 0.1	298		[2012ZAI/NEG]
	V	(298–363)	48.4	298		[2004NAS/ZIM]
	V	(357–389)	46.0	372	EB	[2001MUN/KRA]
	V		38.2	423		[2000WOR/FEN]
	V		29.6	473		[2000WOR/FEN]
	V		20.8	523		[2000WOR/FEN]
	V		44.1			[1999FAT]
	V	(323–373)	52.5	298	CGC	[1995CHI/HOS]
	V	(315–390)	49.9	330		[1995DEJ/BUR]
	V	(364–403)	45.3	379		[1993SUS/ORT2]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(283–323)	55.2	298		[1992GRA/SAN]
	V	(376–399)	45.3	387	A	[1987STE/MAL]
	V	(323–413)	50.1	338	A	[1987STE/MAL]
	V	(413–550)	41.9	428	A	[1987STE/MAL]
	V	(209–251)	51.6	236	A	[1987STE/MAL]
	V	(376–397)	45.4	386	A	[1987STE/MAL]
	V	(391–429)	43.8	406	A	[1987STE/MAL]
	V	(415–501)	41.9	430	A	[1987STE/MAL]
	V	(497–563)	37.4	512	A	[1987STE/MAL]
	V	(243–303)	51.7	298		[1983SCH/STR]
	V	(329–391)	49.0	344		[1982SAC/PES]
	V		52.1	298	C	[1982FUC/PEA]
	V	(288–404)	55.0	303		[1973WIL/ZWO]
	V		49.5 ± 0.1	333	C	[1973SVO/VES]
	V		48.6 ± 0.1	343	C	[1973SVO/VES]
	V		47.5 ± 0.1	353	C	[1973SVO/VES]
	V		46.4 ± 0.1	363	C	[1973SVO/VES]
	V		52.34 ± 0.02	298	C	[1971POL/BEN]
	V		51.6 ± 0.1	308	C	[1971POL/BEN]
	V		51.0 ± 0.1	318	C	[1971POL/BEN]
	V		49.8 ± 0.1	328	C	[1971POL/BEN]
	V	(351–397)	47.2	366	EB	[1987STE/MAL, 1970AMB/SPR]
	V	(295–391)	53.0	310	DTA	[1969KEM/KRE]
	V		52.3 ± 0.1	298	C	[1966WAD]
	V		47.2 ± 0.1	356	C	[1965COU/HAL]
	V		45.4 ± 0.1	381	C	[1965COU/HAL]
	V		43.1 ± 0.1	391	C	[1965COU/HAL]
	V	(419–563)	42.1	434		[1963AMB/TOW]
	V	(362–398)	46.6	377	EB	[1963BID/COL]
	V		51.0 ± 0.1	298	C	[1963MCC/LAI]
	V	(337–390)	48.3	352		[1959BRO/SMI, 1984BOU/FRI]
	V	(314–390)	48.3	352		[1898KAH, 1984BOU/FRI]
$C_4H_{10}O$	[78-92-2]	2-butanol				
	FUS		5.97	184.7		[1971AND/CON]
	V	(358–372)	44.2	360		[2012LAA/ZAI]
	V	(313–393)	48.1 ± 0.1	298		[2012ZAI/NEG]
	V	(315–371)	48.8	330	EB	[2009GIE/KOS]
	V	(320–379)	46.2	335		[2009MAR/LLA]
	V	(298–563)	46.2	298		[2004NAS/ZIM]
	V	(306–373)	47.7	321		[1995DEJ/BUR]
	V	(303–403)	49.3	318	A	[1987STE/MAL]
	V	(359–381)	43.2	370	A	[1987STE/MAL]
	V	(372–524)	47.9	387	A	[1987STE/MAL]
	V	(210–303)	57.5	225	A	[1987STE/MAL]
	V	(359–380)	43.2	369	A	[1987STE/MAL]
	V	(368–404)	42.0	383	A	[1987STE/MAL]
	V	(395–485)	39.6	410	A	[1987STE/MAL]
	V	(476–536)	35.0	491	A	[1987STE/MAL]
	V	(307–373)	47.8	322		[1982SAC/PES]
	V	(293–380)	53.2	308		[1978CAV/CHA]
	V	(319–372)	44.1	334		[1975BRA/AND]
	V	(280–314)	50.2	295		[1975CAB/CON2]
	V	(298–393)	48.1	313		[1973WIL/ZWO]
	V		49.74 ± 0.02	298	C	[1971POL/BEN]
	V		48.8 ± 0.1	308	C	[1971POL/BEN]
	V		47.9 ± 0.1	318	C	[1971POL/BEN]
	V		46.1 ± 0.1	328	C	[1971POL/BEN]
	V	(323–373)	46.3	338		[1969BRO/FOC, 1984BOU/FRI]
	V		49.7 ± 0.1	298	C	[1966WAD]
	V	(422–538)	38.4	437		[1963AMB/TOW]
	V	(345–381)	44.1	360	EB	[1963BID/COL]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		48.5	298	C	[1963MCC/LAI]
	V	(340–379)	44.7	355	EB	[1987STE/MAL, 1962BER/MCK, 1970AMB/SPR]
	V		45.3 ± 0.1	340	C	[1962BER/MCK]
	V		43.3 ± 0.1	355	C	[1962BER/MCK]
	V		41.9 ± 0.1	365	C	[1962BER/MCK]
	V		40.8 ± 0.1	372	C	[1962BER/MCK]
$C_4H_{10}O$	[4221-99-2]	(+)-2-butanol				
	FUS		6.0	177.4		[1971AND/CON]
$C_4H_{10}O$	[78-83-1]	2-methyl-1-propanol				
	FUS		6.32	171.2		[1968COU/LEE]
	V	(350–400)	48.8	298		[1999ORT/HER]
	V	(350–400)	45.4	365	EB	[1993SUS/ORT]
	V	(313–411)	49.5	328	A	[1987STE/MAL]
	V	(381–524)	46.0	396	A	[1987STE/MAL]
	V	(202–243)	55.0	228	A	[1987STE/MAL]
	V	(369–389)	44.2	379	A	[1987STE/MAL]
	V	(383–416)	42.6	398	A	[1987STE/MAL]
	V	(401–493)	41.1	416	A	[1987STE/MAL]
	V	(483–548)	36.2	498	A	[1987STE/MAL]
	V		50.8 ± 0.1	298	C	[1984MAJ/SVO]
	V		49.7 ± 0.1	313	C	[1984MAJ/SVO]
	V		48.3 ± 0.1	328	C	[1984MAJ/SVO]
	V		45.0 ± 0.1	358	C	[1984MAJ/SVO]
	V	(320–382)	48.1	335		[1982SAC/PES]
	V	(293–388)	52.6	308		[1973WIL/ZWO]
	V		50.79 ± 0.02	298	C	[1971POL/BEN]
	V		50.1 ± 0.1	308	C	[1971POL/BEN]
	V		49.3 ± 0.1	318	C	[1971POL/BEN]
	V		47.9 ± 0.1	328	C	[1971POL/BEN]
	V		46.2 ± 0.1	347	C	[1970COU/FEN]
	V		44.2 ± 0.1	363	C	[1970COU/FEN]
	V		41.9 ± 0.1	381	C	[1970COU/FEN]
	V	(342–389)	46.2	357	A, EB	[1987STE/MAL, 1970AMB/SPR]
	V	(333–381)	47.0	348		[1969BRO/FOC, 1984BOU/FRI]
	V		50.8 ± 0.1	298	C	[1966WAD]
	V	(423–548)	40.1	438		[1963AMB/TOW]
	V	(353–388)	45.2	368	EB	[1963BID/COL]
	V		49.8	298	C	[1963MCC/LAI]
$C_4H_{10}O$	[75-65-0]	2-methyl-2-propanol				
	FUS		6.42	295.1	DSC	[2011BOG/DAO]
	TRS	(15–330)	0.83	286.1		
	TRS	(15–330)	0.49	294.5		
	FUS	(15–330)	6.7	299.0	AC	[1996DOM/HEA, 1963OET]
	FUS		6.78	298.5		[1996DOM/HEA, 1926PAR/AND]
	SUB		51.5			[2011BOG/DAO]
	SUB	(253–298)	51.3	275	A	[1947STU]
	V		45.0			[2011BOG/DAO]
	V	(306–355)	47.4	298	EB	[2007MAL]
	V	(323–368)	42.7	338		[2003ORT/ESP]
	V	(321–359)	43.4	336		[1999AUC/LOR]
	V	(323–373)	45.4	298	CGC	[1995CHI/HOS]
	V	(299–375)	46.2	314	A	[1987STE/MAL]
	V	(347–363)	41.4	355	A	[1987STE/MAL]
	V	(356–480)	43.2	371	A	[1987STE/MAL]
	V	(347–363)	41.4	355	A	[1987STE/MAL]
	V	(357–461)	39.8	372	A	[1987STE/MAL]
	V	(453–506)	33.6	468	A	[1987STE/MAL]
	V		46.2 ± 0.1	303	C	[1984MAJ/SVO]
	V		44.9 ± 0.1	313	C	[1984MAJ/SVO]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		43.0 ± 0.1	328	C	[1984MAJ/SVO]
	V		41.0 ± 0.1	343	C	[1984MAJ/SVO]
	V		37.2 ± 0.1	368	C	[1984MAJ/SVO]
	V	(306–357)	44.7	321		[1982SAC/PES]
	V	(293–376)	46.5	308		[1973WIL/ZWO]
	V		46.94 ± 0.02	298	C	[1971POL/BEN]
	V		45.8 ± 0.1	308	C	[1971POL/BEN]
	V		44.6 ± 0.1	318	C	[1971POL/BEN]
	V		42.7 ± 0.1	328	C	[1971POL/BEN]
	V	(313–355)	44.2	328		[1969BRO/FOC, 1984BOU/FRI]
	V		46.6 ± 0.1	298	C	[1966WAD]
	V	(333–363)	42.1	348	EB	[1963BEN/MCK]
	V		42.5 ± 0.1	330	C	[1963BEN/MCK]
	V		41.3 ± 0.1	340	C	[1963BEN/MCK]
	V		40.4 ± 0.1	346	C	[1963BEN/MCK]
	V		40.0 ± 0.1	349	C	[1963BEN/MCK]
	V		39.0 ± 0.1	356	C	[1963BEN/MCK]
	V	(329–363)	42.6	344	EB	[1987STE/MAL, 1970AMB/SPR, 1963BEN/MCK]
	V		44.9	298	C	[1963MCC/LAI]
	V	(373–506)	38.7	388		[1963AMB/TOW]
	V	(293–363)	44.7	323		[1928PAR/BAR]
$C_4H_{10}O$	[60-29-7]	diethyl ether				
	FUS		7.19	156.9		[1971COU/LEE]
	V	(298–317)	28.0 ± 0.4		I	[2010GER/PEL]
	V	(286–329)	28.1	301	A	[1987STE/MAL]
	V	(307–457)	26.9	322	A	[1987STE/MAL]
	V	(305–360)	27.5	320	A	[1987STE/MAL]
	V	(351–420)	26,6	366	A	[1987STE/MAL]
	V	(417–467)	26.7	432	A	[1987STE/MAL]
	V		27.1 ± 0.1	298	C	[1980MAJ/WAG]
	V		26.1 ± 0.1	313	C	[1980MAJ/WAG]
	V	(250–329)	27.2	298		[1976AMB/ELL]
	V	(250–329)	29.5	265	A	[1987STE/MAL, 1972AMB/SPR, 1976AMB/ELL]
	V	(213–293)	28.4	278		[1922TAY/SMI]
$C_4H_{10}O$	[598-53-8]	isopropyl methyl ether				
	FUS	(13–311)	5.85	127.3	AC	[1996DOM/HEA, 1975AND/MAR]
	V	(250–325)	28.8	265	A	[1987STE/MAL]
	V		26.4 ± 0.1	298	C	[1980MAJ/WAG]
	V		25.5 ± 0.1	313	C	[1980MAJ/WAG]
	V	(260–325)	28.4	275	A	[1987STE/MAL, 1976AMB/ELL]
	V		26.4	298		[1976AMB/ELL]
$C_4H_{10}O$	[557-17-5]	methyl propyl ether				
	FUS	(16–308)	7.67	134	AC	[1996DOM/HEA, 1975AND/MAR]
	V	(325–407)	27.2	340	A	[1987STE/MAL]
	V	(401–476)	26.7	416	A	[1987STE/MAL]
	V		27.6 ± 0.1	298	C	[1980MAJ/WAG]
	V		26.7 ± 0.1	313	C	[1980MAJ/WAG]
	V		25.8 ± 0.1	328	C	[1980MAJ/WAG]
	V	(253–328)	29.7	268	A	[1987STE/MAL, 1976AMB/ELL]
	V		27.5	298		[1976AMB/ELL]
	V		27.9 ± 0.2	298	C	[1975FEN/HAR]
	V	(273–321)	30.7	288	A	[1987STE/MAL, 1969KUD/REE]
	V	(273–312)	29.7	288		[1910BIN, 1984BOU/FRI]
$C_4H_{10}OS$	[70-29-1]	diethyl sulfoxide				
	V	(298–318)	58.7 ± 3.3	308		[2005MAR/ZAT]
$C_4H_{10}O_2$	[26171-83-5]	(±)-1,2-butanediol				
	V	(283–332)	70.4 ± 0.3	298	GS	[2004VER2]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		73.3 ± 0.4	298	C	[2003EUS/LOP]
	V	(372–506)	71.6 ± 0.8	298	EB	[1996STE/CHI]
	V	(372–506)	51.46 ± 0.4	360	EB	[1996STE/CHI]
	V	(372–506)	48.9 ± 0.4	400	EB	[1996STE/CHI]
	V	(372–506)	46.3 ± 0.4	440	EB	[1996STE/CHI]
	V	(372–506)	43.6 ± 0.4	480	EB	[1996STE/CHI]
	V	(372–506)	40.7 ± 0.5	520	EB	[1996STE/CHI]
$C_4H_{10}O_2$	[107-88-0]	(±)-1,3-butanediol				
	V	(288–332)	72.6 ± 0.3	298	GS	[2007VER]
	V		72.8 ± 0.6	298	C	[2003EUS/LOP]
	V	(365–518)	74.5 ± 1.0	298	EB	[1996STE/CHI]
	V	(365–518)	72.3 ± 0.8	320	EB	[1996STE/CHI]
	V	(365–518)	68.3 ± 0.7	360	EB	[1996STE/CHI]
	V	(365–518)	64.1 ± 0.6	400	EB	[1996STE/CHI]
	V	(365–518)	59.5 ± 0.5	440	EB	[1996STE/CHI]
	V	(365–518)	54.4 ± 0.6	480	EB	[1996STE/CHI]
	V	(362–483)	67.6	377	A	[1987STE/MAL]
	V	(373–423)	59.7	398		[1935SCH/STA]
	V	(423–480)	58.1	451		[1935SCH/STA]
$C_4H_{10}O_2$	[6290-03-5]	(*R*)-1,3-butanediol				
	V		72.3 ± 0.7	298	C	[2003EUS/LOP]
$C_4H_{10}O_2$	[110-63-4]	1,4-butanediol				
	FUS		17.48	294.2	DSC	[2015SOL/ROD]
	FUS	(103–303)	18.1	292.6	DSC	[2010MAR/JES]
	FUS	(103–303)	17.0	289	DSC	[2010MAR/JES]
	FUS		12.0	289.9	DTA	[1990KNA/SAB]
	FUS		18.7	293.6		[1996DOM/HEA, 1979NIS/BAB]
	V		77.1 ± 0.6	298	CGC	[2006UMN/KWE]
	V	(330–363)	79.0 ± 0.9	298	GS	[2005VAS/VER]
	V		78.3 ± 0.3	298	C	[2003EUS/LOP]
	V		79.3 ± 0.5	298	C	[1988KNA/SAB, 1990KNA/SAB2]
	V	(380–510)	72.0	395	A	[1987STE/MAL]
	V	(416–501)	76.1 ± 0.5	298	EB	[1984PAL/CHO, 2005VAS/VER]
	V	(419–490)	76.6 ± 1.7	298		[1972GAR/HUS, 2003EUS/LOP]
$C_4H_{10}O_2$	[513-85-9]	(*dl*)-2,3-butanediol				
	V	(348–457)	62.5	363	A	[1987STE/MAL]
	V	(317–455)	58.4	332		[1947STU]
	V	(353–403)	57.9	378		[1935SCH/STA]
	V	(303–456)	55.7	380		[1935SCH/STA]
$C_4H_{10}O_2$	[5341-95-7]	*meso*-2,3-butanediol				
	FUS		10.8	306.6	DSC	[2003EUS/LOP]
	V		66.6 ± 0.4	298	C	[2003EUS/LOP]
	V	(413–453)	54.6	433		[1946KNO/SCH]
$C_4H_{10}O_2$	[24347-58-8]	*levo* 2,3-butanediol				
	V	(413–453)	52.6	433		[1946KNO/SCH]
$C_4H_{10}O_2$	[19132-06-0]	(*S,S*) 2,3-butanediol				
	FUS	(103–303)	11.6	291.3	DSC	[2010MAR/JES]
	V		63.2 ± 0.7	298	C	[2003EUS/LOP]
$C_4H_{10}O_2$	[2163-42-0]	2-methyl-1,3-propanediol				
	V	(297–375)	73.6 ± 0.2	298	GS	[2007VER]
	V	(488–708)	71.3 ± 0.5	298		[2002WIL/VON, 2007VER]
$C_4H_{10}O_2$	[628-37-5]	diethylperoxide				
	V	(253–333)	29.0	268	A	[1987STE/MAL, 1951EGE/EMT, 1971DYK]
$C_4H_{10}O_2$	[534-15-6]	1,1-dimethoxyethane				
	V		36.4 ± 0.1	298	C	[1970KUS/WAD]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–333)	33.4	288	A	[1987STE/MAL, 1949NIC/LAF, 1971DYK]
$C_4H_{10}O_2$	[110-71-4]	1,2-dimethoxyethane				
	V	(304–358)	34.5		EB	[2009LI/FAN]
	V	(305–392)	36.8 ± 0.2	298	EB	[1996STE/CHI2]
	V	(238–298)	39.4	253	A	[1987STE/MAL]
	V	(238–363)	39.1	253	A	[1987STE/MAL]
	V	(225–366)	33.9	240		[1947STU]
$C_4H_{10}O_2$	[110-80-5]	2-ethoxyethanol				
	V	(388–407)	44.3	398	EB	[2012RAN/BHA]
	V	(374–406)	46.9	298	EB	[2012RED/KUM]
	V	(310–385)	47.4	325	EB	[2001CHY/FRA]
	V	(313–353)	49.4	298	EB	[1999ANT/FRA]
	V	(313–363)	50.0	298	EB	[1999ANT/FRA]
	V	(323–353)	45.9	338	TGA	[1987ALN/ALS]
	V		48.2 ± 0.1	298	C	[1971KUS/WAD]
	V		49.2	298	I	[1971SUN/EIS]
	V	(333–341)	46.7	337		[1968GAR/BOV]
	V	(336–408)	44.7	351	A	[1987STE/MAL, 1956PIC/FRI]
$C_4H_{10}O_2$	[107-98-2]	1-methoxy-2-propanol				
	V	(331–373)	46.2	298	EB	[2004ANT/GAL]
	V	(347–378)	46.4	298	EB	[2004CHY/FRA2]
$C_4H_{10}O_2S$	[111-48-8]	bis(2-hydroxyethyl) sulfide				
	V	(298–521)	86.8	298	DSC, GS	[2014BRO/TEV]
	V	(368–483)	U27.1	383	A	[1987STE/MAL]
	V	(315–558)	U28.3	330		[1947STU]
[Note: Authors of [2014BRO/TEV] noted that abnormally low enthalpies of vaporization are calculated from the earlier vapor pressure data.]						
$C_4H_{10}O_2S$	[597-35-3]	diethyl sulfone				
	SUB		86.2 ± 2.5			[UR/MAC, 1970COX/PIL]
$C_4H_{10}O_2S_2$	[21884-56-0]	*meso*-1,2-bis(methylsufinyl)ethane				
	FUS		34.31	446.7	DSC	[2001CAL/MEL]
$C_4H_{10}O_2S_2$		racemic 1,2-bis(methylsufinyl)ethane				
	FUS		22.18	405.4	DSC	[2001CAL/MEL]
[Note: The enthalpy and entropy of fusion values given in the paper are not consistent.]						
$C_4H_{10}O_3$	[111-46-6]	diethylene glycol				
	V	(410–539)	66.9 ± 0.3	420	EB	[2002STE/CHI2]
	V	(410–539)	63.1 ± 0.3	460	EB	[2002STE/CHI2]
	V	(410–539)	59.2 ± 0.3	500	EB	[2002STE/CHI2]
	V	(410–539)	55.1 ± 0.5	540	EB	[2002STE/CHI2]
	V	(373–453)	66.5	413	TGA	[1987ALN/ALS]
	V	(364–518)	59.8	379	A	[1987STE/MAL]
	V	(412–513)	66.8	427		[1981AMB/HAL, 1984BOU/FRI]
	V	(403–513)	69.2	418		[1927RIN, 1984BOU/FRI]
$C_4H_{10}O_3$	[4435-50-1]	1,2,3-butanetriol				
	V	(375–537)	68.1	390		[1947STU]
$C_4H_{10}O_3$	[149-73-5]	orthoformic acid trimethyl ester				
	V	(273–358)	39.0	288	A	[1987STE/MAL]
	V		38.1 ± 0.8	298		[1971PIH/TUO]
$C_4H_{10}O_3S$	[623-81-4]	diethyl sulfite				
	V		44.7			[1975DEM/KOV]
	V		48.5 ± 1.7	298	BP	[1969MAC/STE2]
	V	(283–431)	44.5	298	A	[1987STE/MAL, 1947STU, 1999DYK/SVO, 1937ISH/TAN]
$C_4H_{10}O_4$	[149-32-6]	*meso*-erythritol				
	FUS		42.0	390.2	DSC	[2008KAI/MAR]
	FUS		38.9	391.2	DSC	[2005LOP/TOM]
	FUS		41.2	391.8	DSC	[2004STU/WIT]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		40.3	392.2		[2002JON/COO]
	FUS		41.8			[1950NIT/SEK2]
	SUB		140	298	V + F	[2005LOP/TOM]
	SUB		157	298	B	[1990BAR/DEL]
	SUB		135.1 ± 2.2			[1960JON, 1970COX/PIL, 1950NIT/SEK2]
	V		97 ± 1	398	C	[2005LOP/TOM]
	V	(397–428)	113.6 ± 1.1	412	TE	[1990BAR/DEL]
	V	(394–401)	93.3	397	A	[1987STE/MAL, 1950NIT/SEK2]
$C_4H_{10}O_4$	[2319-57-5]	(*l*)-threitol				
	FUS		29.1	361.8	DSC	[2005LOP/TOM]
	SUB		123	298	V + F	[2005LOP/TOM]
	V		86 ± 1	398	C	[2005LOP/TOM]
$C_4H_{10}O_4S$	[64-67-5]	diethyl sulfate				
	V	(413–484)	50.1	428	A	[1987STE/MAL]
	V		56.9 ± 1.7	298	BP	[1969MAC/STE2]
	V	(320–482)	54.9	335		[1947STU, 1999DYK/SVO]
$C_4H_{10}S$	[109-79-5]	1-butanethiol				
	FUS		10.46	157.5		[1996DOM/HEA, 1957SCO/FIN]
	V		36.5	298		[1971WIL/ZWO]
	V	(323–409)	35	338	A, EB	[1987STE/MAL, 1957SCO/FIN, 1966OSB/DOU]
	V		34.7 ± 0.1	330	C	[1957SCO/FIN]
	V		33.6 ± 0.1	350	C	[1957SCO/FIN]
	V		32.2 ± 0.1	371	C	[1957SCO/FIN]
$C_4H_{10}S$	[513-53-1]	(*dl*)-2-butanethiol				
	FUS		6.48	133		[1996DOM/HEA, 1958MCC/FIN]
	V		34.1	298		[1971WIL/ZWO]
	V	(310–395)	33.2	325	A, EB	[1987STE/MAL, 1958MCC/FIN, 1966OSB/DOU]
	V		32.9 ± 0.1	318	C	[1958MCC/FIN]
	V		32.3 ± 0.1	329	C	[1958MCC/FIN]
	V		31.8 ± 0.1	337	C	[1958MCC/FIN]
	V		30.6 ± 0.1	358	C	[1958MCC/FIN]
$C_4H_{10}S$	[513-44-0]	2-methyl-1-propanethiol				
	FUS		4.98	128.3		[1996DOM/HEA, 1958SCO/MCC]
	V		34.6	298		[1971WIL/ZWO]
	V	(314–399)	33.6	329	A, EB	[1987STE/MAL, 1958SCO/MCC, 1966OSB/DOU]
	V		33.3 ± 0.1	321	C	[1958SCO/MCC]
	V		32.3 ± 0.1	340	C	[1958SCO/MCC]
	V		31.0 ± 0.1	361	C	[1958SCO/MCC]
$C_4H_{10}S$	[75-66-1]	*tert*-butyl mercaptan				
	TRS	(12–329)	4.07	151.6		
	TRS	(12–329)	0.65	157.0		
	TRS	(12–329)	0.97	199.4		
	FUS	(12–329)	2.48	274.4		[1996DOM/HEA, 1953MCC/SCO]
	V	(275–293)	30.1	284		[1998STO/NG]
	V		30.8	298		[1971WIL/ZWO]
	V	(293–373)	30.9	308	A, EB	[1987STE/MAL, 1953MCC/SCO, 1966OSB/DOU]
	V		30.8 ± 0.1	298	C	[1953MCC/SCO]
	V		29.7 ± 0.1	317	C	[1953MCC/SCO]
	V		28.4 ± 0.1	337	C	[1953MCC/SCO]
$C_4H_{10}S$	[352-93-2]	diethyl sulfide				
	FUS		11.92	169.2		[1996DOM/HEA, 1952SCO/FIN]
	V	(293–361)	34.9	327		[2008BAE]
	V		35.8 ± 0.7	298	C	[1989VOR/KLY]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		35.5	298		[1981SHI/SAI]
	V		35.8	298		[1971WIL/ZWO]
	V	(318–396)	34.4	333	A, EB	[1987STE/MAL, 1952SCO/FIN, 1966OSB/DOU]
	V		34.3	325	C	[1952SCO/FIN]
	V		33.1	344	C	[1952SCO/FIN]
	V		31.8	365	C	[1952SCO/FIN]
	V	(309–371)	34.8	324	EB	[1952WHI/BAR]
	V	(233–361)	37.5	248		[1947STU]
	V		33.5	364		[1935THO/LIN]
$C_4H_{10}S$	[1551-21-9]	methyl isopropyl sulfide				
	FUS		9.36	171.7		[1996DOM/HEA, 1955MCC/FIN]
	V		34.1	298		[1971WIL/ZWO]
	V		33.0 ± 0.1	318	C	[1955MCC/FIN]
	V		32.0 ± 0.1	336	C	[1955MCC/FIN]
	V		30.7 ± 0.1	358	C	[1955MCC/FIN]
	V	(298–368)	33.8	313	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_4H_{10}S$	[3877-15-4]	methyl propyl sulfide				
	FUS		9.91	160.2		[1996DOM/HEA, 1957SCO/FIN]
	V		36.2	298		[1971WIL/ZWO]
	V	(308–374)	35.3	323	A, EB	[1987STE/MAL, 1952WHI/BAR]
	V		34.5 ± 0.1	328	C	[1957SCO/FIN]
	V		33.4 ± 0.1	347	C	[1957SCO/FIN]
	V		32.1 ± 0.1	369	C	[1957SCO/FIN]
$C_4H_{10}S_2$	[1191-08-8]	1,4-butanedithiol				
	V	(347–469)	50.9	362	A	[1987STE/MAL, 1999DYK/SVO]
	V		55.3 ± 0.4	298		[1962MAN/SUN]
	V		54.9 ± 0.3	298		[1962MAN/SUN]
$C_4H_{10}S_2$	[110-81-6]	diethyl disulfide				
	FUS		9.4	171.6		[1996DOM/HEA, 1952SCO/FIN2]
	V	(383–423)	44.8	298	CGC	[1995CHI/HOS]
	V		45.4 ± 0.8	298	C	[1989VOR/KLY]
	V	(287–434)	45.7	302	A	[1987STE/MAL]
	V		45.2 ± 0.1	298	C	[1985KUS]
	V		45.2	298		[1981SHI/SAI]
	V		45.6	298		[1971WIL/ZWO]
	V	(373–431)	40.9	388	EB	[1987STE/MAL, 1966OSB/DOU, 1952SCO/FIN2]
	V		40.9	374	C	[1952SCO/FIN2]
	V		39.2	400	C	[1952SCO/FIN2]
	V	(359–433)	41.5	374	EB	[1952WHI/BAR]
$C_4H_{11}N$	[109-73-9]	butylamine				
	V	(298–343)	35.2	313	I	[2000BEL/BEL]
	V	(283–373)	36.0	298		[1995WOL/LAN]
	V	(323–373)	35.6	298	CGC	[1995CHI/HOS]
	V	(313–350)	34.7	328	A	[1987STE/MAL, 1971LET/BAY]
	V		35.7 ± 0.2	298	C	[1985KUS]
	V	(296–349)	35.5	311	EB	[1979MAJ/SVO2]
	V		35.7 ± 0.1	298	C	[1979MAJ/SVO2]
	V		34.7 ± 0.1	313	C	[1979MAJ/SVO2]
	V		33.5 ± 0.1	323	C	[1979MAJ/SVO2]
	V		32.4 ± 0.1	343	C	[1979MAJ/SVO2]
	V		31.1 ± 0.1	358	C	[1979MAJ/SVO2]
	V		35.7 ± 0.1	298	C	[1969WAD]
$C_4H_{11}N$	[13952-84-6]	*sec*-butylamine				
	V	(274–354)	33.8	298		[2012AHM/NEG]
	V	(300–335)	32.4	315	EB	[1979MAJ/SVO2]
	V		32.7 ± 0.1	298	C	[1979MAJ/SVO2]
	V		31.6 ± 0.1	313	C	[1979MAJ/SVO2]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		30.5 ± 0.1	328	C	[1979MAJ/SVO2]
	V		29.4 ± 0.1	343	C	[1979MAJ/SVO2]
	V	(264–371)	34.1	279	A	[1987STE/MAL, 1971DYK]
	V		32.6 ± 0.1	298	C	[1969WAD]
$C_4H_{11}N$	[78-81-9]	isobutylamine				
	V	(248–347)	37.6	263		[1987STE/MAL]
	V		33.9 ± 0.1	298	C	[1979MAJ/SVO2]
	V		32.7 ± 0.1	313	C	[1979MAJ/SVO2]
	V		31.6 ± 0.1	328	C	[1979MAJ/SVO2]
	V	(297–340)	33.5	313	EB	[1979MAJ/SVO2]
	V		33.8 ± 0.1	298	C	[1969WAD]
	V		33.9 ± 0.2	298	IPM	[1965DOU/OSB, 1970GOO/MOO]
$C_4H_{11}N$	[75-64-9]	*tert*-butylamine				
	TRS	(12–332)	0.11	91.3		
	TRS	(12–332)	6.05	202.3		
	FUS	(12–332)	0.88	206.2	AC	[1996DOM/HEA, 1972FIN/MES]
	V	(283–343)	30.5	298		[1995WOL/LAN]
	V		29.6 ± 0.1	298	C	[1969WAD]
	V	(292–349)	30.1	307	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU]
$C_4H_{11}N$	[109-89-7]	diethylamine				
	FUS		13.3	224.7	DSC	[2015ROT/VRB]
	V	(302–328)	31.2	315	A	[1987STE/MAL, 1971LET/BAY]
	V	(325–437)	30.4	340	A	[1987STE/MAL]
	V	(431–496)	28.4	446	A	[1987STE/MAL]
	V		31.3 ± 0.1	298	C	[1979MAJ/SVO2]
	V		30.2 ± 0.1	313	C	[1979MAJ/SVO2]
	V		29.1 ± 0.1	328	C	[1979MAJ/SVO2]
	V		28.0 ± 0.1	343	C	[1979MAJ/SVO2]
	V		31.2 ± 0.1	298	C	[1969WAD]
	V	(273–333)	32.7 ± 0.2	298	I	[1969FRA/WAT]
	V	(292–313)	31.8	307		[1965KIL/BIT, 1984BOU/FRI]
	V	(304–323)	31.5	319		[1962BIT/KAU, 1984BOU/FRI]
	V	(288–328)	31.5	308	I, EB	[1953COP/EVE]
	V		32.7			[1933MEH]
$C_4H_{11}N$	[4747-21-1]	*N*-methyl isopropyl amine				
	V		30.7 ± 0.1	298	C	[1979PET/MAJ]
	V		29.5 ± 0.1	313	C	[1979PET/MAJ]
	V		27.1 ± 0.1	343	C	[1979PET/MAJ]
	V	(293–319)	30.9	306	EB	[1979PET/MAJ]
$C_4H_{11}NO$	[108-01-0]	2-(dimethylamino)ethanol				
	V	(274–363)	46.7	298	Static	[2013CHI/DER]
	V	(278–316)	46.5 ± 0.4	298	GS	[2005KAP/SLO]
	V	(350–387)	43.2	365	A	[1987STE/MAL]
	V	(323–408)	42.7	338	A	[1987STE/MAL]
	V	(298–308)	47.9	298		[1982TOU/OKA, 2005KAP/SLO]
	V	(333–423)	47.6	298	EB	[1970QUI/HOF, 2005KAP/SLO]
$C_4H_{11}NO$	[5332-73-0]	3-methoxypropylamine				
	V	(278–390)	44.5	293	A	[1987STE/MAL]
	V		44.0 ± 0.1	298		[1978CAB/MOL]
$C_4H_{11}NO$	[124-68-5]	2-methyl-2-amino-1-propanol				
	V	(293–373)	63.3	308	Static	[2010BEL/AHM]
$C_4H_{11}NO$	[13325-10-5]	4-amino-1-butanol				
	FUS		21.83	292.2	DSC	[2015SOL/ROD]
$C_4H_{11}NO_2$	[111-42-2]	2,2′-iminodiethanol				
	V	(463–582)	69	478		[1959MCD/SHR]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_{11}NO_2$	[111-42-2]	diethanolamine				
	SUB		96.7 ± 1.2	298	C	[1982MIN/SAB]
	V	(423–542)	74.4	438	A	[1987STE/MAL]
	V	(376–454)	77.0	391		[1969DAN/MAT, 1984BOU/FRI]
	V	(466–514)	70.6	481		[1959MCD/SHR, 1984BOU/FRI]
$C_4H_{11}NO_2$	[115-69-5]	2-amino-2-methyl-1,3-propanediol				
	TRS	(78–405)	24.33	351.6		
	FUS	(78–405)	4.01	380.6	AC	[2010TON/TAN]
	TRS		23.55	356.7		
	FUS		2.76	384.1	DSC	[2006DIV/CHE]
	TRS		20.1	353.2		
	FUS		2.52	383.4	DSC	[2004STU/WIT]
	TRS		25.21	352		
	FUS		2.99	384		[1996DOM/HEA, 1994LOP/VAN]
	TRS	(283–393)	5.0	352.9		
	TRS	(283–393)	18.46	353.7		
	FUS	(283–393)	2.78	384.1	AC	[1990ZHA/YAN]
	SUB (cryst)	(330–346)	110 ± 6			[1995FON/MUN]
	SUB (plastic)	(354–372)	81 ± 8			[1995FON/MUN]
	SUB (plastic)		86.5 ± 4.3	368	C	[1994FON/MUN]
	SUB (cryst)		114.5 ± 5.7	339	C	[1994FON/MUN]
$C_4H_{11}NO_2$	[929-06-6]	1-amino-2-(2-hydroxyethoxy)ethane				
	V	(303–359)	73.4	331	GS	[2011VER/TON]
	V	(303–359)	75.9 ± 0.4	298	GS	[2011VER/TON]
	V	(391–516)	59.4	454	EB	[1994CUN/JON, 2011VER/TON]
	V	(391–516)	71.2 ± 0.6	298	EB	[1994CUN/JON, 2011VER/TON]
$C_4H_{11}NO_2S$	[6338-68-7]	*N,N*-dimethylethanesulfonamide				
	V	(384–517)	54.3	399	A	[1987STE/MAL]
	V	(384–517)	54.0			[1978LUK/MAK]
$C_4H_{11}NO_3$	[77-86-1]	2-amino-2-hydroxymethylpropane-1,3-diol				
	TRS		33.48	409.2		
	FUS		3.1	444.6	DSC	[2006DIV/CHE]
	TRS	(294–450)	33.42	407.5	AC	[1990YIN/LIN, 1994LOP/VAN]
	FUS	(294–450)	2.41	443.6	AC	[1990YIN/LIN, 1994LOP/VAN]
$C_4H_{11}NS$	[108-02-1]	2-dimethylaminoethanethiol				
	V	(275–364)	42.7	283	DSC,GS	[2013WIL/HUL]
	V	(275–364)	41.1	303	DSC,GS	[2013WIL/HUL]
	V	(275–364)	39.8	323	DSC,GS	[2013WIL/HUL]
	V	(275–364)	38.2	353	DSC,GS	[2013WIL/HUL]
$C_4H_{11}O_2PS_2$	[298-06-6]	*O,O*-diethyl phosphorodithioate				
	V		67.7	298		[2008SAG/SAF]
$C_4H_{11}O_3P$	[762-04-9]	diethylphosphite				
	V		49.3	298		[2008SAG/SAF]
	V	(338–471)	38.1	353	A	[1987STE/MAL, 1958PAG/PUR]
$C_4H_{11}O_3P$	[6163-75-3]	dimethyl ethylphosphonate				
	V	(333–410)	70.1	348	A	[1987STE/MAL, 1955KOS, 1984BOU/FRI]
$C_4H_{11}P$	[1605-51-2]	ethyldimethylphosphine				
	V	(273–297)	32.8	285		[1959KAE/STO]
$C_4H_{12}ClN$	[3858-78-4]	butylammonium chloride				
	V	(489–508)	62.1	498	A,I	[1987STE/MAL, 1967KIS]
$C_4H_{12}ClN$	[660-68-4]	diethylamine hydrochloride				
	V	(513–558)	177.6	528	A, I	[1987STE/MAL, 1967KIS]
$C_4H_{12}ClN_2P$	[3348-44-5]	bis(dimethylamino)chlorophosphine				
	V		45.9 ± 1.2	298	STG	[1995ALM/FIN2]

TABLE 7. Phase change enthalpies of C_4 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_4H_{12}FN_2OP$	[115-26-4]	bis(dimethylamido)fluorophosphate				
	V	(312–350)	50.4	327	A	[1987STE/MAL]
$C_4H_{12}NP$	[683-84-1]	dimethyl(dimethylamino)phosphine				
	V	(264–372)	36.8	279	A	[1987STE/MAL]
$C_4H_{12}N_2$	[4426-48-6]	(*dl*)-1,2-butanediamine				
	V	(251–293)	50.2	278	A	[1987STE/MAL, 1975MES/FIN]
	V	(251–293)	46.9	298	IPM	[1975MES/FIN]
	V	(251–293)	48.9 ± 0.3	298	IPM	[1975MES/FIN, 2015VER/EME2]
[Note: Error noted in the treatment in [1975MES/FIN]].						
	V		46.3 ± 0.2	298	IPM	[1965DOU/OSB, 1970GOO/MOO]
$C_4H_{12}N_2$	[110-60-1]	butane-1,4-diamine				
	FUS		28.06	295.1	DSC	[2002DAL/DEL]
	SUB	(256–295)	87.1	298	Static	[2014FUL/RUZ]
	V	(300–345)	53.6	323	GS	[2011POZ/VER]
	V	(300–345)	55.2 ± 0.3	298	GS	[2011POZ/VER]
$C_4H_{12}N_2$	[811-93-8]	2-methyl-1,2-propanediamine				
	TRS	(12–375)	15.46	237.5		
	FUS	(12–375)	2.23	256.1	AC	[1996DOM/HEA, 1975MES/FIN]
	V	(276–309)	47.3 ± 0.2	298	GS	[2015VER/EME2]
	V	(256–293)	47.2	278	IPM	[1987STE/MAL, 1975MES/FIN]
	V	(256–293)	43.5 ± 0.2	298	IPM	[1975MES/FIN]
	V	(256–293)	45.8 ± 0.3	298	IPM	[1975MES/FIN, 2015VER/EME2]
[Note: Error noted in the treatment in [1975MES/FIN].]						
	V		43.6 ± 0.2	298	IPM	[1965DOU/OSB, 1970GOO/MOO]
$C_4H_{12}N_2$	[110-72-5]	*N*-ethyl-1,2-ethanediamine				
	V	(358–402)	43.0	373		[2013BUR/STR]
$C_4H_{12}N_2$	[6415-12-9]	tetramethylhydrazine				
	V	(290–346)	32.9	305	T	[1987STE/MAL, 1957AYL]
$C_4H_{12}N_2$	[6291-84-5]	3-(methylamino)propylamine				
	V	(277–303)	53.1 ± 0.4	298	GS	[2012VER/CHE]
	V	(327–413)	45.9	342	EB	[2008KIM/SVE]
	V	(327–413)	48.7 ± 0.3	298	EB	[2008KIM/SVE, 2012VER/CHE]
$C_4H_{12}N_2O$	[111-41-1]	*N*-(2-hydroxyethyl)ethylenediamine				
	V	(323–374)	71.2	349	GS	[2011VER/TON]
	V	(323–374)	75.1 ± 0.3	298	GS	[2011VER/TON]
	V	(323–433)	58.2	378		[2001XIE/CHE]
	V	(323–433)	64.2 ± 1.6	298		[2001XIE/CHE]
	V	(383–517)	62.8	398	A	[1987STE/MAL]
$C_4H_{12}N_2OS$	[3768-60-3]	tetramethyl sulfurous diamide				
	V	(320–351)	41.9	335	A	[1987STE/MAL, 1999DYK/SVO, 1954BUR/WOO]
$C_4H_{12}N_2O_2S$	[3768-63-6]	*N,N,N′,N′*-tetramethylsulfamide				
	V	(358–495)	53.2	373	A	[1987STE/MAL, 1999DYK/SVO, 1954BUR/WOO]
$C_4H_{12}N_2S$	[2129-20-6]	tetramethylsulfoxylic diamide				
	V	(301–326)	40.4	313	A	[1987STE/MAL, 1954BUR/WOO]
$C_4H_{13}NP_2$	[98023-09-7]	bis(dimethylphosphino)amine				
	SUB	(300–310)	61.7	305		[1953WAG/BUR]
$C_4H_{13}N_3$	[111-40-0]	2,2′-diaminodiethylamine				
	V	(283–442)	64.4	298	Static	[2016BOU/DER]
	V	(371–521)	63.4 ± 0.7	298	EB	[1999RIB/MAT2]
	V	(371–441)	54.8	386	A,I	[1987STE/MAL, 1967SIV/MAT]

TABLE 8. Phase change enthalpies of C_5 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5BrF_{12}N$	[4908-96-7]	1,1,2,3,3,3-hexafluoro-2-bromo-*N*,*N*-bis(trifluoromethyl)propylamine				
	V	(324–351)	30.2	337	A	[1987STE/MAL, 1965HAS/TIP]
C_5ClF_5	[30221-57-9]	1-chloro-2,3,4,5,5-pentafluoro-1,3-cyclopentadiene				
	V	(273–303)	31.0	288	A	[1987STE/MAL, 1970BAN/BRI]
C_5ClF_5	[30221-56-8]	5-chloro-1,2,3,4,5-pentafluoro-1,3-cyclopentadiene				
	V	(283–323)	28.7	298	A	[1987STE/MAL, 1970BAN/BRI]
$C_5ClF_{10}N$	[54120-14-8]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethylidene]ethanimidoyl chloride				
	V		28.6	361		[1975PET/SHR2]
$C_5ClF_{12}N$	[54566-78-8]	*N*-chloro-1,1,2,3,3,3-heptafluoro-*N*-(pentafluoroethyl)-2-propanamine				
	V		28.6	346		[1975PET/SHR2]
$C_5Cl_2F_6$	[706-79-6]	1,2-dichlorohexafluorocyclopentene				
	V	(344–364)	33.0	354		[1959YEN/REE]
	V	(344–364)	36.5	298		[1959YEN/REE]
$C_5Cl_2F_9N$	[54566-77-7]	1,1-dichloro-2,2,2-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)-ethylidene]ethanamine				
	V		31.2	361		[1975PET/SHR2]
$C_5Cl_5F_7O$	[61196-11-0]	(1,1,2-trifluoro-2,2-dichloroethyl)(2,2,3,3-tetrafluoro-1,1,3-trichloropropyl) ether				
	V	(362–449)	45.3	377	A	[1987STE/MAL]
	V		50.7 ± 0.8	298	EB	[1976AMM/BUL]
C_5Cl_5N	[2176-62-7]	pentachloropyridine				
	FUS		27.7	398.2	DSC	[2004RAI]
C_5Cl_6	[77-47-4]	hexachlorocyclopentadiene				
	SUB		73.6	283	B	[1963BON, 1958UNG/MCB]
	V	(335–512)	53.7	350	A	[1987STE/MAL]
	V		67.4			[1977LYU/SMO]
C_5Cl_8	[706-78-5]	octachlorocyclopentene				
	V		83.4			[1977LYU/SMO]
C_5F_5N	[700-16-3]	perfluoropyridine				
	V	(273–363)	36.3	288	A	[1987STE/MAL, 1961BAN/GIN, 1972DYK]
C_5F_8	[21972-01-0]	perfluoro-1,2-pentadiene				
	V	(262–276)	26.1	269	A	[1987STE/MAL, 1968BAN/BRA]
C_5F_9N	[19451-91-3]	3,3,3-trifluoro-*N*,*N*-bis(trifluoromethyl)-1-propynylamine				
	V	(277–293)	24.9	285	A	[1987STE/MAL, 1968FRE/TIP]
C_5F_9N	[714-37-4]	2,3,4,5-tetrahydrononafluoropyridine				
	V	(249–310)	29.3	264	A	[1987STE/MAL, 1962BAN/CHE]
C_5F_9NO	[52225-57-7]	2,2,2-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]acetamide				
	V		32.1	319		[1974PET/SHR]
C_5F_9NO	[4827-67-2]	3,3,4,5,6,6-hexafluoro-3,6-dihydro-2-trifluoromethyl-2*H*-1,2-oxazine				
	V	(263–323)	31.4	278	A	[1987STE/MAL, 1965BAN/BAR]
$C_5F_9NO_3S$	[34805-64-6]	nonafluoro-1-butanesulfonyl isocyanate				
	V	(309–401)	48.2	324	A	[1987STE/MAL, 1974BEH/HAA]
C_5F_{10}	[376-77-2]	perfluorocyclopentane				
	TRS		4.95	118.2		
	FUS		2.99	283.5		[1951BUR/CAD]
	SUB	(229–281)	32.1	266	A	[1987STE/MAL, 1967CRO/TAY]
	SUB		38.2	115		[1963BON, 1951BUR/CAD, 1956BAR/CAD]
	V	(285–297)	27.0	291	A	[1987STE/MAL, 1967CRO/TAY]
	V	(290–330)	25.6	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(290–329)	26.3	298		[1956BAR/CAD]
$C_5F_{10}N_2O_2$	[32822-52-9]	decafluoroglutaramide				
	V		35.6	368	HG	[1971DEM/SHR]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5F_{10}N_2O_2$	[1840-07-9]	1-nitrodecafluoropiperadine				
	V	(283–343)	29.6	298	A	[1987STE/MAL, 1964BAN/CHE]
$C_5F_{10}O_2$	[55064-79-4]	carbonofluoridic acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl) ethyl ether				
	V	(275–305)	32.2	290	A	[1987STE/MAL, 1975WAL/DES2]
$C_5F_{10}O_3S$	[2993-14-8]	perfluorocyclopentyl fluorosulfate				
	V	(255–360)	36.6	307		[1963GIL/CAD]
$C_5F_{10}O_6S_2$	[741-20-8]	octafluorocyclopentanediol bis(fluorosulfate)				
	V	(334–423)	49.5	349		[1972DYK, 1987STE/MAL, 1999DYK/SVO, 1961SHR/CAD]
$C_5F_{11}N$	[836-77-1]	perfluoropiperidine				
	TRS	(12–318)	6.63	161		
	TRS	(12–318)	1.84	171.9		
	FUS	(12–318)	2.82	274.1		[1996DOM/HEA, 1963GOO/TOD]
	V	(302–355)	30.0	317	A, EB	[1987STE/MAL, 1963GOO/TOD, 1972DYK]
$C_5F_{11}N$	[2344-10-7]	octafluoro-1-(trifluoromethyl)pyrrolidine				
	V	(249–306)	29.4	264	A	[1987STE/MAL, 1962BAN/CHE]
$C_5F_{11}NO$	[52225-65-7]	*N*,2,2,2-tetrafluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]acetamide				
	V		32.6	332		[1974PET/SHR]
C_5F_{12}	[594-91-2]	perfluoro-2-methylbutane				
	V	(290–340)	26.3	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(228–308)	31.0	243	A	[1987STE/MAL, 1967CRO/TAY]
	V		26.1	303		[1967CRO/TAY]
	V	(290–337)	27.4	298		[1956BAR/CAD]
C_5F_{12}	[678-26-2]	perfluoropentane				
	FUS		6.8	147.8		[1951BUR/CAD]
	SUB		43.7	145		[1963BON, 1951BUR/CAD, 1956BAR/CAD]
	V	(280–340)	26.6	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(221–303)	31.1	236	A	[1987STE/MAL, 1967CRO/TAY]
	V		26.4	302		[1967CRO/TAY]
	V	(288–338)	27.5	298		[1956BAR/CAD]
$C_5F_{12}N_2$	[53684-06-3]	[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl](trifluoromethyl)diazene				
	V		23.7	309		[1975KIR/LAS]
$C_5F_{12}O_2$	[20822-11-1]	bis(pentafluoroethoxy)difluoromethane				
	V	(246–299)	32.7	261	A	[1987STE/MAL, 1968HOH/SHR]
$C_5F_{12}O_2S$	[52225-54-4]	trifluoromethanesulfinic acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl) ethyl ether				
	V		37.7	355	HG	[1974MAJ/SHR]
$C_5F_{12}O_4S$	[60672-63-1]	pentafluoro(2,2,3,3,4,4,5-heptafluoro-5-oxopentaneperoxoato)sulfur				
	V		39.2			[1976HOP/DES]
$C_5F_{13}N$	[1481-55-6]	*N*-(trifluoromethyl)bis(pentafluoroethyl)amine				
	FUS		4.60	150.1		[1996DOM/HEA, 1984GOL/KOL]
	TRS		5.53	126.0		
	FUS	(6–300)	7.16	149.7		[1996DOM/HEA, 1980ZHO/KOS]
	V	(298–319)	30.2	308	A	[1987STE/MAL]
	V		29.4 ± 0.4	298		[1977VAR/AMM2]
$C_5F_{13}NS$	[37826-44-1]	*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-*S*,*S*-bis(trifluoromethyl)sulfilimine				
	V	(314–360)	31.3		A	[1987STE/MAL, 1999DYK/SVO]
$C_5F_{14}N_2O$	[17636-89-4]	1-[difluoro(trifluoromethoxy)methyl]-1,2,2-tris(trifluoromethyl)hydrazine				
	V	(302–331)	34.7		A	[1987STE/MAL, 1967HAS/TIP]
$C_5F_{14}N_2O$	[17636-88-3]	1,1-difluoro-*N*-(trifluoromethoxy)-*N*, *N′*, *N′*-tris(trifluoromethyl)methanediamine				
	V	(282–323)	33.7	297	A	[1987STE/MAL, 1967HAS/TIP]
$C_5F_{14}OS$	[736-59-4]	pentafluoro[(nonfluorocyclopentyl)oxyl] sulfur				

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(300–361)	36.1	315	A	[1987STE/MAL, 1999DYK/SVO]
$C_5F_{15}N$	[758-48-5]	*N*-(trifluoromethyl)bis(pentafluoroethyl)amine				
	V		29.4 ± 0.4	298		[1977VAR/AMM]
$C_5F_{15}NS$	[65844-10-2]	difluoro[1,1,1,2,3,3,3-heptafluoro-2-propanaminoto(2-)]-bis(trifluoromethyl) sulfur				
	V		32.2	375	I	[1978KIT/SHR]
$C_5F_{15}P_5$	[745-23-3]	1,2,3,4,5-*pentakis*(trifluoromethyl)pentaphospholane				
	V	(319–435)	51.8	334	A, SG	[1987STE/MAL, 1958MAH/BUR]
C_5N_4	[24331-09-7]	tetracyanomethane				
[Note: Authors of [1972RUB/RUD] report that no phase transitions were observed between 123 K and the decomposition temperature of 433 K.]						
	SUB		61.1 ± 8.8	298	DSC	[1973BAR/MOR2]
C_5O_2	[51799-36-1]	pentacarbon dioxide				
	V	(186–273)	4.6	258	A	[1987STE/MAL, 1937KLE/WAG]
$C_5HClF_8O_2$	[52225-55-5]	trifluoroacetic acid, 1-(chlorodifluoromethyl)-2,2,2-trifluoroethyl ester				
	V		37.2	338	HG	[1974MAJ/SHR]
$C_5HF_9O_4$	[151772-58-6]	perfluoro-3,6-dioxaheptanoic acid				
	V	(254–309)	66.4	263	GS	[2013SCH/BUC]
	V	(254–309)	64.4	278	GS	[2013SCH/BUC]
	V	(254–309)	62.8	293	GS	[2013SCH/BUC]
	V	(254–309)	61.3	308	GS	[2013SCH/BUC]
$C_5HF_{10}NO$	[52225-63-5]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]acetamide				
	V		42.3	367		[1974PET/SHR]
C_5HF_9	[376-65-8]	nonafluorocyclopentane				
	V	(289–348)	29.6	304	A	[1987STE/MAL, 1956BAR/CAD]
	V	(289–348)	29.4	298		[1956BAR/CAD]
C_5HF_9IN	[20257-34-5]	*cis*-3,3,3-trifluoro-1-iodo-*N*, *N*-bis(trifluromethyl)propenylamine				
	V	(343–366)	31.3	354	A	[1987STE/MAL, 1968FRE/TIP]
C_5HF_9IN	[20257-35-6]	*trans*-3,3,3-trifluoro-1-iodo-*N*, *N*-bis(trifluromethyl)propenylamine				
	V	(345–368)	35	356	A	[1987STE/MAL, 1968FRE/TIP]
$C_5HF_9O_2$	[42031-15-2]	trifluoroacetic acid, 2,2,2-1-(trifluoromethyl)ethyl ester				
	V		28.5	321	HG	[1973MAJ/SHR]
$C_5HF_{10}N$	[559-31-9]	2,2,3,3,4,4,5,5,6,6-decafluoropiperidine				
	V	(273–313)	32.7	288	A	[1987STE/MAL, 1964BAN/CHE]
$C_5HF_{12}N$	[54566-80-2]	1,1,1,2,3,3,3-heptafluoro-*N*-(pentafluoroethyl)-2-propanamine				
	V		29.8	325		[1975PET/SHR2]
C_5HN_3	[997-76-2]	ethylenetricarbonitrile				
	V	(313–343)	66.0	328	A, MG	[1987STE/MAL, 1963BOY]
$C_5H_2BrF_8N$	[19451-93-5]	2-bromo-3,3-difluoro-*N*, *N*-bis(trifluoromethyl)allylamine				
	V	(336–367)	33.8	351	A	[1987STE/MAL, 1968FRE/TIP]
$C_5H_2Cl_3N$	[16063-70-0]	2,3,5-trichloropyridine				
	SUB		74.4 ± 1.5	298	C	[2005GOM/AMA]
$C_5H_2C_{l3}NO$	[6515-38-4]	3,5,6-trichloro-2-pyridinol				
	FUS		25.79	448.1	DSC	[1991ACR, 1990DON/DRE]
	V	(373–403)	63.0	388	GC	[2007GOE/MCC]
$C_5H_2F_6N_2$	[14704-41-7]	3,5-bis(trifluoromethyl)pyrazole				
	SUB		69.0 ± 0.6	266	ME	[1991ELG/YRA]
$C_5H_2F_6O_2$	[1522-22-1]	1,1,1,5,5,5-hexafluoropentan-2,4-dione				
	V	(273–330)	33.1	301	GS	[1998GEO/YOU]
	V		30.6 ± 0.1	298	C	[1997RIB/GON, 1975IRV/RIB, 1978RIB/IRV]
$C_5H_2F_9N$	[25273-42-1]	*trans*-3,3,3-trifluoro-*N*, *N*-bis(trifluoromethyl)propenylamine				
	V	(287–319)	28.2	302	A	[1987STE/MAL, 1968FRE/TIP]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_2F_9NOS$	[62067-07-6]	2,2,2-trifluoro-*N*-[(trifluoromethyl)thio]ethanimidic acid, 2,2,2-trifluoroethyl ester				
	V		35.8	373	I	[1977BUR/SHR2]
$C_5H_2F_9NS$	[57682-29-8]	2,2,2-trifluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]ethanethioamide				
	V		36.9			[1975PET/SHR3]
$C_5H_2F_{10}$	[138495-42-8]	1,1,1,2,2,3,4,5,5,5-decafluoropentane				
	V	(289–326)	33.4	298		[2001LOR/AUC]
$C_5H_2F_{10}$	[142347-07-7]	(*threo*) 1,1,1,2,2,3,4,5,5,5-decafluoropentane				
	V	(293–328)	40.8	298	EB	[2004KAO/SIE]
$C_5H_2F_{10}$	[142347-08-8]	(*erythro*) 1,1,1,2,2,3,4,5,5,5-decafluoropentane				
	V	(293–328)	37.9	298	EB	[2004KAO/SIE]
$C_5H_2F_{10}O$	[142469-08-7]	1,1,1,2,2,3,3-heptafluoro-3-(2,2,2-trifluoroethoxy)propane				
	V	(288–325)	31.5	303	I	[2002MUR/YAM]
$C_5H_2F_{10}O$	[347148-74-7]	1,1,1,2,4,4,4-heptafluoro-2-(trifluoromethoxy)butane				
	V	(288–323)	31.8	303	I	[2002MUR/YAM]
$C_5H_2F_{10}O$	[155653-44-4]	1,1,1,2,2-pentafluoro-3-(pentafluoroethoxy)propane				
	V	(288–320)	31.2	303	I	[2002MUR/YAM]
$C_5H_2F_{10}O_3$	[188690-77-9]	1-(difluoromethoxy)-2-[(difluoromethoxy)difluoromethoxy]-1,1,2,2-tetrafluoroethane				
	V	(263–357)	36.5 ± 0.7			[1999MAR/BAS]
$C_5H_2N_4$	[1122-28-7]	4,5-dicyanoimidazole				
	FUS		22.6	449.0	DSC	[2012ALM/MON]
	SUB	(383–403)	119.5 ± 0.9	298	ME	[2012ALM/MON]
$C_5H_2N_4O_6$	[78013-51-1]	2,4,6-trinitropyridine				
	FUS		22.0	436.2		[1988LIC/RIT]
	SUB	(335–357)	101.7 ± 2.9			[1995LEB/CHI]
$C_5H_2N_4O_7$	[25242-76-6]	2,4,6-trinitropyridine *N*-oxide				
	SUB	(377–403)	106.3 ± 2.9			[1995LEB/CHI]
$C_5H_3BrF_9N$	[19451-92-4]	2-bromo-3,3,3-trifluoro-*N*, *N*-bis(trifluoromethyl)propylamine				
	V	(342–365)	34.2	353	A	[1987STE/MAL, 1968FRE/TIP]
$C_5H_3Br_2N$	[624-28-2]	2,5-dibromopyridine				
	SUB		82.1 ± 2.2	298	C	[1997RIB/MAT]
$C_5H_3Br_2N$	[626-05-1]	2,6-dibromopyridine				
	SUB		85.6 ± 3.0	298	C	[1997RIB/MAT]
$C_5H_3Cl_2N$	[2402-77-9]	2,3-dichloropyridine				
	SUB		73.5 ± 3.1	298	C	[1997RIB/MAT]
$C_5H_3Cl_2N$	[16110-09-1]	2,5-dichloropyridine				
	SUB		67.1 ± 2.0	298	C	[1997RIB/MAT]
$C_5H_3Cl_2N$	[2402-78-0]	2,6-dichloropyridine				
	SUB		72.0 ± 1.6	298	C	[1997RIB/MAT]
$C_5H_3Cl_2N$	[2457-47-8]	3,5-dichloropyridine				
	SUB		67.3 ± 1.9	298	C	[1997RIB/MAT]
$C_5H_3F_3N_2O_2$	[54-20-6]	5-(trifluoromethyl)uracil				
	SUB	(373–392)	108.5 ± 0.9	382	ME	[2004ZIE/SZT]
	SUB	(373–392)	110.8 ± 0.9	298	ME	[2004ZIE/SZT]
$C_5H_3F_6N$	[25237-11-0]	*N*, *N*-bis(trifluoromethyl)-1-propynylamine				
	V	(295–312)	31.1	303	A	[1987STE/MAL, 1969FRE/TIP2]
$C_5H_3F_7O_2$	[356-24-1]	methyl perfluorobutyrate				
	FUS		11.77	191.4		[1996DOM/HEA, 1984GOL/KOL]
	V		34.5			[1977DIT/KOL, 1978KOL/DIT]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_3F_8NOS$	[77589-48-1]	2,2,3,3,4,4,5,5-octafluoro-1,1,2,3,4,5-hexahydro-1-(methylimino)-thiophene-1-oxide				
	V		33.9	330		[1981ABE/SHR]
$C_5H_3F_9N_2OS$	[62609-63-6]	1,1,1-trifluoro-*N′*-methyl-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methanesulfonimidamide				
	V		32.6	417	I	[1977KIT/SHR]
$C_5H_3F_9O$	[176310-27-3]	1,1,2,2-tetrafluoro-3-(pentafluoroethoxy)propane				
	V	(288–336)	34.0	303	I	[2002MUR/YAM]
$C_5H_3F_9O$	[176310-28-4]	1-(2,2-difluoroethoxy)-1,1,2,2,3,3,3-heptafluoropropane				
	V	(288–340)	34.8	303	I	[2002MUR/YAM]
$C_5H_3F_9O$	[50807-74-4]	1,1,1,2,2-pentafluoro-3-(1,1,2,2-tetrafluoroethoxy)propane				
	V	(293–343)	35.6	308	I	[2002MUR/YAM]
$C_5H_3F_9O$	[439152-54-2]	1,1,1,2,4,4-hexafluoro-2-(trifluoromethoxy)butane				
	V	(283–332)	33.8	298	I	[2002MUR/YAM]
$C_5H_3F_9O$	[66670-22-2]	1,1,1,3,3,3-hexafluoro-2-methxoy-2-(trifluoromethyl)propane				
	V	(288–326)	31.3	303	I	[2002MUR/YAM]
$C_5H_3F_9O$	[993-95-3]	1,1,1,2,3,3-hexafluoro-3-(2,2,2-trifluoroethoxy)propane				
	V	(293–346)	36.1	308	I	[2002MUR/YAM]
$C_5H_3F_9O$	[69948-43-2]	1,1,1,2,3,3-hexafluoro-4-(trifluoromethoxy)butane				
	V	(288–338)	34.0	303	I	[2002MUR/YAM]
$C_5H_3F_9O_2S$	[52225-51-1]	trifluoromethanesulfinic acid, 2,2,2-trifluoro-1-methyl-1-(trifluoromethyl)ethyl ester				
	V		34.3	385	HG	[1974MAJ/SHR]
C_5H_3NO	[617-90-3]	2-furancarbonitrile				
	V		44.8 ± 0.4	298	C	[2009RIB/AMA]
$C_5H_3NO_3$	[698-63-5]	5-nitro-2-furancarboxaldehyde				
	SUB		75.3 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
$C_5H_3NO_3S$	[4521-33-9]	5-nitro-2-thiophenecarboxaldehyde				
	SUB	(299–315)	91.5 ± 0.5	307	ME	[2010RIB/SAN4]
	SUB	(299–315)	92.0 ± 0.5	298	ME	[2010RIB/SAN4]
C_5H_3NS	[1003-31-2]	2-thiophenecarbonitrile				
	V		49.5 ± 1.1	298	C	[2008RIB/SAN]
C_5H_3NS	[1641-09-4]	3-thiophenecarbonitrile				
	V		51.6 ± 1.9	298	C	[2008RIB/SAN]
C_5H_3NS	[10359-20-3]	2,2-dicyanopropionitrile				
	FUS		18.7	367.2		[1994RAK/VER]
	SUB	(293–333)	73.9 ± 0.5	313	T	[1994RAK/VER]
	V	(293–333)	55.2		B	[1994RAK/VER]
$C_5H_3N_3$	[19847-12-2]	pyrazinecarbonitrile				
	V		58.7 ± 1.2	298	C	[2005RIB/MIR]
$C_5H_4BrF_6N$	[25273-47-6]	*cis*-2-bromo-*N*, *N*-bis(trifluoromethyl)propenylamine				
	V	(346–367)	35.3	356	A	[1987STE/MAL, 1969FRE/TIP2]
$C_5H_4BrF_6N$	[25273-48-7]	*trans*-2-bromo-*N*, *N*-bis(trifluoromethyl)propenylamine				
	V	(336–360)	33.3	348	A	[1987STE/MAL, 1969FRE/TIP2]
C_5H_4BrN	[109-04-6]	2-bromopyridine				
	V		54.4 ± 1.3	298	C	[1997RIB/MAT]
	V	(233–323)	51.0	298	ME	[1991AUE/WEB]
C_5H_4BrN	[626-55-1]	3-bromopyridine				
	V		52.1 ± 1.3	298	C	[1997RIB/MAT]
	V	(233–323)	45.2	298	ME	[1991AUE/WEB]
	V	(289–447)	47.4	304	A	[1987STE/MAL, 1947STU]
$C_5H_4ClF_7O$	[65064-83-7]	3-(2-chloro-1,1,2-trifluoroethoxy)-1,1,2,2-tetrafluoropropane				
	V		44.4 ± 0.2	298	C	[1981VAR/BUL2]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_5H_4ClN	[109-09-1]	2-chloropyridine				
	V		51.0 ± 1.2	298	C	[1997RIB/MAT2]
	V	(283–298)	46.2	298		[1979ARN/CHA]
	V	(286–444)	53	301	A	[1987STE/MAL, 1947STU]
C_5H_4ClN	[626-60-8]	3-chloropyridine				
	V		47.9 ± 1.1	298	C	[1997RIB/MAT2]
	V	(283–298)	43.4	298		[1979ARN/CHA]
C_5H_4ClNO	[6636-78-8]	2-chloro-3-hydroxypyridine				
	SUB		89.2 ± 1.7	298	C	[2013MIR/MAT]
C_5H_4ClNO	[89-64-5]	2-chloro-6-hydroxypyridine				
	SUB		91.7 ± 1.2	298	C	[2013MIR/MAT]
C_5H_4ClNO	[610-78-6]	3-chloro-5-hydroxypyridine				
	SUB		99.5 ± 2.0	298	C	[2013MIR/MAT]
$C_5H_4F_4N_4O_{10}$	[58715-08-5]	bis(2-fluoro-2,2-dinitroethyl)difluoroformal				
	V	(323–357)	72.7	340		[1997MIN/BEH]
C_5H_4FN	[372-48-5]	2-fluoropyridine				
	V	(233–323)	43.5	298	ME	[1991AUE/WEB]
C_5H_4FN	[372-47-4]	3-fluoropyridine				
	V	(233–323)	45.2	298	ME	[1991AUE/WEB]
$C_5H_4F_7I$	[1513-88-8]	1,1,1,2,2,3,3-heptafluoro-5-iodopentane				
	V	(317–386)	38.7	332	A	[1987STE/MAL]
$C_5H_4F_8O$	[16627-68-2]	1,1,2,2-tetrafluoro-3-(1,1,2,2-tetrafluoroethoxy)propane				
	V	(293–366)	40.2	308	I	[2002MUR/YAM]
$C_5H_4F_8O$	[382-26-3]	1,1,1,3,3-penatafluoro-3-methoxy-2-trifluoromethylpropane				
	V	(288–343)	34.5	303	I	[2002MUR/YAM]
$C_5H_4F_9N$	[19451-89-9]	3,3,3-trifluoro-*N*, *N*-bis(trifluoromethyl)propylamine				
	V	(290–333)	31	305	A	[1987STE/MAL, 1968FRE/TIP]
$C_5H_4N_2$	[37580-43-1]	*cis*-2-methyl-2-butenedinitrile				
	V	(395–467)	58.5	410	A	[1987STE/MAL, 1972DYK]
$C_5H_4N_2$	[37580-44-2]	*trans*-2-methyl-2-butenedinitrile				
	V	(339–411)	47.9	354	A	[1987STE/MAL, 1972DYK]
$C_5H_4N_2$	[4513-94-4]	2-pyrrolecarbonitrile				
	V		65.3 ± 1.4	298	C	[2012SAN/RIB]
$C_5H_4N_2O_2$	[98-97-5]	2-pyrazinecarboxylic acid				
	SUB		103.6 ± 2.9	298	C	[2005RIB/MIR]
$C_5H_4N_2O_3$	[1124-33-0]	4-nitropyridine-*N*-oxide				
	SUB		108.9 ± 0.3	298	C	[1995ACR/TUC]
	SUB	(311–335)	89.1 ± 2.5			[1995LEB/CHI]
$C_5H_4N_4$	[275-02-5]	1,2,4-triazolo[1,5-a]pyrimidine				
	FUS		19.4	419.5		[1997STE/CHI4]
	SUB		86.9	419		[1997STE/CHI4]
	V		70.7 ± 4.5	298	CGC	[2011LIP/RAT]
	V		63.7 ± 2.7	298	CGC	[2011LIP/RAT]
	V	(370–523)	82.5 ± 13.1	298	EB	[1997STE/CHI4]
	V	(370–523)	63.5 ± 2.2	480	EB	[1997STE/CHI4]
	V	(370–523)	61.2 ± 2.0	520	EB	[1997STE/CHI4]
$C_5H_4N_4$	[120-73-0]	purine				
	SUB		NA			[1974TEP/SUK]
$C_5H_4N_4O$	[68-94-0]	hypoxanthine				
	SUB	(423–473)	158.1 ± 1.6	448		[1975TEP/YAN]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_4N_4S$	[6112-76-1]	6-mercaptopurine				
	SUB	(413–458)	148.5 ± 1.5	435		[1975TEP/YAN]
C_5H_4OS	[98-03-3]	2-thiophenecarboxyaldehyde				
	V		54.9 ± 1.1	298	C	[2008RIB/SAN2]
C_5H_4OS	[498-62-4]	3-thiophenecarboxyaldehyde				
	V		52.6 ± 1.2	298	C	[2008RIB/SAN2]
$C_5H_4O_2$	[98-01-1]	2-furfuraldehyde				
	FUS		14.37	235.1		[1996DOM/HEA, 1935MIL]
	V	(277–323)	50.7 ± 0.2	298	GS	[2007EME/DAB]
	V	(357–435)	44.7	372	A	[1987STE/MAL]
	V	(366–394)	50.7 ± 0.2	298	EB	[1987HAU/WU, 2007EME/DAB]
	V	(329–433)	48.2	344		[1950MAT/SUM, 1984BOU/FRI]
	V	(365–443)	47.6	380		[1926EVA/AYL, 1984BOU/FRI]
	V	(329–434)	50.6 ± 0.4	298	EB	[1926MAT, 2007EME/DAB]
$C_5H_4O_2$	[498-60-2]	3-furanaldehyde				
	V		48.1 ± 0.5	298	C	[2009RIB/AMA]
$C_5H_4O_2S$	[527-72-0]	2-thiophenecarboxylic acid				
	FUS		21	400.9	DSC	[2003ROU/TEM]
	SUB	(307–328)	90.8 ± 1.3	314	ME	[2002TEM/ROU]
	SUB	(307–328)	91.2 ± 1.3	298	ME	[2002TEM/ROU]
	SUB	(315–323)	97.1	319	E	[1953BRA/CAR, 1960JON, 1999DYK/SVO]
	SUB	(315–323)	97.5	298	E	[1953BRA/CAR, 2002TEM/ROU]
$C_5H_4O_2S$	[88-13-1]	3-thiophenecarboxylic acid				
	FUS		18.3	412.9	DSC	[2003ROU/TEM]
	SUB	(308–325)	91.4 ± 0.9	317	ME	[2002TEM/ROU]
	SUB	(308–325)	91.9 ± 0.9	298	ME	[2002TEM/ROU]
$C_5H_4O_3$	[616-02-4]	citraconic anhydride				
	V	(320–487)	53.3	335	A	[1987STE/MAL, 1947STU]
$C_5H_4O_3$	[88-14-2]	2-furancarboxylic acid				
	FUS		23.33	402.4	DTA	[2014SOB/VAN, 2015SOB/VAN]
	FUS		20.5	403.6	DSC	[2014GUO/YIN]
	FUS		22.6	402.5	DSC	[2004ROU/TEM2]
	SUB	(324–372)	91.9 ± 0.8	340	ME	[2014SOB/VAN]
	SUB	(285–304)	88.4 ± 1.5	298	ME	[2003ROU/TEM3]
	SUB	(317–328)	108.4 ± 2.2		ME	[1953BRA/CAR, 1960JON, 1970COX/PIL]
$C_5H_4O_3$	[488-93-7]	3-furancarboxylic acid				
	FUS		21.3	394.8	DSC	[2004ROU/TEM2]
	SUB	(283–298)	87.1 ± 0.5	298	ME	[2003ROU/TEM3]
$C_5H_5ClN_2O_2$	[31737-09-4]	1-methyl-6-chlorouracil				
	SUB	(417–465)	108.8 ± 8		HSA	[1978NOW/SZC]
$C_5H_5ClN_2O_2$	[4318-56-3]	3-methyl-6-chlorouracil				
	SUB	(444–493)	104.6 ± 6		HSA	[1978NOW/SZC]
$C_5H_5Cl_3OS$	[76619-92-6]	2,3,3-trichloro-2-propenethioic acid, *O*-ethyl ester				
	V	(383–423)	66.9		GC	[1980PIT/KIS]
$C_5H_5FN_2O_2$	[155-16-8]	1-methyl-5-fluorouracil				
	SUB	(381–423)	116 ± 2		TE	[2002BRU/POR]
	SUB	(480–515)	125.5 ± 8		HSA	[1978NOW/SZC]
$C_5H_5FN_2O_2$	[4840-69-1]	3-methyl-5-fluorouracil				
	SUB	(465–487)	79.5 ± 17		HSA	[1978NOW/SZC]
$C_5H_5F_3N_2$	[10010-93-2]	3(5)-trifluoromethyl-5(3)-methylpyrazole				
	SUB		78.2 ± 0.8	297	ME	[1991ELG/YRA]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_5F_3O_2$	[367-57-7]	1,1,1-trifluoropentane-2,4-dione				
	V		37.2 ± 0.2	298	C	[1997RIB/GON, 1975IRV/RIB, 1978RIB/IRV]
$C_5H_5F_3O_2$	[7291-30-7]	trifluoromethyl (2-hydroxy-1-propenyl)ketone				
	FUS		8.45	232.4		[1996DOM/HEA, 1984GOL/KOL]
$C_5H_5F_6NO$	[22743-77-7]	*N*, *N*-bis(trifluoromethyl)allylamine-*N*-oxide				
	V	(254–328)	33.1	269	A	[1987STE/MAL, 1968NAS/BAB]
$C_5H_5F_6NO$	[22130-39-8]	1-methoxy-*N*, *N*-bis(trifluoromethyl)vinylamine				
	V	(321–343)	32.4	332	A	[1987STE/MAL, 1969FRE/TIP]
$C_5H_5F_6NO$	[22298-35-7]	*cis*-2-methoxy-*N*, *N*-bis(trifluoromethyl)vinylamine				
	V	(341–362)	32.5	351	A	[1987STE/MAL, 1969FRE/TIP]
$C_5H_5F_6NO_2$	[22743-66-4]	*N*, *N*-bis(trifluoromethyl)propionamide-*N*-oxide				
	V	(278–361)	42.1	293	A	[1987STE/MAL, 1968NAS/BAB]
$C_5H_5F_7O$	[200501-98-0]	1,1,1,2-tetrafluoro-2-(trifluoromethoxy)butane				
	V	(283–319)	30.3	298	I	[2002MUR/YAM]
$C_5H_5F_7O$	[22052-86-4]	1-ethoxy-1,1,2,2,3,3,3-heptafluoropropane				
	V	(288–323)	31.0	303	I	[2002MUR/YAM]
$C_5H_5F_7O$	[376-98-7]	1,1,1,2,2,3,3-heptafluoro-4-methoxybutane				
	V	(293–344)	34.6	308	I	[2002MUR/YAM]
C_5H_5N	[2180-69-0]	*cis*-2,4-pentadienenitrile (*cis*-1-cyano-1,3-butadiene)				
	V	(318–383)	41.4	333	A	[1987STE/MAL, 1972DYK]
	V		40.7	348		[1954WIS]
	V		38.3	408		[1954WIS]
C_5H_5N	[16955-35-4]	bicyclo[1.1.0]butane-1-carbonitrile				
	V	(307–349)	48.0	319	BG	[1971HAL/BAL]
C_5H_5N	[110-86-1]	pyridine				
	FUS		8.28	231.5		[1996DOM/HEA, 1957MCC/DOU]
	FUS	(90–300)	8.27	231.1		[1996DOM/HEA, 1936PAR/TOD]
	FUS		U3.1	230.4		[1996DOM/HEA, 1936PEA/BAK]
	V	(283–363)	40.3	298		[2014KHE/MUT]
	V	(342–373)	40.5 ± 1.1	298	CGC	[2009LIP/CHI2]
	V	(289–358)	39.3	324		[1997UKR/SOL]
	V		40.16 ± 0.06	298		[1996CHI/STE]
	V	(323–373)	40.4	298	CGC	[1995CHI/HOS]
	V	(346–362)	37.6	354		[1994BLA/BEL]
	V	(295–388)	39.9	310	EB	[1990LEN]
	V	(296–353)	39.7	311	A	[1987STE/MAL]
	V	(348–434)	37.3	363	A	[1987STE/MAL]
	V	(431–558)	35.0	446	A	[1987STE/MAL]
	V	(552–620)	34.0	567	A	[1987STE/MAL]
	V	(298–333)	39.6	313	C	[1986MIC/JOS]
	V		40.2	298	C	[1984MAJ/SVO2]
	V		39.4	313	C	[1984MAJ/SVO2]
	V		38.5	328	C	[1984MAJ/SVO2]
	V		37.7	343	C	[1984MAJ/SVO2]
	V		36.3	368	C	[1984MAJ/SVO2]
	V	(283–298)	40.5	298		[1979ARN/CHA]
	V	(340–426)	37.6	355	EB	[1987STE/MAL, 1957MCC/DOU]
	V		37.5 ± 0.1	346	C	[1957MCC/DOU]
	V		36.4 ± 0.1	366	C	[1957MCC/DOU]
	V		35.1 ± 0.1	388	C	[1957MCC/DOU]
	V	(320–388)	38.4	335	MG	[1953HER/MAR]
	V	(290–305)	41.8	298		[1934HIE/WOE]
	V	(333–347)	37.7	340		[1934HIE/WOE]
	V	(380–388)	36.6	384		[1934HIE/WOE]
	V	(258–389)	44.4	273		[1931VAN/MAN]
	V		33.6	390	C	[1901KAH2]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_5H_5NO	[142-08-5]	2-hydroxypyridine				
	SUB		86.6 ± 1.3	298	C	[1982SUR/SAI, 1986PED/NAY]
C_5H_5NO	[109-00-2]	3-hydroxypyridine				
	SUB		88.3 ± 1.3	298	C	[1982SUR/SAI, 1986PED/NAY]
C_5H_5NO	[626-64-2]	4-hydroxypyridine				
	SUB		118.6 ± 5.2	298	C	[1992RIB/MAT]
	SUB		103.8 ± 1.7	298	C	[1982SUR/SAI, 1986PED/NAY]
C_5H_5NO	[694-59-7]	pyridine *N*-oxide				
	SUB		79.3 ± 1.0	298		[1988SHA/PIL]
	V	(389–546)	59.4	404		[2012ZEN/CHE]
	V	(389–546)	66.6 ± 0.1	298		[2012ZEN/CHE]
$C_5H_5NO_2$	[13161-30-3]	2-hydroxypyridine *N*-oxide				
	SUB		89.4 ± 0.9	298	C	[2004RIB/MAT]
$C_5H_5NO_2$	[6602-28-4]	3-hydroxypyridine *N*-oxide				
	SUB	(345–392)	121.8 ± 4.4	298	ME	[1998RIB/MAT]
$C_5H_5NO_2$	[634-97-9]	pyrrole-2-carboxylic acid				
	SUB	(331–353)	98.6 ± 0.9	342	ME	[2009SAN/RIB]
	SUB	(331–353)	100.8 ± 0.9	298	ME	[2009SAN/RIB]
	SUB	(350–354)	126.8	352	ME	[1953BRA/CAR, 1960JON]
$C_5H_5NO_2$	[930-88-1]	*N*-methylmaleimide				
	SUB	(276–289)	75.3 ± 0.5	282	ME	[1997ROU/JIM]
	SUB	(276–289)	73.3 ± 0.5	298	ME	[1997ROU/JIM]
$C_5H_5NO_2$	[137-05-3]	2-cyanoacrylic acid, methyl ester				
	V	(258–283)	57.8	270	A	[1987STE/MAL, 1969WOO/ADI, 1972DYK]
$C_5H_5NO_2$	[16867-04-2]	2,3-dihydroxypyridine				
	SUB		109.1 ± 4.3	298	C	[2006MOR/MIR]
$C_5H_5N_3O$	[98-96-4]	pyrazine carboxamide (pyrazinamide)				
	FUS		27.1	465.7	DSC	[2015BLO/SHA]
	TRS		1.62	420.4		
	FUS		28.14	461.4	DSC	[2012LOU/MEL, 2013MEL/BOG]
	FUS		28.1	461.5	DSC	[2011CAS/RIB]
	TRS ($\alpha \rightarrow \gamma$)		1.63	420.1		
	TRS ($\delta \rightarrow \gamma$)		2.1	411.2		
	FUS (γ)		28.1	461.5	DSC	[2010CAS/MAR]
	FUS		30.28	463		[1960NEG/MIK2]
	SUB	(359–383)	112.6 ± 1.5	298	GS	[2015BLO/SHA]
	SUB		120.0 ± 2.1	298	C	[2005RIB/MIR]
	SUB	(353–383)	87.9	368	ME	[1987STE/MAL, 1960NEG/MIK, 1959HAR]
$C_5H_5N_3O_2$	[4214-76-0]	2-amino-5-nitropyridine				
	FUS	(80–395)	29.2	461.4	AC	[2007SHI/TAN2]
$C_5H_5N_5$	[73-24-5]	adenine				
	SUB	(338–380)	140.1 ± 1.1	359	QCM	[2015EME/ZAI2]
	SUB	(338–380)	143.8 ± 1.6	298	QCM	[2015EME/ZAI2]
	SUB	(452–492)	139.4 ± 0.7	472	GS	[2015EME/ZAI2]
	SUB	(452–492)	143.3 ± 1.4	298	GS	[2015EME/ZAI2]
	SUB	(305–360)	130 ± 2	330	QR, ME	[2006DEB/MED]
	SUB	(406–438)	144.2 ± 2.0	422	ME	[2000ZIE]
	SUB	(400–434)	137.7 ± 2.2	417	ME	[2000ZIE]
	SUB	(448–473)	109.2	460.5	A	[1987STE/MAL]
	SUB	(403–439)	127.2 ± 1.9		ME	[1984ZIE/ZIE]
	SUB		126.3		LE	[1975YAN/TEP, 1974YAN/VER]
	SUB		108.7 ± 8		ME	[1965CLA/PES, 1970COX/PIL]
$C_5H_5N_5O$	[73-40-5]	guanine				
	SUB	(325–405)	168.3 ± 0.6	365	QR, ME	[2006DEB/MED]
	SUB		186.2		LE	[1975YAN/TEP, 1974YAN/VER]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_5N_7O_{14}$	[20919-99-7] 1,1,1,3,5,5,5-heptanitropentane					
	SUB		114.2 ± 1.3	298	C	[2011MIR/KON]
	SUB		111.7	298		[1999MIR/VOR]
C_5H_5NO	[1003-29-8] 2-pyrrolecarboxaldehyde					
	SUB		78.6 ± 1.3	298	C	[2011SAN/RIB3]
C_5H_6	[542-92-7] 1,3-cyclopentadiene					
	FUS		8.01	176.6		[1996DOM/HEA, 1977LEB/LIT]
	V	(271–314)	28.2	286		[1967LES/OGO, 1984BOU/FRI]
	V	(291–314)	28.1	302	A, MM	[1987STE/MAL, 1965HUL/REI]
	V	(291–314)	28.4 ± 0.3	298	MM	[1965HUL/REI]
	V	(291–314)	27.6 ± 0.3	312	MM	[1965HUL/REI]
	V	(273–287)	29.7	298		[1965HUL/REI, 1933BAR/BUR]
C_5H_6	[6746-94-7] ethynylcyclopropane					
	V	(290–320)	31.1	305	A	[1987STE/MAL]
C_5H_6	[78-80-8] isopropenylacetylene					
	V		27.2			[1977LEB/RYA]
C_5H_6ClN	[32366-08-8] 4-chloro-3-pentenenitrile					
	V	(349–433)	63.9	364	A	[1987STE/MAL]
$C_5H_6Cl_2O_2$	[2873-74-7] glutaryl chloride					
	V	(329–490)	55.9	344	A	[1987STE/MAL, 1947STU]
$C_5H_6F_2N_4O_{10}$	[17003-79-1] bis(2-fluoro-2,2-dinitroethyl)formal					
	V	(323–365)	85.1	344		[1997MIN/BEH]
$C_5H_6F_3NO_3$	[383-72-2] glycine, *N*-(trifluoroacetyl) methyl ester					
	SUB	(293–463)	57.3	308		[1987STE/MAL, 1960WEY/KLI]
$C_5H_6F_6N_2S$	[62067-11-2] 2,2,2-trifluoro-*N*, *N*-dimethyl-*N*′-[(trifluoromethyl)thio]ethanimidamide					
	V		40.4	400	I	[1977BUR/SHR2]
$C_5H_6F_6O$	[58705-93-4] 1,1,1,2,3,3-hexafluoro-4-methoxybutane					
	V	(293–360)	37.0	308	I	[2002MUR/YAM]
$C_5H_6F_6N_2S$	[38005-19-5] dimethylamino(hexafluoroisoproplidenimino) sulfur					
	V		39.7	383	I	[1972MET/SHR]
$C_5H_6F_6O_2S$	[52225-49-7] trifluoromethanesulfinic acid, 2,2,2-trifluoro-1,1-dimethylethyl ester					
	V		35.6	388	HG	[1974MAJ/SHR]
$C_5H_6F_6O_5S_2$	[61915-97-7] 3,3-bis[(trifluoromethyl)sulfonyl]-1-propanol					
	V	(333–418)	32.8	348	A, I	[1987STE/MAL, 1977BUR/SHR, 1999DYK/SVO]
$C_5H_6N_2$	[7321-55-3] dimethylmalononitrile					
	TRS		9.87	302.6		
	FUS	(5–350)	4.05	307.5	AC	[1996DOM/HEA, 1967RIB/WES]
	SUB		62.0 ± 0.7	298		[1990BEC/DOG]
	V	(322–413)	47.5	337	A	[1987STE/MAL, 1967RIB/WES]
$C_5H_6N_2$	[109-08-0] 2-methylpyrazine					
	V	(342–373)	43.7 ± 1.9	298	CGC	[2009LIP/CHI2]
	V	(288–392)	42.4	340		[1995SAK/UEO]
$C_5H_6N_2$	[1632-76-4] 3-methylpyridazine					
	V		56.6 ± 2.5	298	CGC	[2010LIP/PLI]
	V	(342–373)	49.7 ± 2.8	298	CGC	[2009LIP/CHI2]
$C_5H_6N_2$	[3438-46-8] 4-methylpyrimidine					
	V		43.8 ± 2.6	298	CGC	[2010LIP/PLI]
	V	(342–373)	44.2 ± 2.4	298	CGC	[2009LIP/CHI2]
$C_5H_6N_2$	[544-13-8] glutaronitrile					
	FUS		12.03	242	DSC	[2007BAD/BLA]
	FUS		12.59	244.2		[1996DOM/HEA, 1965CLE/WUL]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(364–560)	60.1	379	A	[1987STE/MAL]
	V	(277–303)	66.8	290	A	[1987STE/MAL, 1972DYK, 1960WOO/MUR]
$C_5H_6N_2$	[504-29-0]	2-aminopyridine				
	FUS		15.3	331.5	DTA	[1998SAB/DAS]
	SUB		76.5 ± 0.4	298	C	[1998SAB/DAS]
	SUB	(233–323)	52.7	298	ME	[1991AUE/WEB]
[Note: Experimental value in [1991AUE/WEB] was referred to as an enthalpy of vaporization; however, the temperature range studied was below the melting point temperature.]						
	SUB		38.6 ± 1.9		DSC	[1985BRO/INI]
	SUB		78.7 ± 0.8	298	C	[1984BIC/PIL]
$C_5H_6N_2$	[462-08-8]	3-aminopyridine				
	FUS		14.4	335.5	DTA	[1998SAB/DAS]
	SUB		80.7 ± 0.3	298	C	[1998SAB/DAS]
	SUB	(233–323)	84.9	298	ME	[1991AUE/WEB]
[Note: Experimental value in [1991AUE/WEB] was referred to as an enthalpy of vaporization; however, the temperature range studied was below the melting point temperature.]						
	SUB		84.0 ± 1.4	298	C	[1984BIC/PIL]
$C_5H_6N_2$	[504-24-5]	4-aminopyridine				
	FUS		19.3	432.1	DTA	[1998SAB/DAS]
	FUS		20.07	429.9	DSC	[1990DON/DRE]
	SUB		87.1 ± 0.4	298	C	[1998SAB/DAS]
	SUB	(233–323)	90.0	298	ME	[1991AUE/WEB]
[Note: Experimental value in [1991AUE/WEB] was referred to as an enthalpy of vaporization; however, the temperature range studied was below the melting point temperature.]						
	SUB		53.8 ± 0.8		DSC	[1985BRO/INI]
	SUB		88.1 ± 1.1	298	C	[1984BIC/PIL]
$C_5H_6N_2OS$	[2361-27-5]	2-thiophenecarboxylic acid hydrazide				
	SUB	(339–361)	110.7 ± 0.5	350	ME	[2008RIB/AMA3]
	SUB	(339–361)	113.3 ± 0.5	298	ME	[2008RIB/AMA3]
$C_5H_6N_2OS$	[636-26-0]	5-methyl-2-thiouracil				
	SUB	(413–433)	131.0 ± 0.9	423	ME	[2013RIB/AMA]
	SUB	(413–433)	137.3 ± 0.9	298	ME	[2013RIB/AMA]
$C_5H_6N_2OS$	[56-04-2]	6-methyl-2-thiouracil				
	SUB	(421–447)	133.6 ± 0.9	439	ME	[2013RIB/AMA]
	SUB	(421–447)	140.7 ± 0.9	298	ME	[2013RIB/AMA]
$C_5H_6N_2O_2$	[615-77-0]	1-methyluracil				
	SUB	(343–428)	121.7 ± 4.0	439	TE	[2000BRU/PIA]
	SUB	(378–418)	112.5 ± 2.6	398	QR	[1980TEP/YAN]
	SUB	(435–480)	104.6 ± 8	457	HSA	[1978NOW/SZC]
$C_5H_6N_2O_2$	[608-34-4]	3-methyluracil				
	SUB	(344–419)	118.8 ± 3.0	382	TE	[2000BRU/PIA]
	SUB	(438–498)	75.3 ± 8	463	HSA	[1978NOW/SZC]
$C_5H_6N_2O_2$	[65-71-4]	5-methyluracil (thymine)				
	FUS		17.51	321.3		[1996DOM/HEA, 1889EYK]
	SUB	(409–472)	126.8 ± 0.3	298	GS	[2015EME/VER2]
	SUB	(409–428)	126.3 ± 1.2	298	GS	[2014ACH/EME]
	SUB	(305–355)	135.8 ± 0.4	330	QR, ME	[2006DEB/MED]
	SUB	(383–438)	125.7 ± 3.6	411	ME	[1984BUR/MOR]
	SUB		131.3 ± 4.0	298		[1984BUR/MOR]
	SUB	(378–428)	124.4 ± 1.3	403	QR	[1980TEP/YAN]
	SUB		138 ± 10	298	TE	[1980FER/BEN]
	SUB		134.1 ± 4.2	298	C	[1977NAB/SAB]
	SUB		124.3		LE	[1975YAN/TEP, 1974YAN/VER]
$C_5H_6N_2O_2$	[626-48-2]	6-methyluracil				
	SUB	(426–503)	131	298		[1980FER/BEN2]
$C_5H_6N_2O_2$	[3326-71-4]	2-furancarboxylic acid hydrazide				

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(309–325)	98.1 ± 0.7	317	ME	[2008RIB/AMA3]
	SUB	(309–325)	99.0 ± 0.7	298	ME	[2008RIB/AMA3]
C_5H_6O	[534-22-5]	2-methylfuran				
	FUS	(8–307)	8.55	181.9	AC	[1965CAR/WES]
	V		33.5 ± 0.2	298	C	[2010RIB/AMA]
	V	(289–337)	32.4	304		[2002LOR/AUC]
	V	(251–338)	34.4	266	A	[1987STE/MAL]
	V	(309–339)	31.5	324		[1986KRE/PRA]
	V	(288–303)	32.5	295		[1972DYK]
	V	(333–373)	30.9	348		[1971EON/POM, 1984BOU/FRI]
	V	(215–360)	32.2	298		[1970MOI/ANT]
	V	(213–293)	33.3	253	Static	[1965CAR/WES]
C_5H_6OS	[16839-97-7]	2-methoxythiophene				
	V	(278–323)	48.3 ± 0.3	298	GS	[2014TEM/NOT]
C_5H_6OS	[17573-92-1]	3-methoxythiophene				
	V	(278–325)	48.5 ± 0.2	298	GS	[2014TEM/NOT]
$C_5H_6O_2$	[591-12-8]	5-methyl-2(3*H*)-furanone				
	V	(324–442)	40.3	339	A	[1987STE/MAL]
$C_5H_6O_2$	[591-11-7]	(*dl*)-5-methyl-2(5*H*)-furanone				
	V	(356–481)	48.2	371	A	[1987STE/MAL]
$C_5H_6O_2$	[98-00-0]	furfuryl alcohol				
	FUS	(78–300)	13.1	258.6		[1996DOM/HEA, 1956PAR/KEN]
	FUS		14.8	253.3		[1996DOM/HEA, 1935MIL]
	V	(275–365)	55.7	298	Static	[2014BEN/NEG]
	V	(273–412)	58.6	298		[2014NEG/MOK]
	V	(304–443)	53.6	319	A	[1987STE/MAL, 1947KET/VAN]
$C_5H_6O_2$	[15441-65-3]	5-hydroxy-3-pentyn-2-one				
	V	(273–333)	64.4	288	A	[1987STE/MAL, 1972DYK, 1948RED/CHA5]
$C_5H_6O_3$	[108-55-4]	glutaric anhydride				
	SUB	(298–320)	85.9 ± 1.6	309	ME	[1990MEN/PIL]
	SUB	(298–320)	86.1 ± 1.6	298	ME	[1990MEN/PIL]
	V	(373–560)	60.9	388	A	[1987STE/MAL, 1947STU]
$C_5H_6O_3$	[4100-80-5]	(*dl*)-monmethylsuccinic anhydride				
	V	(342–521)	59.3	357	A	[1987STE/MAL, 1947STU]
$C_5H_6O_4$	[598-10-7]	1,1-cyclopropanedicarboxylic acid				
	FUS		17.4	413	DSC	[2011BOO/MON]
	SUB	(298–318)	126	308	ME	[2011BOO/MON]
$C_5H_6O_4$	[498-23-7]	*cis*-methylbutenedioic acid				
	FUS (I)		17.7	356.4		
	FUS (II)		25.3	365.3	DSC	[2010LEO/PIN]
$C_5H_6O_5$	[328-50-7]	α-ketoglutaric acid				
	FUS		28.59	388.7	DSC	[2005CON/CHI]
	SUB	(269–285)	100		TPTD	[2005CHA/ZIE]
[Note: Values based on TPTD method are not consistent with values determined by other experimental methods.]						
$C_5H_6O_5$	[542-05-2]	3-oxopentanedioic acid				
	SUB	(310–322)	160.2		TPTD	[2005CHA/ZIE]
[Note: Values based on TPTD method are not consistent with values determined by other experimental methods.]						
C_5H_6S	[554-14-3]	2-methylthiophene				
	FUS		9.47	207.8		[1956PEN/FIN]
	V	(333–373)	36.8	348	I	[1971EON/POM, 1984BOU/FRI]
	V		38.7	298		[1971WIL/ZWO]
	V	(324–391)	37.2	339	A, EB	[1987STE/MAL, 1952WHI/BAR, 1999DYK/SVO]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_5H_6S	[616-44-4]	3-methylthiophene				
	FUS		10.54	204.2		[1985DEA]
	V	(333–388)	37.3	348		[2009SAP/UUS]
	V	(326–398)	36.8	357		[1999DYK/SVO]
	V	(333–373)	37.4	348	I	[1971EON/POM, 1984BOU/FRI]
	V		39.5	298		[1971WIL/ZWO]
	V	(327–399)	37.5	342	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_5H_7ClO_3$	[54166-91-5]	acetic acid, chlorooxo, propyl ester				
	V	(282–396)	52.7	297	A	[1987STE/MAL, 1947STU]
$C_5H_7Cl_3O_2$	[17831-70-8]	3-chloro-2,2-bis(chloromethyl)propionic acid				
	FUS		20.9	383.9	DTA, DSC	[1999GOT/BUH]
$C_5H_7FO_2$	[406-23-5]	allyl fluoroacetate				
	V	(273–333)	48.9	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
$C_5H_7F_6OP$	[71009-82-0]	phosphinous acid, bis(trifluoromethyl)-, 1-methylethyl ester				
	V	(273–323)	35.2	298		[1979CAV/PIN]
$C_5H_7F_6OPS$	[71009-91-1]	phosphinothioic acid, bis(trifluoromethyl)-, *O*-(1-methylethyl) ester				
	V	(273–343)	32.7	308		[1979CAV/PIN]
$C_5H_7F_6OPS$	[71009-89-7]	phosphinothioic acid, bis(trifluoromethyl)-, *S*-(1-methylethyl) ester				
	V	(288–343)	39.1	316		[1979CAV/PIN]
$C_5H_7F_6PS$	[71009-84-2]	phosphinothious acid, bis(trifluoromethyl)-, 1-methylethyl ester				
	V	(288–333)	39.8	311		[1979CAV/PIN]
C_5H_7N	[4426-11-3]	cyclobutanecarbonitrile				
	V		44.3	298	C	[1983FUC/HAL]
	V	(328–402)	39.6	347	BG	[1971HAL/BAL]
	V		40.0 ± 0.4	298	BG	[1971HAL/BAL]
C_5H_7N	[1647-11-6]	2-ethylacrylonitrile				
	V	(244–387)	37.1	259	A	[1987STE/MAL, 1947STU]
C_5H_7N	[20068-02-4]	angelic acid, nitrile				
	V	(265–413)	42.8	280	A	[1987STE/MAL, 1947STU]
C_5H_7N	[96-54-8]	1-methylpyrrole				
	FUS	(12–365)	7.82	216.9	AC	[1996DOM/HEA, 1988MES/TOD]
	SUB		NA			[1941MIL]
	V		40.3 ± 2.5	298	CGC	[2010LIP/PLI]
	V	(333–373)	38	343	I	[1971EON/POM]
	V	(321–423)	39	336	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU, 1972DYK]
C_5H_7N	[25899-50-7]	(*Z*)-2-pentenenitrile				
	V		43.2	298		[1969KON/PRO]
C_5H_7N	[16529-66-1]	(*E*)-3-pentenenitrile				
	V		44.8	298		[1969KON/PRO]
C_5H_7N	[26294-98-4]	(*E*)-2-pentenenitrile				
	V		44.9	298		[1969KON/PRO]
C_5H_7N	[4635-87-4]	(*ZE*)-3-pentenenitrile				
	V	(339–417)	38.8	354		[2016WAN/YAO]
C_5H_7N	[30574-97-1]	tiglic acid, nitrile				
	V	(247–395)	37.4	262	A	[1987STE/MAL, 1947STU]
C_5H_7NO	[927-56-0]	4-oxo-pentanenitrile				
	V	(293–473)	52.3	308	A	[1987STE/MAL]
$C_5H_7NO_2$	[105-56-6]	ethyl cyanoacetate				
	FUS	(90–300)	11.78	246.8		[1996DOM/HEA, 1987KHO/BUG]
	V	(340–479)	66.9	355	A	[1987STE/MAL, 1947STU]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_7NO_2$	[1121-89-7]	glutarimide				
	SUB	(317–340)	93.6 ± 1.6	329	ME	[1990MEN/PIL]
	SUB	(317–340)	94.1 ± 1.6	298	ME	[1990MEN/PIL]
$C_5H_7NO_2$	[98-79-3]	L-pyroglutamic acid				
	TRS		0.53	341.2		
	FUS		16.79	435.2	DSC	[2010WU/REE]
[Note: DSC thermogram showed a peak of 1.83 kJ/mole at 427.2 K, which the authors attributed to a small amount of (*dl*)-pyroglutamic acid impurity.]						
$C_5H_7NO_2$	[1121-07-9]	*N*-methylsuccinimide				
	SUB	(280–298)	80.6 ± 0.3	289	ME	[1997ROU/JIM]
	SUB	(280–298)	80.1 ± 0.3	298	ME	[1997ROU/JIM]
$C_5H_7NO_3$	[149-87-1]	(*dl*)-5-oxoproline				
	SUB	(394–416)	133.2 ± 1	405	TE, ME	[1979DEK/VOO]
C_5H_7NS	[3386-97-8]	isothiocyanic acid, 3-butenyl ester				
	V	(342–443)	45.2	357	A	[1987STE/MAL, 1999DYK/SVO]
C_5H_7NS	[541-58-2]	2,4-dimethylthiazole				
	FUS		2.9	222.9	CR	[1966MEY/MET]
	V	(357–421)	42.0	372	A, EB	[1987STE/MAL, 1975SOU/BAR]
$C_5H_8N_2O_2$	[696-04-8]	5,6-dihydro-5-methyluracil				
	SUB	(379–401)	121.6 ± 0.7	390	ME	[2013AMA/SZT]
	SUB	(379–401)	124.0 ± 0.7	298	ME	[2013AMA/SZT]
$C_5H_8N_2O_2$	[2434-49-3]	5,6-dihydro-6-methyluracil				
	SUB	(371–393)	116.7 ± 0.8	382	ME	[2013AMA/SZT]
	SUB	(371–393)	118.8 ± 0.8	298	ME	[2013AMA/SZT]
$C_5H_7N_3$	[108-52-1]	2-amino-4-methylpyrimidine				
	SUB	(288–312)	88.5 ± 0.5	300	ME	[2013GAL/RIB]
	SUB	(288–312)	88.5 ± 0.5	298	ME	[2013GAL/RIB]
$C_5H_7N_3O$	[1122-47-0]	1-methylcytosine				
	SUB	(455–487)	141.2 ± 0.6		GS	[1998ZIE/WSZ]
	SUB	(423–443)	141.8 ± 8.8	433	ME	[1984BUR/MOR]
	SUB	(423–443)	149.1 ± 9.0	298	ME	[1984BUR/MOR]
$C_5H_7N_3O$	[4776-08-3]	3-methylcytosine				
	SUB	(487–526)	150.6		HSA	[1965CLA/PES]
$C_5H_7N_3O$	[1122-04-9]	3,5-dimethyl-4-nitrosopyrazole				
	SUB		102.9 ± 3.0	298	C	[2001RIB/FER]
$C_5H_7N_3O$	[873-50-7]	3-methyl-1-pyrazolecarboxamide				
	SUB	(290–310)	93.4 ± 1.1	300	ME	[2012RIB/CAB]
	SUB	(290–310)	93.5 ± 1.1	298	ME	[2012RIB/CAB]
$C_5H_7N_3O_2$	[20541-50-8]	1-methyl-*N*-hydroxycytosine				
	SUB		126.7 ± 1.5			[1998ZIE/WSZ]
$C_5H_7N_3O_2$	[2434-53-9]	6-amino-1-methyluracil				
	SUB	(457–470)	152.1 ± 3.7	464	ME	[2003ZIE/SZT]
	SUB	(459–471)	156.5 ± 4.9	465	ME	[2003ZIE/SZT]
	SUB		158.2	298	ME	[2003ZIE/SZT]
$C_5H_7N_3O_5$	[179894-08-7]	*N*-acetyl-3,3-dinitroazetidine				
	FUS		22.9	387.6	DSC	[2015LI/YAN]
	FUS		25.65	386.9		[1999MCK/STE]
C_5H_8	[185-94-4]	bicyclo[2.1.0]pentane				
	V		28.0 ± 0.5	298	EB	[1998KOL/PIM, 1996VAR/PAS]
	V	(296–315)	28.6	305	A	[1987STE/MAL]
C_5H_8	[157-40-4]	spiropentane				
	FUS		6.43	166.1		[1996DOM/HEA, 1950SCO/FIN2]
	V	(276–344)	28.6	291	A	[1987STE/MAL, 1950SCO/FIN]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		28.3 ± 0.1	283	C	[1950SCO/FIN2]
	V		27.5 ± 0.1	298	C	[1950SCO/FIN2]
	V		26.7 ± 0.1	312	C	[1950SCO/FIN2]
C_5H_8	[693-86-7]	vinylcyclopropane				
	V	(289–310)	28.9	299	A	[1987STE/MAL]
C_5H_8	[142-29-0]	cyclopentene				
	TRS		0.48	87.07		
	FUS		3.36	138.1		[1996DOM/HEA, 1948HUF/EAT]
	V	(249–318)	29.9	264	A	[1987STE/MAL]
	V	(289–318)	24.8	299	MM	[1950FOR/CAM]
	V	(230–293)	28.4	300		[1941LIS]
C_5H_8	[1120-56-5]	methylenecyclobutane				
	FUS	(12–301)	5.86	138.5	AC	[1996DOM/HEA, 1981FIN/MES, 1991ACR]
	FUS	(13–301)	5.76	138.5	AC	[1978LEB/TSV]
	V	(290–316)	26.1	303	A	[1987STE/MAL]
	V	(292–306)	29.1	299	A	[1987STE/MAL, 1978LEB/TSV, 1978LEB/TSV2]
	V		27.7 ± 0.4	298	EB	[1974GOO/MOO]
C_5H_8	[598-25-4]	3-methyl-1,2-butadiene				
	FUS		7.95	159.5		[1996DOM/HEA, 1970MES/TOD]
	V	(227–253)	31	240	A	[1987STE/MAL]
	V	(252–323)	29.9	267	A	[1987STE/MAL]
	V		28.0	298		[1971WIL/ZWO]
	V	(213–242)	31.6	230	IPM	[1969OSB/DOU]
	V	(274–319)	29.0	291	EB	[1969OSB/DOU]
C_5H_8	[78-79-5]	2-methyl-1,3-butadiene				
	FUS		4.86	127.2	DTA	[1994TAN/SAB3]
	FUS		4.92	127.3		[1996DOM/HEA, 1970MES/TOD]
	FUS	(20–300)	4.83	126.4		[1937BEK/WOO, 1965WAR/PET]
	V	(221–254)	29.4	239	A	[1987STE/MAL]
	V	(254–316)	28.3	269	A	[1987STE/MAL]
	V		26.4	298		[1971WIL/ZWO]
	V	(216–235)	31.5	225	IPM	[1969OSB/DOU]
	V	(290–308)	27.3	299	MM	[1950FOR/CAM]
	V	(258–318)	27.4	288		[1938KUC]
C_5H_8	[598-23-2]	3-methyl-1-butyne				
	V	(218–320)	30.2	233	A	[1987STE/MAL]
	V		25.8	298		[1971WIL/ZWO]
C_5H_8	[591-95-7]	1,2-pentadiene				
	FUS		7.56	135.9		[1996DOM/HEA, 1970MES/TOD]
	V	(231–249)	31.6	240	A	[1987STE/MAL]
	V	(249–331)	30.6	264	A	[1987STE/MAL]
	V		28.7	298		[1971WIL/ZWO]
	V	(213–245)	32.2	231	IPM	[1969OSB/DOU]
	V	(285–319)	29.1	300	MM	[1950FOR/CAM]
C_5H_8	[1574-41-0]	*cis*-1,3-pentadiene				
	FUS		5.64	132.4		[1996DOM/HEA, 1970MES/TOD]
	V	(255–326)	30.1	270	A	[1987STE/MAL]
	V	(230–255)	31.2	242	A	[1987STE/MAL]
	V		28.3	298		[1971WIL/ZWO]
	V	(213–242)	31.9	230	IPM	[1969OSB/DOU]
	V	(289–318)	28.8	304	MM	[1950FOR/CAM]
C_5H_8	[2004-70-8]	*trans*-1,3-pentadiene				
	FUS		7.14	185.7		[1996DOM/HEA, 1970MES/TOD]
	V	(228–256)	30.7	242	A	[1987STE/MAL]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(256–324)	29.5	271	A	[1987STE/MAL]
	V		27.8	298		[1971WIL/ZWO]
	V	(213–242)	31.3	230	IPM	[1969OSB/DOU]
	V	(292–316)	28.3	304	MM	[1950FOR/CAM]
C_5H_8	[591-93-5]	1,4-pentadiene				
	FUS		6.14	124.3		[1996DOM/HEA, 1936PAR/TOD2]
	V	(216–236)	29.1	226	A	[1987STE/MAL]
	V	(236–307)	28.1	251	A	[1987STE/MAL]
	V		25.2	298		[1971WIL/ZWO]
	V	(213–230)	29.3	221	IPM	[1969OSB/DOU]
	V	(288–300)	26.5	293	MM	[1950FOR/CAM]
	V	(194–255)	28.4	240		[1940LAM/ROP]
C_5H_8	[591-96-8]	2,3-pentadiene				
	FUS		6.13	147.5		[1996DOM/HEA, 1970MES/TOD]
	V	(234–258)	32.3	246	A	[1987STE/MAL]
	V	(258–330)	31.1	273	A	[1987STE/MAL]
	V		29.5	298		[1971WIL/ZWO]
	V	(213–247)	33.2	232	IPM	[1969OSB/DOU]
	V	(298–322)	29.6	310	MM	[1950FOR/CAM]
C_5H_8	[627-19-0]	1-pentyne				
	V	(229–315)	31.8	244	A	[1987STE/MAL]
	V		28.4	298		[1971WIL/ZWO]
C_5H_8	[627-21-4]	2-pentyne				
	V	(240–329)	33.1	255	A	[1987STE/MAL]
	V		30.8	298		[1971WIL/ZWO]
$C_5H_8Br_2$	[10230-26-9]	*trans*-1,2-dibromocyclopentane				
	V	(273–332)	47.9	288	A	[1987STE/MAL, 1941LIS]
$C_5H_8Br_4$	[3229-00-3]	pentarythritol tetrabromide				
	FUS		27.97	433.5		[1996DOM/HEA, 1965CLE/WON]
	SUB	(384–434)	84.0	399	A	[1987STE/MAL]
	SUB		NA		GSM	[1941NIT/SEK]
	V	(439–466)	61.0	452	A	[1987STE/MAL]
$C_5H_8ClFO_2$	[541-86-6]	3-chloro-4-fluorobutyric acid, methyl ester				
	V	(273–333)	54.5	288	GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
$C_5H_8ClF_3O$	[338-17-0]	2-chloro-1,1,2-trifluoroethyl isopropyl ether				
	V		39.2	298	C	[1984MAJ/UCH]
	V		38.1	313	C	[1984MAJ/UCH]
	V		37.0	324	C	[1984MAJ/UCH]
$C_5H_8ClF_3O$	[380-43-8]	2-chloro-1,1,2-trifluoroethyl propyl ether				
	V		41.0	298	C	[1984UCH/MAJ]
	V		39.9	313	C	[1984UCH/MAJ]
	V		38.7	328	C	[1984UCH/MAJ]
	V		37.5	343	C	[1984UCH/MAJ]
	V		36.2	358	C	[1984UCH/MAJ]
$C_5H_8Cl_2O$	[78-71-7]	3,3-bis(chloromethyl)oxetane				
	FUS		16.95	292.2		[1996DOM/HEA, 1962DAI/EVA]
	V		56.0 ± 0.4	298	C	[1971RIN/SUN]
$C_5H_8Cl_4$	[2467-10-9]	1,1,1,5-tetrachloropentane				
	V	(340–432)	61.7	355	A	[1987STE/MAL]
$C_5H_8F_2O_3$	[406-15-5]	bis(2-fluoroethyl) carbonate				
	V	(273–333)	61.5	288	GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
$C_5H_8F_4$	[338-23-8]	pentaerythritol tetrafluoride				
	TRS		13.21	249.4		

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		5.14	367.4		[1996DOM/HEA, 1964TRO/WES]
$C_5H_8F_4N_4O_2$	[298228-65-6]	4,4-bis(difluoroamino)-1-nitropiperidine				
	FUS		50.2	366.2	DSC	[2001OXL/SMI]
$C_5H_8N_2O_2$	[19947-75-2]	5-amino-3,4-dimethylisoxazole				
	SUB		87.9 ± 2.5			[1973HAM/MIT, 1977PED/RYL]
$C_5H_8N_2$	[1739-84-0]	1,3-dimethylimidazole				
	V	(317–369)	56.2	343	GS	[2013ZAI/YER]
	V	(317–369)	58.9 ± 0.2	298	GS	[2013ZAI/YER]
$C_5H_8N_2$	[7098-07-9]	1-ethylimidazole				
	V		57.5 ± 0.9	298	C	[2015VIT/AGA]
	V		57.4 ± 2.0	298	CGC	[2010LIP/PLI]
	V		66.0 ± 3.9	298	C	[1999RIB/RIB]
$C_5H_8N_2$	[1072-62-4]	2-ethylimidazole				
	SUB	(303–321)	89.2 ± 0.4	312	ME	[1992JIM/ROU]
	SUB	(303–321)	89.6 ± 0.4	298	ME	[1992JIM/ROU]
$C_5H_8N_2$	[2817-71-2]	1-ethylpyrazole				
	V		53.3 ± 2.4	298	C	[1999RIB/RIB]
$C_5H_8N_2$	[2721-32-6]	2,3-diazabicyclo[2.2.1]hept-2-ene				
	SUB		43.9 ± 2.1			[1974ENG/WOO, 1977PED/RYL]
	SUB		55.3 ± 0.6	298		[1976ENG/MEL]
$C_5H_8N_2$	[67-51-6]	3,5-dimethylpyrazole				
	SUB		83.4 ± 2.4	298	C	[2001RIB/FER]
	SUB		83.3 ± 0.2	301	ME	[1991ELG/YRA]
$C_5H_8N_2O$	[80-73-9]	1,3-dimethyl-2-imidazolidinone				
	V	(355–498)	54.3	375	EB	[1987KNE/ZON]
	V	(355–498)	48.5	450	EB	[1987KNE/ZON]
$C_5H_8N_2O_2$	[4526-77-6]	3-methyl-2,5-piperazinedione				
	FUS		30.6	543.9	DSC	[1997ABA/PAL]
$C_5H_8N_4O_6$	[298228-66-7]	1,4,4-trinitropiperidine				
	FUS		100.4	389.2	DSC	[2001OXL/SMI]
$C_5H_8N_4O_{12}$	[78-11-5]	pentaerythritol tetranitrate				
	FUS		27.1	402.5	DSC	[2010RAM/FEL]
	SUB	(356–382)	156.9 ± 0.8	369	TE	[2004LAU/HIL]
	SUB	(302–333)	158.2 ± 1.7	325	MS	[2004LAU/HIL]
	SUB		152.3		DSC	[1990HWA/YOS]
	SUB	(328–405)	150.4 ± 1.3	298	ME	[1978CUN/PAL]
	SUB		146 ± 12			[1978CUN/PAL, 1971DIN/STA]
	SUB		U121.3		ME	[1969CRI]
	SUB	(370–411)	151.9 ± 2.1			[1953EDW, 1960JON, 1970COX/PIL]
C_5H_8O	[120-92-3]	cyclopentanone				
	FUS		11.4	221.2	DSC	[1998GON/SZW]
	V	(323–403)	41.5	338	EB	[2006TEO/BAR]
	V		42.1 ± 0.2	298		[1991DIK/KAB]
	V		43.2 ± 0.3		GC	[1989AZA]
	V	(317–427)	40.6	332		[1987AMB/GHI2]
	V	(293–404)	42.6	308	A	[1987STE/MAL]
	V	(296–354)	41.3	315		[1983MAR/SHV]
	V	(360–410)	38.7	375		[1983MAR/SHV]
	V	(338–416)	39.6	353	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(283–313)	42.6 ± 0.4	298	VP	[1972WOL]
	V		42.7 ± 0.1	298	C	[1968PLA/WIL]
	V	(273–299)	43.6	286		[1942BEN/KIS]
C_5H_8O	[922-63-4]	2-ethylacrolein				
	V		36.8 ± 0.4	298	C	[1996VAN/YU]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_5H_8O	[765-43-5]	cyclopropyl methyl ketone				
	V	(361–387)	37.6	374	A	[1987STE/MAL]
	V		39.4			[1984KOZ/TIM]
	V		39.4 ± 0.1	298	C	[1983FUC/HAL]
	V		40.5 ± 0.5	298	C	[1981GAT/STR]
C_5H_8O	[25512-65-6]	dihydro-2*H*-pyran				
	V	(273–288)	32.2	280	A	[1987STE/MAL, 1972DYK, 1958CAS/FLE3]
C_5H_8O	[497-03-0]	*trans*-2-methyl-2-butenal				
	V	(248–390)	39.2	263	A	[1987STE/MAL, 1947STU]
C_5H_8O	[814-78-8]	3-methyl-3-buten-2-one				
	V	(313–371)	26.2	328	A	[1987STE/MAL, 1972DYK]
C_5H_8O	[115-19-5]	2-methyl-3-butyn-2-ol				
	V	(333–377)	41.0	353	A	[1999ZAR/CHA]
	V	(294–380)	43.9	337	A	[1987STE/MAL, 1972DYK]
	V	(294–380)	49.5	309		[1984BOU/FRI, 1950CON/ELV]
C_5H_8O	[1629-58-9]	1-penten-3-one				
	V	(303–376)	36.7	318	A	[1987STE/MAL]
C_5H_8OS	[1072-72-6]	tetrahydro-4*H*-thiopyran-4-one				
	SUB		73.4 ± 1.4	298	C	[2010FRE/GOM3]
	SUB		71.7 ± 1.7	317	I	[1972GEI/SAW]
	SUB		72.6 ± 1.7	298		[1972GEI/SAW, 1977PED/RYL]
$C_5H_8O_2$	[111-30-8]	glutaraldehyde				
	V	(347–382)	51.4	362		[1998OLS]
	V	(327–436)	56.2	342		[1998OLS]
$C_5H_8O_2$	[2868-37-3]	methyl cyclopropanecarboxylate				
	V	(273–313)	42.6 ± 0.4		GS	[1998VER/KUM]
	V		41.3 ± 0.1	298	C	[1983FUC/HAL]
$C_5H_8O_2$	[123-54-6]	2,4-pentanedione (acetylacetone)				
	V (diketone)		51.2 ± 2.2	298	CGC	[2005TEM/ROU]
	V (enol)		50.8 ± 0.6	298	CGC	[2005TEM/ROU]
	V	(307–414)	39.2	322	EB	[1985RAV/RAO]
	V	(295–313)	40.6	304		[1981INO/ARA]
	V	(378–411)	35.2	393	A, I, EB	[1987STE/MAL, 1972NAK/TOY]
	V	(288–378)	42.7	303	A, EB	[1987STE/MAL]
	V (84% enol)		41.8 ± 0.2	298	C	[1970IRV/WAD]
	V (100% enol)		43.2	298	C	[1970IRV/WAD]
	V	(297–398)	39.4	347		[1969MEL/MER]
$C_5H_8O_2$	[1522-20-9]	acetylacetone enol				
	FUS	(80–300)	14.5	254.8		[1969MEL/MER]
$C_5H_8O_2$	[600-14-6]	2,3-pentanedione				
	FUS		7.84	221.2	DSC	[2006DOM/MOR]
$C_5H_8O_2$	[565-63-9]	*cis*-2-methyl-2-butenoic acid				
	V	(361–458)	61.8	376	A	[1987STE/MAL]
$C_5H_8O_2$	[3586-58-1]	2-ethylpropenoic acid				
	V		52.1 ± 0.4	298	C	[1996VAN/YU]
$C_5H_8O_2$	[3586-58-1]	2-ethylacrylic acid				
	V	(320–453)	62.2	335	A	[1987STE/MAL, 1947STU]
$C_5H_8O_2$	[626-96-0]	4-oxovaleraldehyde (levulinaldehyde)				
	V	(301–460)	48.8	316	A	[1987STE/MAL, 1947STU]
$C_5H_8O_2$	[541-47-9]	3-methylcrotonic acid				
	V	(363–473)	57.7	378	A	[1987STE/MAL]
$C_5H_8O_2$	[140-88-5]	2-ethyl acrylate				
	V	(278–368)	39.5	298		[2013LOM/GIN]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(243–372)	41.4	258		[1947STU]
$C_5H_8O_2$	[140-88-5]	2-propenoic acid, ethyl ester				
	V		39.2			[1975VIL/PER]
$C_5H_8O_2$	[80-62-6]	methyl methacrylate				
	FUS		13.45	225.5	AC	[1985KAR/ABD]
	FUS	(60–300)	14.35	225.6		[1996DOM/HEA, 1971LEB/RAB2]
	SUB	(194–223)	60.7	205		[1952BYW, 1960JON]
	V	(295–386)	38.8 ± 0.1	300	EB	[2002STE/CHI4]
	V	(295–386)	36.3 ± 0.2	340	EB	[2002STE/CHI4]
	V	(295–386)	33.3 ± 0.4	380	EB	[2002STE/CHI4]
	V	(293–373)	37.9	308	A	[1987STE/MAL]
	V	(318–348)	37.7	333		[1984HUL/LU]
	V	(305–373)	38	320		[1984BOU/FRI]
	V		40.1			[1975VIL/PER]
	V	(312–362)	39	327		[1956VON/JEN]
$C_5H_8O_2$	[591-80-0]	4-pentenoic acid				
	V	(289–324)	65.8 ± 0.4	298	GS	[2008EME/VER]
$C_5H_8O_2$	[80-59-1]	*trans*-2-methyl-2-butenoic acid				
	V	(350–453)	61.2	365	A	[1987STE/MAL]
$C_5H_8O_2$	[542-28-9]	tetrahydro-2*H*-pyran-2-one (δ-valerolactone)				
	TRS	(15–309)	0.46	118		
	TRS	(15–309)	0.3	135		
	FUS	(15–309)	10.53	263	AC	[1991ACR, 1983LEB/YEV]
	V	(278–353)	58.2 ± 0.3	298	GS	[2007EME/KOZ]
	V	(393–428)	52.4 ± 0.2	410	EB	[1991WIB/WAL]
	V	(393–428)	60.2 ± 1.3	298	EB	[1991WIB/WAL]
	V		58.0 ± 0.4	298	C	[1990LEI/PIL2, 1989BRO/CON]
	V	(342–433)	48.6	387		[1930SCH/THO]
$C_5H_8O_2$	[29943-42-8]	2,3,5,6-tetrahydropyran-4-one				
	V		50.7 ± 0.3	298	C	[2009FRE/GOM2]
$C_5H_8O_2$	[108-29-2]	(*dl*)-γ-valerolactone				
	V	(276–350)	53.9 ± 0.2	298	GS	[2008EME/KOZ, 2009EME/VER]
	V		54.8 ± 0.4	298	C	[1990LEI/PIL2]
	V	(310–480)	53.5	325	A	[1987STE/MAL, 1947STU]
$C_5H_8O_2$	[105-38-4]	vinyl propanoate				
	V	(321–368)	36.7	336		[2005RES/GON]
$C_5H_8O_2S$	[6007-71-2]	2,5-dihydro-2-methyl-thiophene-1,1-dioxide				
	SUB		60.7 ± 2.5			[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_5H_8O_2S$	[1193-10-8]	2,5-dihydro-3-methyl-thiophene-1,1-dioxide				
	SUB		64.0 ± 2.5			[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_5H_8O_3$	[123-76-2]	4-oxopentanoic acid				
	V	(375–519)	74.4	390	A	[1987STE/MAL, 1947STU]
$C_5H_8O_3$	[105-45-3]	methyl acetoacetate				
	V	(289–446)	45.4	304	A	[1987STE/MAL]
$C_5H_8O_3$	[123-76-2]	levulinic acid				
	FUS		9.22	306.2		[1991ACR, 1983WEA]
	V	(328–373)	70.3 ± 0.7	298	GS	[2012VER/EME]
$C_5H_8O_3$	[4437-85-8]	butylene carbonate				
	V	(289–344)	63.2 ± 0.3	298	GS	[2008VER/TOK]
	V	(397–523)	63.8 ± 0.1	298	E	[2004CHE/CLE, 2008VER/TOK]
$C_5H_8O_4$	[108-59-8]	dimethyl malonate				

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(278–314)	57.5 ± 0.3	298	GS	[2006VER/KOZ]
	V	(351–460)	52.9 ± 0.2	360	EB	[2002STE/CHI6]
	V	(351–460)	49.5 ± 0.2	400	EB	[2002STE/CHI6]
	V	(351–460)	46.1 ± 0.3	440	EB	[2002STE/CHI6]
	V	(278–308)	61.8 ± 0.8	293	GS	[1992VER/BEC]
	V	(374–620)	50.0	497	EB, HG	[1988ASK/DAU]
	V	(308–454)	53.7	323	A	[1987STE/MAL]
$C_5H_8O_4$	[110-94-1]	glutaric acid				
	FUS		22.04	369	DSC	[2010BOO/BAR]
	FUS		21.53	369.1	DSC	[2010WAN/LAI, 2012WAN/LI]
	TRS		2.34	349.2		
	FUS		21.3	372.3	DSC	[2009HA/HAN]
	FUS		20.7	370.9	DSC	[2009GOO/ROD]
	TRS		2.3	340.5		
	FUS		18.8	363.9	DSC	[2005ROU/TEM]
	TRS		2.4	338		
	FUS		23.0	371	DSC	[2002STE/CHI6]
	TRS		2.46	348.5		
	FUS		20.9	371		[1991ACR, 1974CIN/BER]
	SUB		123 ± 22		ME, MS	[2009BOO/MAR]
	SUB	(313–349)	134 ± 4		TPD	[2007CAP/LOV]
	SUB	(275–294)	132.3		TPTD	[2005CHA/ZIE]
[Note: Values based on TPTD method are not consistent with values determined by other experimental methods.]						
	SUB	(348–363)	117.0 ± 1.2	356	ME	[1999RIB/MON]
	SUB	(348–363)	119.8 ± 1.2	298	ME	[1999RIB/MON]
	SUB	(292–320)	U52.6	306	A	[1947GRA]
	V	(424–503)	101.6	298	GS	[2005ROU/TEM]
	V	(428–576)	98.1	443	A	[1987STE/MAL, 1947STU]
$C_5H_8O_4$	[601-75-2]	ethylmalonic acid				
	SUB	(348–362)	112.8 ± 2.2	298	ME	[2000RIB/MON]
	SUB		105.5 ± 0.5		C	[1983ALT/PIL]
$C_5H_8O_4$	[595-46-0]	dimethylmalonic acid				
	SUB	(347–363)	111.7 ± 2.1	298	ME	[2000RIB/MON]
$C_5H_8O_4$	[498-21-5]	2-methylbutanedioic acid				
	FUS		9.98	383	DSC	[2010BOO/BAR]
	SUB	(343–360)	121.7 ± 2.3	298	ME	[2001RIB/MON2]
$C_5H_8O_4$	[628-51-3]	diacetoxymethane				
	V	(283–318)	56.4 ± 0.3	298	GS	[1996VER/PEN]
	V	(334–443)	50.6	349	A	[1987STE/MAL, 1962JON]
$C_5H_8O_5$	[597-44-4]	2-methyl-2-hydroxysuccinic acid				
	FUS		35.7	379	DSC	[2010BOO/BAR]
C_5H_9BrO	[815-48-5]	3-bromo-2-pentanone				
	V	(273–333)	45.2	288	A	[1987STE/MAL, 1972DYK, 1948RED/CHA]
C_5H_9Cl	[930-28-9]	cyclopentyl chloride				
	TRS	(6–300)	7.63	169.4		
	FUS	(6–300)	0.64	180	AC	[1993DIK/KAB]
	V		38.8 ± 0.4	298	C	[1993DIK/KAB]
	V	(322–387)	37.4	337	A, EB	[1987STE/MAL, 1970AND/BRA]
$C_5H_9ClO_2$	[5396-24-7]	propyl chloroacetate				
	TRS	(77–240)	0.36	110		
	TRS	(77–240)	0.69	204		
	TRS	(77–240)	0.17	207		
	FUS	(77–240)	13.0	240	DSC	[1990MID/KAT]
$C_5H_9ClO_2$	[105-48-6]	isopropyl chloroacetate				
	V	(308–425)	44.3	323		[1928NEL2, 1984BOU/FRI]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_9ClO_2$	[535-13-7]	2-chloropropionic acid, ethyl ester				
	V	(279–420)	46.5	294	A	[1987STE/MAL, 1947STU]
$C_5H_9ClO_2$	[623-71-2]	3-chloropropionic acid, ethyl ester				
	V	(316–358)	56.0	331	A	[1987STE/MAL]
C_5H_9ClS	[19155-35-2]	(2-chloroethyl) allyl sulfide				
	V	(293–333)	50.2	308	A, GS	[1987STE/MAL, 1949WAD/SMI, 1972DYK, 1999DYK/SVO]
$C_5H_9Cl_3O$	[1067-09-0]	2-chloromethyl-2-methyl-1,3-dichloropropane				
	TRS		12	246.6		
	FUS		2.5	291.3	DTA, DSC	[1996DOU/FUE]
$C_5H_9Cl_3O$	[813-99-0]	3-chloro-2,2-bis(chloromethyl)-1-propanol				
	V	(404–450)	79.6	419	A	[1987STE/MAL]
C_5H_9FOS	[63732-24-1]	4-fluorothiobutyric acid, methyl ester				
	V	(273–333)	52.4	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK, 1999DYK/SVO]
$C_5H_9FO_2$	[406-20-2]	4-fluorobutyric acid, methyl ester				
	V	(273–333)	47.3	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
$C_5H_9FO_2$	[406-06-4]	isopropyl fluoroacetate				
	V	(273–333)	44.3	288	A, GS	[1987STE/MAL, 1948RED/CHA4]
$C_5H_9FO_3$	[25309-12-0]	3-fluoro-2-hydroxybutryic acid, methyl ester				
	V	(273–333)	62.3	288	GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
C_5H_9N	[630-18-2]	2,2-dimethylpropanenitrile (pivalonitrile)				
	TRS	(5–350)	0.23	213		
	TRS	(5–350)	1.91	232.7		
	FUS	(5–350)	9.29	292.1	AC	[1996DOM/HEA, 1967WES/RIB]
	V	(299–365)	37.0	318	BG	[1971HAL/BAL]
	V		37.4 ± 0.1	298	C	[1970HOW/WAD]
	V	(313–371)	36.5	328	A, I	[1987STE/MAL, 1967WES/RIB]
	V	(313–371)	37.8	298	I	[1967WES/RIB]
C_5H_9N	[18936-17-9]	2-methylbutyronitrile				
	V	(274–313)	42.5 ± 0.3		GS	[1994RAK/VER]
C_5H_9N	[110-59-8]	valeronitrile				
	V	(313–418)	42.3	328	A	[1987STE/MAL]
	V		43.6 ± 0.1	298	C	[1970HOW/WAD]
	V		44.3	298		[1969KON/PRO]
	V	(342–414)	44.2		EB	[1949DRE/SHR, 1949DRE/MAR, 2005EME/VER]
	V	(394–439)	44.1 ± 0.2	298	MM	[1933HEI, 2005EME/VER]
	V		33.4	402	C	[1901KAH]
C_5H_9NO	[872-50-4]	*N*-methyl-2-pyrrolidone				
	FUS		11.04	249	DSC	[2005DOM/LAC]
	FUS		18.1	248.5	DSC	[2000LIS/JAM]
	V	(430–474)	47.4	445	EB	[2012RED/KUM]
	V	(380–475)	49.5	395	EB	[2007PAL/ORA2]
	V	(352–378)	61.9	298	EB	[2004CHY/FRA2]
	V	(415–475)	49.1	430		[1997BLA/BEL]
	V	(330–373)	53.1	345	GS	[1996LIN/WIC]
	V	(340–476)	53.4	350	EB	[1987KNE/ZON]
	V	(340–476)	47.7	425	EB	[1987KNE/ZON]
	V	(291–299)	55.3	295	A	[1987STE/MAL]
	V	(333–473)	49.3	403		[1979BLU/BAE]
	V	(361–477)	49.2	376	A	[1987STE/MAL, 1972DYK, 1966GAN/SEM]
C_5H_9NO	[111-36-4]	butyl isocyanate				
	V	(293–388)	38.5	308		[2004AHM/GIE]
	V	(273–389)	46.8	288	A	[1987STE/MAL, 1974ZHU/MON]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_5H_9NO	[1873-29-6]	isobutyl isocyanate				
	V	(273–376)	44.2	288	A	[1987STE/MAL, 1974ZHU/MON]
C_5H_9NO	[3887-02-3]	*N*-methyl methacrylamide				
	V	(355–489)	60.9	370	A	[1987STE/MAL]
C_5H_9NO	[15856-96-9]	*cis*-2-pentenoic acid amide				
	SUB	(323–333)	106.5	328	A	[1987STE/MAL]
	V	(343–384)	74.8	358	A	[1987STE/MAL]
C_5H_9NO	[197641-67-1]	*trans*-2-pentenoic acid amide				
	SUB	(353–383)	57.9	368	A	[1987STE/MAL]
C_5H_9NO	[76474-09-4]	α-methoxyisobutyronitrile				
	V	(261–285)	37.4 ± 0.8	298	GS	[1995VER/BEC]
C_5H_9NO	[14631-45-9]	2-ethoxypropanenitrile				
	V	(348–445)	46.7	363	A, EB	[1987STE/MAL, 1976RAO/CHI]
C_5H_9NO	[675-20-7]	2-piperidone (δ-valerolactam)				
	FUS	(60–350)	10.5	311.85		[1990DOM/HEA, 1959KOL/PAU, 1962KOL/PAU]
	SUB		78.7 ± 1.3	298	C	[2006RIB/CAB]
	SUB	(293–312)	74.5	302	A	[1987STE/MAL]
	SUB	(293–312)	74.5	303		[1953AIH, 1960JON, 1960AIH2]
	V	(313–343)	70.5 ± 0.4	298	GS	[2012EME/VER]
C_5H_9NO	[10431-98-8]	2-ethyl-2-oxazoline				
	V		44.2 ± 0.4	298	C	[1976HAM/THO]
$C_5H_9NO_2$	[147-85-3]	L-(*l*)-proline				
	SUB	(396–416)	127.4 ± 1.0	406	TE, ME	[1979DEK/VOO]
	SUB	(380–420)	149 ± 4	400	C	[1978SAB/LAF]
	SUB	(323–423)	U50 ± 8	373	LE	[1977GAF/PIE]
$C_5H_9NO_2$	[4394-85-8]	*N*-formylmorpholine				
	V		56.9	416		[1989PAR/GME]
	V	(375–423)	52.7	399	TGA	[1987ALN/ALS]
$C_5H_9NO_3$	[51-35-4]	*trans*-4-hydroxy-L-proline				
	SUB	(461–481)	162.6 ± 2	471	TE, ME	[1979DEK/VOO]
$C_5H_9NO_3S$	[616-91-1]	*N*-acetyl-L-cysteine				
	FUS (I)		16.07	379.9	DSC	[2013KUM/NAN]
	FUS (II)		20.37	374.7	DSC	[2013KUM/NAN]
	FUS		32.10	382.0	DSC	[2013DOS/MOR]
$C_5H_9NO_4$	[56-86-0]	(*l*)-glutamic acid				
	SUB	(353–453)	U121 ± 34	403	LE	[1977GAF/PIE]
$C_5H_9N_3$	[33670-50-7	azidocyclopentane				
	V	(276–333)	41.3 ± 0.4	298	GS	[2011VER/EME2]
$C_5H_9N_3O_6$	[16596-48-8]	1,1,1-trinitropentane				
	V		72.0 ± 0.8	298	C	[2011MIR/KON]
$C_5H_9N_3O_7$	[26459-85-8]	2-ethoxy-1,1,1-trinitropropane				
	V	(293–310)	57.7	301	A	[1987STE/MAL]
$C_5H_9N_3O_9$	[3032-55-1]	2-hydroxymethyl-2-methyl-1,3-propanediol trinitrate				
	V	(299–345)	88.1	314	A	[1987STE/MAL]
$C_5H_9N_3O_9$	[98071-55-7]	1,2,5-pentanetriol trinitrate				
	V	(293–313)	41.7 ± 2.1	303	A, GS	[1987STE/MAL, 1957KEM/GOL]
C_5H_{10}	[1630-94-0]	1,1-dimethylcyclopropane				
	V		25.1 ± 0.8	298	EB	[1974GOO/MOO]
C_5H_{10}	[287-92-3]	cyclopentane				
	TRS		5.19	121.9		

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		0.36	138.2		
	FUS		0.62	178.2	AC	[1992RAH/GME]
	TRS		4.91	122.4		
	FUS		0.57	179.6		[1952KAA/COO]
	TRS		4.89	122.4		
	TRS		0.34	138.1		
	FUS		0.60	179.7		[1996DOM/HEA, 1947SZA/MOR]
	FUS		0.57	179.7	AC	[1947AST/FIN]
	TRS	(12–300)	4.89	122.4		
	TRS	(12–300)	0.34	138.1		
	FUS	(12–300)	0.61	179.7		[1946DOU/HUF2]
	TRS	(13–293)	4.87	122.4		
	TRS	(13–293)	0.35	138.1		
	FUS	(13–293)	0.60	179.7		[1943AST/FIN]
	TRS		4.75	121.6		
	TRS		0.36	137.1		
	FUS		0.60	179.0		[1934JAC/PAR]
	SUB		42.6	122	B	[1963BON]
	V	(280–331)	29.2	295	A	[1987STE/MAL]
	V	(322–384)	28.0	337	A	[1987STE/MAL]
	V	(381–455)	27.2	396	A	[1987STE/MAL]
	V	(452–511)	27.5	467	A	[1987STE/MAL]
	V		28.5	298		[1971WIL/ZWO]
	V		28.5 ± 0.1	298	C	[1959MCC/PEN]
	V		27.9 ± 0.1	310	C	[1959MCC/PEN]
	V		27.3 ± 0.1	322	C	[1959MCC/PEN]
	V		27.4	323		[1946SPI/PIT]
	V	(289–323)	29.0	304	MM	[1945WIL/TAY]
	V		29.2	298	C	[1943AST/FIN]
C_5H_{10}	[109-67-1]	1-pentene				
	FUS		5.78	108.0	DTA	[1994TAN/SAB3]
	FUS		5.94	108.0		[1990MES/TOD]
	FUS		5.81	107.9		[1991ACR, 1983WEA, 1947TOD/OLI]
	V	(218–311)	29.1	233	A	[1987STE/MAL]
	V	(286–304)	26.7	295	MM	[1950FOR/CAM]
	V		25.5	298		[1971WIL/ZWO]
	V	(273–334)	26.9	288		[1949SCO/WAD]
	V		26.2 ± 0.1	284	C	[1949SCO/WAD]
	V		25.5 ± 0.1	298	C	[1949SCO/WAD]
	V		25.2 ± 0.1	303	C	[1949SCO/WAD]
	V	(273–308)	26.3	290		[1948DAY/NIC]
	V	(313–368)	25.7	341		[1948DAY/NIC]
C_5H_{10}	[627-20-3]	*cis*-2-pentene				
	FUS		7.11	121.8		[1991ACR, 1983WEA, 1983CHA/HAL, 1947TOD/OLI]
	V	(234–318)	29.8	249	A	[1987STE/MAL]
	V		26.8	298		[1971WIL/ZWO]
	V	(274–341)	28.1	289	EB	[1950SCO/WAD]
C_5H_{10}	[646-04-8]	*trans*-2-pentene				
	FUS		8.35	133		[1991ACR, 1983WEA, 1983CHA/HAL, 1947TOD/OLI]
	V	(251–341)	28.8	266	A	[1987STE/MAL]
	V		26.7	298		[1971WIL/ZWO]
	V	(274–341)	28	289	EB	[1950SCO/WAD]
C_5H_{10}	[563-46-2]	2-methyl-1-butene				
	FUS		7.91	135.6		[1996DOM/HEA, 1947TOD/OLI]
	V	(240–336)	28.5	255	A	[1987STE/MAL]
	V		25.9	298		[1971WIL/ZWO]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(274–336)	27.3	289		[1949SCO/WAD]
	V		25.9 ± 0.1	298	C	[1949SCO/WAD]
	V		25.5 ± 0.1	304	C	[1949SCO/WAD]
C_5H_{10}	[563-45-1]	3-methyl-1-butene				
	FUS		5.36	104.7		[1996DOM/HEA, 1947TOD/OLI]
	V	(237–324)	26.3	252	A	[1987STE/MAL]
	V		23.9	298		[1971WIL/ZWO]
	V	(273–324)	25.4	288	EB	[1950SCO/WAD]
C_5H_{10}	[513-35-9]	2-methyl-2-butene				
	FUS		7.59	139.4		[1996DOM/HEA, 1947TOD/OLI]
	V	(271–343)	28.4	286	A	[1987STE/MAL]
	V		27.1	298		[1971WIL/ZWO]
	V	(276–344)	28.3	291		[1949SCO/WAD]
	V		27.5 ± 0.1	290	C	[1949SCO/WAD]
	V		27.1 ± 0.1	298	C	[1949SCO/WAD]
	V		26.3 ± 0.1	312	C	[1949SCO/WAD]
$C_5H_{10}Br_2$	[13320-56-4]	1,1-dibromopentane				
	V	(360–501)	48.8	375	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_5H_{10}Br_2$	[3234-49-9]	1,2-dibromopentane				
	V	(348–465)	46.5	363	A	[1987STE/MAL]
	V	(350–450)	49	298		[1975PIS/ROZ, 1991BAS/SVO]
	V		49.2 ± 0.8	298	EB	[1975PIS/ROZ]
	V	(292–448)	48.8	307	A	[1987STE/MAL, 1947STU]
$C_5H_{10}Br_2$	[626-87-9]	1,4-dibromopentane				
	V	(377–524)	51.8	392	A	[1987STE/MAL, 1972DYK]
$C_5H_{10}Br_2$	[111-24-0]	1,5-dibromopentane				
	V	(396–549)	54.4	411	A	[1987STE/MAL, 1972DYK]
$C_5H_{10}Br_2O_2$	[3296-90-0]	2,2-bis(bromomethyl)-1,3-propanediol				
	FUS		30.1	387.3	DTA, DSC	[1996DOU/FUE]
$C_5H_{10}ClNO$	[2895-21-8]	2-chloro-*N*-isopropylacetamide				
	FUS		26.05	351.3	DSC	[1990DON/DRE]
$C_5H_{10}Cl_2$	[820-55-3]	1,1-dichloropentane				
	V	(340–410)	44.3	298	A	[1987VAR/LOS2, 1991BAS/SVO]
	V	(325–457)	42.0	340	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_5H_{10}Cl_2$	[1674-33-5]	1,2-dichloropentane				
	V	(330–420)	44.4	298		[1991BAS/SVO]
	V	(332–418)	41.9	347	A	[1987STE/MAL]
	V		43.9 ± 0.2	298	C	[1980VAR/PIS]
	V		43.8 ± 0.7	298	EB	[1975PIS/ROZ2]
$C_5H_{10}Cl_2$	[626-92-6]	1,4-dichloropentane				
	V	(350–440)	48.9	298		[1991BAS/SVO]
	V	(348–443)	45.0	363	A	[1987STE/MAL]
	V		48.1 ± 0.8	298	EB	[1975PIS/ROZ2]
$C_5H_{10}Cl_2$	[628-76-2]	1,5-dichloropentane				
	V	(360–450)	52.2	298		[1991BAS/SVO]
	V	(362–453)	47.2	377	A	[1987STE/MAL]
	V		50.7 ± 0.2	298	C	[1980VAR/PIS]
	V		51.3 ± 0.8	298	EB	[1975PIS/ROZ2]
$C_5H_{10}Cl_2$	[29559-55-5]	1,3-dichloro-2,2-dimethylpropane				
	TRS		0.6	193.8		
	TRS		3.6	198.4		
	FUS		1.6	262.2	DTA, DSC	[1999GOT/BUH]
$C_5H_{10}Cl_2O$	[52250-75-6]	(2-chloroethyl)-(2-chloroisopropyl) ether				
	V	(297–453)	49.7	312	A	[1987STE/MAL, 1947STU]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{10}Cl_2O$	[42434-29-7]	(2-chloroethyl)-(2-chloropropyl) ether				
	V	(302–467)	49.3	317	A	[1987STE/MAL, 1947STU]
$C_5H_{10}Cl_2O_2$	[111-91-1]	bis(2-chloroethoxy) methane				
	V	(326–488)	54.2	341	A	[1987STE/MAL, 1947STU]
$C_5H_{10}F_2$	[62127-40-6]	1,1-difluoropentane				
	V	(268–378)	34.4	283	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_5H_{10}F_2$	[371-65-3]	2,2-difluoropentane				
	V	(262–367)	33.7	277	A	[1987STE/MAL, 1972DYK]
$C_5H_{10}F_2$	[358-03-2]	3,3-difluoropentane				
	V	(262–368)	33.8	277	A	[1987STE/MAL, 1972DYK]
$C_5H_{10}F_2O_2$	[373-40-0]	bis(2-fluoroethoxy) methane				
	V	(273–333)	52.3	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1972DYK]
$C_5H_{10}N_2$	[1738-25-6]	3-(dimethylamino)propionitrile				
	V	(330–445)	45.9	345	A	[1987STE/MAL]
	V	(331–407)	52.4	346	A	[1987STE/MAL]
	V	(290–317)	44.1 ± 0.2			[1984LEB/GUT2]
	V		47.3			[1977VAS/KOT]
$C_5H_{10}N_2O$	[100-75-4]	1-nitrosopiperidine				
	V	(333–383)	47.7	348	A	[1987STE/MAL, 1974GOL/PEP]
$C_5H_{10}N_2O_2$	[7606-79-3]	*N*-acetylglycine, *N*-methylamide				
	FUS		23.64	430.7	DSC	[2014BAD/DEL]
	SUB	(348–363)	97.8	355.5	A	[1987STE/MAL, 1955AIH]
$C_5H_{10}N_2O_2$	[15962-47-7]	*N*-acetyl-L-alanine amide				
	FUS		23.6	436.4	DSC	[1997ABA/PAL]
	FUS		21.7	431	DSC	[1996DOM/HEA, 1988FER/DEL]
	SUB		115.0 ± 1.2	376	C	[1999DEL/BAR]
	SUB		118.1 ± 1.6	298		[1999DEL/BAR]
	SUB	(366–410)	115 ± 3	388	TE	[1988FER/DEL, 1986BAR/FER]
$C_5H_{10}N_2O_2$	[95048-77-4]	*N*-acetylsarcosinamide				
	FUS		27.4	412.7	DSC	[1997PUL/DES]
$C_5H_{10}N_2O_2$	[3424-60-0]	glutaramide				
	FUS		38.4	453.9	DSC	[2006BAD/DEL]
$C_5H_{10}N_2O_2$	[7119-94-0]	1-nitropiperidine				
	V		52.7 ± 0.8	298	C	[2009MIR/KON]
$C_5H_{10}N_2O_2S$	[16752-77-5]	5-methyl *N*-(methylcarbamoyloxy)thioacetimidate				
	FUS		21.73	352.7	DSC	[1990DON/DRE]
$C_5H_{10}N_2O_3$	[1188-01-8]	alanylglycine				
	FUS (decomp)		56.6	508	DSC	[1996DOM/HEA, 1990BAD/KUL]
$C_5H_{10}N_2O_3$	[56-85-9]	L-α-glutamine				
	FUS		29.0	455.4	DSC	[2010CON/NEA]
$C_5H_{10}N_2O_4$	[3759-56-6]	1,1-dinitropentane				
	V		64.4 ± 0.8	298	C	[2011MIR/KON]
$C_5H_{10}N_2O_6$	[3457-92-9]	1,5-pentanediol dinitrate				
	FUS		15.5	256.6	FPM	[1957KEM/GOL]
	V	(293–313)	78.9 ± 5.9	303	A, GS	[1987STE/MAL, 1957KEM/GOL, 1972DYK]
$C_5H_{10}N_2O_6$	[25385-63-1]	2,4-pentanediol dinitrate				
	FUS		24.2	254.7	FPM	[1957KEM/GOL]
	V	(293–313)	60.6 ± 5.9	303	A, GS	[1987STE/MAL, 1957KEM/GOL, 1972DYK]
$C_5H_{10}N_2O_6$	[67727-92-8]	1-(methoxymethoxy)-2,2-dinitropropane				
	V	(293–333)	71.3	308	A	[1987STE/MAL]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{10}N_4O_4$	[5754-90-5]	1,3-dinitro-1,3-diazacycloheptane				
	TRS		21.8	369		
	FUS		2.8	374		[1991PIC/RYL]
$C_5H_{10}O$	[557-31-3]	allyl ethyl ether				
	V	(244–401)	34.6	259	A	[1987STE/MAL]
$C_5H_{10}O$	[616-25-1]	1-penten-3-ol				
	V		49.9 ± 0.1	313	C	[1996ULB/KLU]
	V		48.4 ± 0.1	328	C	[1996ULB/KLU]
	V		46.8 ± 0.1	343	C	[1996ULB/KLU]
$C_5H_{10}O$	[556-82-1]	3,3-dimethyl-2-propen-1-ol				
	V	(348–372)	48.7	360	EB	[1989WAN/YIN]
$C_5H_{10}O$	[115-18-4]	2-methyl-3-buten-2-ol				
	TRS	(5–370)	0.17	88.1		
	FUS	(5–370)	5.20	245.0	AC	[2015ZAI/PAU]
	V	(280–320)	48.5 ± 0.1	298	Static	[2015ZAI/PAU]
	V		47.6 ± 1.6	298	C	[2015ZAI/PAU]
	V	(322–370)	42.2 ± 0.4	350	EB	[2003LEI/LI, 2015ZAI/PAU]
	V	(322–370)	47.8 ± 0.5	298	EB	[2003LEI/LI, 2015ZAI/PAU]
	V	(333–370)	40.1 ± 1.4	352	EB	[1999ZAR/CHA2, 2015ZAI/PAU]
	V	(333–370)	46.0 ± 1.4	298	EB	[1999ZAR/CHA2, 2015ZAI/PAU]
	V	(327–364)	42.8 ± 0.6	346	EB	[1992RAA/BRO, 2015ZAI/PAU]
	V	(327–364)	48.0 ± 0.7	298	EB	[1992RAA/BRO, 2015ZAI/PAU]
	V	(290–372)	43.1 ± 0.1	331		[1988BAG/GUR]
	V	(345–390)	40.6	369	Static	[1986PAV/PES, 2015ZAI/PAU]
	V	(345–390)	48.3	298	Static	[1986PAV/PES, 2015ZAI/PAU]
	V	(358–379)	41.6	369	EB	[1974BLA/OGO, 2015ZAI/PAU]
	V	(358–379)	49.3	298	EB	[1974BLA/OGO, 2015ZAI/PAU]
$C_5H_{10}O$	[763-32-6]	3-buten-3-methyl-1-ol				
	V	(338–409)	55.6	353	A	[1987STE/MAL]
$C_5H_{10}O$		(*dl*)-3-buten-3-methyl-2-ol				
	V	(358–379)	41.0	368	A	[1987STE/MAL]
$C_5H_{10}O$	[96-41-3]	cyclopentanol				
	TRS	(78–300)	3.71	202.8		
	FUS	(78–300)	1.54	257.4		[1996DOM/HEA, 1956PAR/KEN]
	V	(323–373)	57.1	298	CGC	[1995CHI/HOS]
	V	(346–437)	52.7	361	A, EB	[1987AMB/GHI2]
	V	(283–321)	56.1	298	A	[1987STE/MAL]
	V	(283–323)	56.4	298	A	[1987STE/MAL]
	V	(279–314)	57.1	294		[1975CAB/CON2]
	V		57.5 ± 0.2	298	C	[1968PLA/WIL]
	V		57.5 ± 0.3	298	C	[1966WAD]
$C_5H_{10}O$	[142-68-7]	tetrahydropyran				
	V	(286–361)	36	301		[2006ROD/GIN]
	V		38.2 ± 1.1	298	DSC	[2005ROJ/GIN]
	V	(335–412)	33.2	350		[2000ROD/ART]
	V	(273–362)	35.0	288	A	[1987STE/MAL]
	V	(273–288)	35.0	281		[1972DYK, 1958CAS/FLE]
$C_5H_{10}O$	[96-47-9]	2-methyltetrahydrofuran				
	V	(283–353)	34.0	298	A	[1987STE/MAL]
	V		33.7	298		[1970MOI/ANT]
$C_5H_{10}O$	[563-80-4]	3-methyl-2-butanone				
	FUS		9.34	180		[1996DOM/HEA, 1968AND/COU2]
	V	(311–369)	35.5	326	A	[1987STE/MAL]
	V	(363–415)	33.8	378	A	[1987STE/MAL]
	V	(405–500)	32.6	420	A	[1987STE/MAL]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		36.8	298	C	[1983UCH/MAJ]
	V		36.8 ± 0.3	298	C	[1981GAT/STR]
	V	(328–377)	35.0	343	A	[1987STE/MAL, 1975AMB/ELL]
	V		36.9	298		[1975AMB/ELL]
	V		35.0 ± 0.1	327	C	[1967HAL/LEE]
	V		33.8 ± 0.1	346	C	[1967HAL/LEE]
	V		32.3 ± 0.1	367	C	[1967HAL/LEE]
$C_5H_{10}O$	[107-87-9]	2-pentanone				
	TRS		2.09	110		
	FUS		10.63	196.3		[1991ACR, 1968AND/COU2]
	V	(336–422)	36.1	351	A	[1987STE/MAL]
	V	(416–501)	33.7	431	A	[1987STE/MAL]
	V	(487–561)	33.3	502	A	[1987STE/MAL]
	V		38.4	298	C	[1983UCH/MAJ]
	V	(298–329)	37.8	313		[1983MAR/SHV]
	V		38.5 ± 0.8	298	C	[1981GAT/STR]
	V		38.3 ± 0.3	298	GCC	[1979SAL/PEA]
	V		38.4	298		[1975AMB/ELL]
	V	(268–373)	39.5	283	EB	[1966MEY/WAG]
	V	(329–385)	36.5	344	A, GS, EB	[1987STE/MAL, 1975AMB/ELL, 1965COL/COU, 1972DYK]
	V		36.1 ± 0.1	335	C	[1961NIC/KOB]
	V		34.4 ± 0.1	360	C	[1961NIC/KOB]
	V		33.4 ± 0.1	375	C	[1961NIC/KOB]
	V		32.8 ± 0.1	386	C	[1961NIC/KOB]
	V		32.2 ± 0.1	394	C	[1961NIC/KOB]
$C_5H_{10}O$	[96-22-0]	3-pentanone				
	TRS		0.11	118.5		
	TRS		0.01	180		
	FUS		11.59	234.2		[1991ACR, 1968AND/COU2]
	V	(290–375)	35.9 ± 0.2	332		[1988BAG/GUR]
	V	(329–426)	36.6	344	A	[1987STE/MAL]
	V	(421–502)	33.7	436	A	[1987STE/MAL]
	V	(494–561)	33.3	509	A	[1987STE/MAL]
	V		38.5	298	C	[1983UCH/MAJ]
	V		38.6 ± 0.3	298	C	[1981GAT/STR]
	V		38.7 ± 0.3	298	GCC	[1979SAL/PEA]
	V		38.6	298		[1975AMB/ELL]
	V		36.1 ± 0.1	335	C	[1967HAL/LEE]
	V		34.9 ± 0.1	354	C	[1967HAL/LEE]
	V		33.5 ± 0.1	375	C	[1967HAL/LEE]
	V	(329–384)	36.6	344	A, GS, EB	[1987STE/MAL, 1975AMB/ELL, 1965COL/COU, 1972DYK]
	V	(283–323)	36.9	303		[1937RIN/SAY]
$C_5H_{10}O$	[110-62-3]	pentanal				
	FUS		15.0	151.6		[1998VAS/LEB]
	V	(307–343)	38.6	298	EB	[2002ANT/FRA, 2003VER/KRA2]
	V	(313–353)	38.3	298	CGC	[1995CHI/HOS]
	V	(290–385)	U50.0	305	A	[1987STE/MAL]
	V		38.1 ± 0.1	298		[1981DYA/KOR]
	V	(305–377)	37.3	320		[1979MAR/SAC]
$C_5H_{10}O$	[630-19-3]	pivaldehyde				
	TRS		0.5	158.5		
	TRS		4.81	183.9		
	FUS	(29–298)	2.52	272.1	AC	[1988WHI/PER]
	V	(308–336)	34.2	322		[1989VAR/SOM]
$C_5H_{10}O$	[6921-35-3]	3,3-dimethyloxetane				
	V		33.9 ± 0.3	298	C	[1971RIN/SUN]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{10}O$	[764-47-6]	propyl vinyl ether				
	V	(293–333)	32.9	313		[2007HWA/HAN]
$C_5H_{10}OS$	[2307-10-0]	*S*-propyl thiolacetate				
	V		44.1 ± 0.2	298	C	[1966WAD]
$C_5H_{10}OS$	[926-73-8]	*S*-isopropyl thiolacetate				
	V		42.3 ± 0.2	298	C	[1966WAD]
$C_5H_{10}OS$	[6607-53-0]	1-(methylthio)-2-(vinyloxy)ethane				
	V	(316–347)	47.5	331	A	[1987STE/MAL, 1999DYK/SVO]
$C_5H_{10}O_2$	[97-99-4]	tetrahydrofurfuryl alcohol				
	V	(303–343)	50.0	373		[2014LOM/GIN2]
	V	(393–453)	46.2	408	A	[1987STE/MAL]
	V	(333–443)	46.5	388		[1979BLU/BAE]
$C_5H_{10}O_2$	[2916-31-6]	2,2-dimethyl-1,3-dioxolane				
	V	(278–318)	41.1 ± 0.2		GS	[1998VER/PEN, 2002VER]
$C_5H_{10}O_2$	[3390-12-3]	2,4-dimethyl-1,3-dioxolane				
	V	(298–353)	34.4			[2003CHO/DHA]
	V		38.9			[1969PIH/HEI, 2003CHO/DHA]
$C_5H_{10}O_2$	[1120-97-4]	4-methyl-1,3-dioxane				
	V	(273–313)	43.7 ± 0.3		GS	[1998VER/PEN, 2002VER]
$C_5H_{10}O_2$	[50741-70-3]	1-methoxy-2-butanone				
	V	(297–408)	44.9	312	A	[1987STE/MAL, 1934RIG/FEL, 1972DYK]
$C_5H_{10}O_2$	[115-22-0]	3-hydroxy-3-methyl-2-butanone				
	V	(317–419)	41.1	332	A	[1987STE/MAL, 1972DYK, 1950CON/ELV]
$C_5H_{10}O_2$	[3393-64-4]	4-hydroxy-3-methyl-2-butanone				
	V	(375–528)	58.3	390	A	[1987STE/MAL, 1972DYK]
	V	(317–458)	59.0	332		[1947STU]
$C_5H_{10}O_2$	[592-84-7]	butyl formate				
	V	(345–400)	38.0	360		[2005ORT/ESP]
	V	(313–359)	40.1	298	EB	[2004CHY/FRA]
	V	(313–359)	38.2 ± 0.1	336	EB	[2004CHY/FRA, 2012SAM/NAZ]
	V	(313–359)	40.5 ± 0.1	298	EB	[2004CHY/FRA, 2012SAM/NAZ]
	V	(363–392)	37.5 ± 0.1	378	EB	[1995GON/ORT, 2012SAM/NAZ]
	V	(363–392)	42.4 ± 0.1	298	EB	[1995GON/ORT, 2012SAM/NAZ]
	V	(295–380)	37.9	310	A	[1987STE/MAL]
	V		41.3 ± 0.1	298	C	[1980SVO/UCH]
	V		40.1 ± 0.1	313	C	[1980SVO/UCH]
	V		39.0 ± 0.1	328	C	[1980SVO/UCH]
	V	(353–380)	41.0 ± 0.1	298	EB	[1979LIN, 2012SAM/NAZ]
	V		38.7 ± 0.1	346	C	[1976CIH/HYN]
	V		38.1 ± 0.1	355	C	[1976CIH/HYN]
	V		37.3 ± 0.1	363	C	[1976CIH/HYN]
	V	(302–385)	40.5	298	EB	[1972MAN, 2012SAM/NAZ]
	V	(295–368)	38.1 ± 0.6	332	EB	[1959USA/DEM2, 2012SAM/NAZ]
	V	(295–368)	40.0 ± 0.6	298	EB	[1959USA/DEM2, 2012SAM/NAZ]
	V		37.1 ± 0.3	378	C	[1926MAT]
	V		32.1 ± 0.3	298	C	[1926MAT, 2012SAM/NAZ]
$C_5H_{10}O_2$	[589-40-2]	*sec*-butyl formate				
	V	(238–367)	37.7	253	A	[1987STE/MAL]
$C_5H_{10}O_2$	[105-37-3]	ethyl propanoate				
	FUS	(5–370)	12.29	199.8	AC	[2011AGA/VAR]
	V	(348–409)	36.1	363	EB	[2014RIO/ORT]
	V		39.5 ± 0.5	298	EB	[2011AGA/VAR]
	V	(315–420)	36.7	330		[1997HER/ORT]
	V	(372–538)	34.4	387	A	[1987STE/MAL]
	V		39.3 ± 0.1	298	C	[1980SVO/UCH]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		38.2 ± 0.1	313	C	[1980SVO/UCH]
	V		36.6 ± 0.1	336	C	[1977SVO/VES]
	V		36.0 ± 0.1	344	C	[1977SVO/VES]
	V		35.5 ± 0.1	351	C	[1977SVO/VES]
	V		34.5 ± 0.1	363	C	[1977SVO/VES]
	V		39.1 ± 0.1	298	C	[1972MAN]
	V	(306–372)	38.2	321	A	[1987STE/MAL, 1965MER/POL, 1972DYK]
$C_5H_{10}O_2$	[542-55-2]	isobutyl formate				
	V	(371–507)	36.6	386	A	[1987STE/MAL]
	V	(240–372)	38.6	255	A	[1987STE/MAL, 1947STU]
$C_5H_{10}O_2$	[108-21-4]	isopropyl acetate				
	V	(313–353)	37.0	298	CGC	[1995CHI/HOS]
	V		35.6	323	C	[1973GEI/QUI]
	V		37.2 ± 0.2	298	C	[1966WAD]
	V	(235–362)	38.8	250	A	[1987STE/MAL, 1947STU]
	V	(273–363)	36.3	288	A	[1929HAG/WEI]
$C_5H_{10}O_2$	[623-42-7]	methyl butyrate				
	FUS		11.36	190.1	AC	[2012AGA/VAR]
	V	(354–413)	35.9	370	EB	[2012RIO/ORT]
	V	(316–375)	39.4 ± 0.7	298	EB	[2012AGA/VAR]
	V	(274–303)	40.3 ± 0.5	298	GS	[2008VER/EME]
	V	(317–360)	38.4	332		[2002SWI/MAL]
	V		36.9	350		[2002VAN/VAN]
	V		41.1 ± 0.2	284		[2002VAN/VAN]
	V		40.6 ± 0.2	298		[2002VAN/VAN]
	V	(317–360)	40.6 ± 0.1	298	EB	[2002CON/WIC]
	V	(333–378)	39.3	298	CGC	[1999VER/HEI]
	V	(349–384)	36.4	364		[1990ORT/SUS]
	V		39.0 ± 0.4	298	GC	[1987AZA]
	V	(375–545)	34.2	390	A	[1987STE/MAL]
	V	(345–383)	40.4	298	EB	[1984WIS/TAM, 2008VER/EME]
	V		40.1 ± 0.4	298	C	[1981GAT/STR]
	V		39.8 ± 0.3	298	GCC	[1980FUC/PEA]
	V		39.3 ± 0.2	298	C	[1979SUN/SVE2]
	V	(246–375)	42.8	261	A	[1987STE/MAL, 1947STU]
$C_5H_{10}O_2$	[547-63-7]	methyl isobutyrate				
	V	(366–533)	33.7	381	A	[1987STE/MAL]
	V		37.3	298		[UR/FUC, 1985MAJ/SVO]
	V		38.9 ± 0.4	298	C	[1981GAT/STR]
	V	(239–366)	40.1	254	A	[1987STE/MAL, 1947STU]
$C_5H_{10}O_2$	[109-60-4]	propyl acetate				
	V	(302–503)	38,4	320	EB	[2012SUS/ROD]
	V	(273–363)	39.8	298	Static	[2011NEG/KAC]
	V	(323–359)	35.8	338	Static	[2011FAN/LI]
	V	(332–374)	37.0	347		[2011SAP/UUS]
	V	(313–363)	37.7	298	CGC	[1995CHI/HOS]
	V	(333–372)	37.0	348		[1993FAR/WIC]
	V	(374–542)	34.8	389	A	[1987STE/MAL]
	V	(322–383)	38.1	327	DTA	[1980MEY/AWE]
	V		39.8 ± 0.1	298	C	[1980SVO/UCH]
	V		38.6 ± 0.1	313	C	[1980SVO/UCH]
	V		35.3 ± 0.1	343	C	[1980SVO/UCH]
	V		36.9 ± 0.1	336	C	[1977SVO/VES]
	V		36.4 ± 0.1	344	C	[1977SVO/VES]
	V		35.8 ± 0.1	351	C	[1977SVO/VES]
	V		34.8 ± 0.1	363	C	[1977SVO/VES]
	V		36.9	335		[1976CON/COU]
	V		33.9	375		[1976CON/COU]
	V		36.7	335	C	[1973GEI/QUI]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		39.1 ± 0.2	298	C	[1966WAD]
	V	(312–374)	38.2	327	A	[1987STE/MAL, 1965MER/POL, 1972DYK]
$C_5H_{10}O_2$	[75-98-9]	trimethylacetic acid (pivalic acid)				
	FUS		2.3	308.2	DSC	[2004STU/WIT]
	FUS		2.3	309.1		[2002STE/CHI4]
	TRS		8.18	278.3		
	FUS		2.27	309.1		[1990SIN/GLI]
	SUB		62.3	291	GS	[2000VER2]
	V	(344–472)	57.6 ± 0.2	320	EB	[2002STE/CHI4]
	V	(344–472)	54.4 ± 0.2	360	EB	[2002STE/CHI4]
	V	(344–472)	50.9 ± 0.2	400	EB	[2002STE/CHI4]
	V	(344–472)	47.0 ± 0.4	440	EB	[2002STE/CHI4]
$C_5H_{10}O_2$	[109-52-4]	valeric acid (pentanoic acid)				
	FUS		14.16	239.5		[1996DOM/HEA, 1965MCD/KIL2]
	V	(283–313)	63.0 ± 9.5	298	GS	[2000VER2]
	V	(353–393)	65.9	298	CGC	[1995CHI/HOS]
	V	(373–465)	57.9	388	EB	[1987AMB/GHI3]
	V	(375–523)	58.0	390	A	[1987STE/MAL]
	V	(243–266)	62.4 ± 3	298	TE	[1979DEK/OON]
$C_5H_{10}O_2$	[503-74-2]	3-methylbutanoic acid (isovaleric acid)				
	V	(396–448)	53.8	411		[2004CLI/RAM]
	V	(293–323)	60.7 ± 0.3	308	GS	[2000VER2]
	V	(293–323)	61.2 ± 0.3	298	GS	[2000VER2]
	V	(364–464)	55.8	379	A, EB	[1987AMB/GHI3]
	V	(307–448)	56.6	322	A	[1987STE/MAL]
	V	(243–259)	57.5 ± 3	298	TE	[1979DEK/OON]
	V (monomer)		46.9 ± 0.2	298	C	[1970KON/WAD]
	V	(360–377)	45.9	375		[1894KAH]
$C_5H_{10}O_3$	[105-58-8]	diethyl carbonate				
	FUS		9.24	198.2	DSC	[2004DIN]
	V	(344–398)	42.3	359	EB	[2009XIN/FAN]
	V	(273–315)	44.4 ± 0.2	298	GS	[2008KOZ/EME]
	V	(352–403)	39.7	367		[2002ROD/CAN2]
	V	(308–400)	40.9	323	A	[1987STE/MAL]
	V		43.6 ± 0.2	298	C	[1973COU/LEE]
	V	(308–368)	39.1		MM	[1971CHO/JON]
	V	(263–399)	44.3	278		[1947STU]
$C_5H_{10}O_3$	[110-49-6]	ethylene glycol methyl ethyl acetate				
	V		50.3 ± 0.1	298	C	[1970KUS/WAD]
	V	(343–417)	44.3	358	A	[1987STE/MAL, 1957DYK/SEP, 1972DYK]
$C_5H_{10}O_3$	[97-64-3]	(*dl*)-ethyl lactate				
	V	(397–426)	44.8	402	EB	[2016MAT/INA]
	V	(303–378)	51.8	318		[2014LOM/GIN]
	V	(308–426)	49.2	323	A	[1987STE/MAL]
	V	(324–427)	51.3	339	A	[1987STE/MAL]
$C_5H_{10}O_3$	[623-72-3]	3-hydroxypropionic acid, ethyl ester				
	V	(338–356)	62.2	347	A	[1987STE/MAL]
$C_5H_{10}O_3$	[3852-09-3]	3-methoxypropionic acid, methyl ester				
	V	(350–438)	43.4	370	A	[1987STE/MAL]
$C_5H_{10}O_3$	[1779-19-7]	1,3,6-trioxacyclooctane				
	V		48.8 ± 0.2	298	C	[1982BYS/MAN]
$C_5H_{10}O_4$	[106-61-6]	glycerol, 1-monoacetate				
	V	(385–458)	74.0	400	A	[1987STE/MAL, 1972DYK]
$C_5H_{10}O_4$	[4767-03-7]	2,2-bis-hydroxymethylpropanoic acid				
	TRS		38.5	426		

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		3.59	468	DSC	[1996DOM/HEA, 1970MUR/BRE]
$C_5H_{10}O_5$	[16528-92-0]	1,3,5,7,9-pentoxecane				
	FUS		21.88	334	DSC	[1996DOM/HEA, 1969CLE/MEL3]
	SUB		87.9 ± 0.5	298	C	[1974MAN2]
$C_5H_{10}O_5$	[58-86-6]	(*d*)-xylose				
	FUS		31.7	416.2		[2002JON/COO]
	SUB	(370–395)	158.0 ± 3.1	382	ME	[1999OJA/SUU]
$C_5H_{10}O_8P_2$	[347-28-4]	3,9-dihydroxy-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane-3,9-dioxide				
	FUS		22.46	583.7	DSC	[2010GUO/WAN2]
$C_5H_{10}S$	[5296-62-8]	allyl ethyl sulfide				
	V	(300–327)	38.9	313	A, EB	[1987STE/MAL, 1962MAC/MAY3, 1999DYK/SVO]
	V	(300–327)	39.3	298		[1962MAC/MAY3]
$C_5H_{10}S$	[1679-07-8]	cyclopentanethiol				
	FUS		7.83	155.4		[1996DOM/HEA, 1961BER/SCO]
	V	(354–446)	38.2	369		[1999DYK/SVO]
	V	(348–446)	38.4	363	A, EB	[1987STE/MAL, 1961BER/SCO, 1966OSB/DOU]
	V		37.9 ± 0.1	361	C	[1961BER/SCO]
	V		36.7 ± 0.1	381	C	[1961BER/SCO]
	V		35.3 ± 0.1	405	C	[1961BER/SCO]
$C_5H_{10}S$	[1795-09-1]	2-methyltetrahydrothiophene				
	FUS		8.87	172.4		[1974MES/FIN, 1996DOM/HEA]
	V	(303–433)	40.6	318		[1999DYK/SVO]
	V		41.8	298		[1971WIL/ZWO]
	V		41.3 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(335–447)	39.0	350	A, EB	[1987STE/MAL, 1966OSB/DOU]
	V	(341–411)	38.7	356		[1952WHI/BAR]
$C_5H_{10}S$	[4740-00-5]	3-methyltetrahydrothiophene				
	FUS		10.37	192		[1974MES/FIN, 1996DOM/HEA]
	V	(307–439)	41.3	322		[1999DYK/SVO]
	V		42.7	298		[1971WIL/ZWO]
	V		42.1 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(340–453)	39.6	355	A, EB	[1987STE/MAL, 1966OSB/DOU]
	V	(346–422)	39.3	361		[1952WHI/BAR]
$C_5H_{10}S$	[1613-51-0]	pentamethylene sulfide				
	TRS	(13–342)	1.1	201.4		
	TRS	(13–342)	7.77	240.0		
	FUS	(13–342)	2.45	292.3	AC	[1996DOM/HEA, 1954MCC/FIN]
	V	(310–443)	41.4	325		[1999DYK/SVO]
	V	(338–393)	37.2	345	EB	[1984PAL/CHO]
	V		42.8	298	C	[1971WIL/ZWO]
	V		39.7 ± 0.1	351	C	[1954MCC/FIN]
	V		38.7 ± 0.1	368	C	[1954MCC/FIN]
	V		37.4 ± 0.1	390	C	[1954MCC/FIN]
	V		36.6 ± 0.1	404	C	[1954MCC/FIN]
	V		36.0 ± 0.1	415	C	[1954MCC/FIN]
	V	(347–423)	39.5	362	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_5H_{11}Br$	[110-53-2]	1-bromopentane				
	FUS		11.47	185.1		[1950KUS/CRO]
	FUS		14.37	185.1		[1996DOM/HEA, 1931DEE]
	V	(323–363)	40.9	298	CGC	[1995CHI/HOS]
	V		41.4 ± 0.1	298	C	[1968WAD]
	V		41.1 ± 0.1	298	C	[1966WAD]
	V	(293–443)	41.0	308	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{11}Br$	[107-81-3]	(*dl*)-*sec*-pentylbromide (2-bromopentane)				
	V	(303–432)	37.5	318	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Br$	[107-81-3]	2-bromopentane				
	V	(323–363)	38.5	298	CGC	[1995CHI/HOS]
$C_5H_{11}Br$	[1809-10-5]	3-bromopentane				
	FUS		8.4	167.3		[1995TAK/YAM]
	V	(304–434)	37.7	319	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Br$	[630-17-1]	1-bromo-2,2-dimethylpropane				
	V	(293–420)	35.6	308	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Br$	[10422-35-2]	1-bromo-2-methylbutane				
	V	(306–436)	37.9	321	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Br$	[107-82-4]	1-bromo-3-methylbutane				
	V	(306–436)	37.9	321	A	[1987STE/MAL, 1972DYK]
	V	(253–393)	41.0	268		[1947STU]
$C_5H_{11}Br$	[507-36-8]	2-bromo-2-methylbutane				
	V	(295–422)	36.4	310	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Br$	[18295-25-5]	2-bromo-3-methylbutane				
	V	(301–430)	37.2	316	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[543-59-9]	1-chloropentane				
	V	(313–353)	38.8	298	CGC	[1995CHI/HOS]
	V		38.2	298	C	[1981TEK/MAJ]
	V		37.3	313	C	[1981TEK/MAJ]
	V		36.5	328	C	[1981TEK/MAJ]
	V		35.6	343	C	[1981TEK/MAJ]
	V		34.6	358	C	[1981TEK/MAJ]
	V		34.0	363	C	[1981TEK/MAJ]
	V		38.2 ± 0.1	298	C	[1968WAD]
	V	(277–421)	38.7	292	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]
	V	(283–323)	36.2	303		[1937RIN/SAY]
$C_5H_{11}Cl$	[625-29-6]	2-chloropentane				
	V		36.0	298	C	[1981TEK/MAJ]
	V		35.2	313	C	[1981TEK/MAJ]
	V		34.4	328	C	[1981TEK/MAJ]
	V		33.5	358	C	[1981TEK/MAJ]
	V		31.9	368	C	[1981TEK/MAJ]
	V	(289–409)	36.2	304	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[616-20-6]	3-chloropentane				
	V	(289–410)	36.5	304	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[753-89-9]	1-chloro-2,2-dimethylpropane				
	TRS		6.12	172.0		
	TRS		0.26	206.3		
	FUS		1.81	250.5	DSC	[2006BUH/MIE]
	V	(279–395)	34.9	294	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[616-13-7]	(*dl*)-1-chloro-2-methylbutane				
	V	(300–374)	35.4	315	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[594-36-5]	2-chloro-2-methylbutane				
	V	(280–396)	35.0	295	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[631-65-2]	2-chloro-3-methylbutane				
	V	(285–405)	35.9	300	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}Cl$	[107-84-6]	1-chloro-3-methylbutane				
	V	(313–353)	38.1	298	CGC	[1995CHI/HOS]
	V		36.2	298	C	[1981TEK/MAJ]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		35.4	313	C	[1981TEK/MAJ]
	V		34.6	328	C	[1981TEK/MAJ]
	V		33.7	343	C	[1981TEK/MAJ]
	V		32.8	358	C	[1981TEK/MAJ]
	V		32.3	368	C	[1981TEK/MAJ]
$C_5H_{11}ClO_2S$	[6303-18-0]	1-pentanesulfonyl chloride				
	V	(293–387)	58.5	308		[1999DYK/SVO]
	V	(387–492)	55.1	402		[1999DYK/SVO]
	V	(263–293)	60.5	278	A	[1987STE/MAL, 1999DYK/SVO, 1963QUI/NOW]
$C_5H_{11}Cl_2N$	[51-75-2]	*N*-methyl-bis(2-chloroethyl)amine				
	V	(273–333)	54.6	288	A	[1987STE/MAL]
$C_5H_{11}F$	[592-50-7]	1-fluoropentane				
	V	(245–373)	33.7	260	EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]
$C_5H_{11}F$	[10086-64-3]	1-fluoro-2-methylbutane				
	V	(287–329)	30.7	302	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}F$	[661-53-0]	2-fluoro-2-methylbutane				
	V	(249–341)	31.8	264	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}I$	[628-17-1]	1-iodopentane				
	V	(313–353)	44.4	298	CGC	[1995CHI/HOS]
	V		45.3 ± 0.1	298	C	[1968WAD]
	V	(312–473)	43.1	327	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]
$C_5H_{11}I$	[616-14-8]	1-iodo-2-methylbutane				
	V	(339–406)	39.8	354	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}I$	[541-28-6]	1-iodo-3-methylbutane				
	V	(258–303)	43.2 ± 0.1	298	Static	[2010FUL/RUZ]
	V	(313–353)	42.2	298	CGC	[1995CHI/HOS]
	V	(270–422)	43.5	285	A	[1987STE/MAL, 1947STU]
$C_5H_{11}I$	[594-38-7]	2-iodo-2-methylbutane				
	V	(308–398)	40.4	323	A	[1987STE/MAL, 1972DYK]
$C_5H_{11}N$	[1003-03-8]	cyclopentylamine				
	TRS	(12–348)	0.48	184.5		
	FUS	(12–348)	8.31	190.4	AC	[1996DOM/HEA, 1981FIN/MES]
	V	(317–419)	38.3	332	EB	[1987STE/MAL, 1975AMB/CON]
	V	(317–419)	40.2 ± 0.4	298	EB	[1975GOO/MES]
$C_5H_{11}N$	[120-94-5]	1-methylpyrrolidine				
	V		36.6 ± 2.4	298	CGC	[2010LIP/PLI]
	V	(270–298)	35.0 ± 0.7	284	GS	[1998VER6]
	V	(270–298)	34.2 ± 0.7	298	GS	[1998VER6]
	V	(273–315)	33.7	288	A	[1987STE/MAL, 1968CAB/CON]
$C_5H_{11}N$	[110-89-4]	piperidine				
	FUS	(13–362)	14.85	262.1	AC	[1996DOM/HEA, 1988MES/TOD]
	V		38.6 ± 2.1	298	CGC	[2014THO/GOB]
	V		36.6	338		[1988HOS/ARC]
	V		35.3	357		[1988HOS/ARC]
	V	(315–417)	37.6	330	A, EB, IPM	[1987STE/MAL, 1968OSB/DOU]
	V	(283–318)	39.4	298		[1968CAB/CON]
$C_5H_{11}NO$	[617-84-5]	*N*, *N*-diethylformamide				
	V		50.3	298		[1985BAR/CAS, 1985MAJ/SVO]
	V	(303–363)	48.9	318	A	[1987STE/MAL, 1968GOP/RIZ]
$C_5H_{11}NO$	[1118-69-0]	*N*-isopropylacetamide				
	V		66.4 ± 0.3	298	C	[1984STA/WAD]
$C_5H_{11}NO$	[5331-48-6]	*N*-propylacetamide				
	V		69.8 ± 0.2	298	C	[1984STA/WAD]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{11}NO$	[626-97-1]	pentanamide				
	TRS		1.9	211.8		
	TRS		1.2	365		
	FUS		17.9	377.2	DSC	[2008ABA/BAD]
	SUB	(333–374)	89.3 ± 0.4		GS	[1959DAV/JON2, 1970COX/PIL]
	SUB	(353–373)	89.1			[1960JON]
	V		75.9 ± 3.2	298	CGC	[2013GUT/RAT]
$C_5H_{11}NO$	[754-10-9]	2,2-dimethylpropanamide				
	FUS		24.1	425.4	DSC	[2008ABA/BAD]
	SUB	(298–359)	89.0 ± 2.0	298	TE	[2000BRU/DEL]
	SUB	(288–306)	86.6 ± 0.4	298		[1989ABB/JIM]
$C_5H_{11}NO$	[758-96-3]	*N*, *N*-dimethylpropionamide				
	V	(326–424)	53.5	341	A	[1987STE/MAL]
	V		52.9			[1977VAS/KOT]
$C_5H_{11}NO$	[2675-88-9]	*N*-methyl-2-methylpropionamide				
	V		67.1 ± 0.2	298	C	[1984STA/WAD]
$C_5H_{11}NO$	[7148-06-3]	methyl 2-(*N*, *N*-dimethylamino)propanoate				
	V	(278–308)	43.9 ± 0.4	293	GS	[1992VER/BEC]
$C_5H_{11}NO$	[109-02-4]	*N*-methylmorpholine				
	V	(273–353)	39.5	298	Static	[2009BEL/RAZ]
	V	(273–353)	38.9	313	Static	[2009RAZ/HAJ]
	V	(273–353)	39.8	298	Static	[2009RAZ/HAJ]
	V		38.2 ± 1.1	298	DSC	[2005ROJ/GIN]
	V	(274–304)	40.2 ± 0.3	288	GS	[1998VER2]
	V	(274–304)	39.6 ± 0.3	298	GS	[1998VER2]
	V	(323–363)	33.6	343	TGA	[1987ALN/ALS]
	V	(297–389)	38.4	312	A	[1987STE/MAL]
	V	(276–319)	40.0	291	A	[1987STE/MAL, 1975CAB/CON]
	V	(276–319)	39.4 ± 0.1	298		[1975CAB/CON]
$C_5H_{11}NO$	[15364-56-4]	1-(dimethylamino)-2-propanone				
	V	(298–338)	43.6 ± 0.3	298	GS	[1994WEL/VER]
$C_5H_{11}NO$	[1188-11-0]	3-pentanone oxime				
	V	(318–425)	55.8	333	A	[1987STE/MAL]
$C_5H_{11}NO_2$	[628-05-7]	1-nitropentane				
	V		51.0 ± 0.4	298	C	[2011MIR/KON]
	V	(278–318)	50.3 ± 0.2	298	GS	[1997VER3]
$C_5H_{11}NO_2$	[543-28-2]	isobutyl carbamate				
	V	(356–479)	58.8	371	A	[1987STE/MAL, 1947STU]
$C_5H_{11}NO_2$	[35123-06-9]	*N*,*N*-dimethyl lactamide				
	V	(351–417)	73.7	366	A	[1987STE/MAL]
$C_5H_{11}NO_2$	[760-78-1]	(*dl*)-2-aminopentanoic acid (DL-norvaline)				
	TRS		0.36	156.3		
	TRS		1.59	197.1	DSC	[2010CHA/PAP]
	SUB	(439–461)	120	450		[1987STE/MAL, 1965SVE/CLY]
	SUB	(439–461)	121.1 ± 0.4	455	ME	[1965SVE/CLY, 1964CLY/SVE]
$C_5H_{11}NO_2$	[592-35-8]	butyl carbamate				
	FUS	(299–453)	17.45	326.2	AC	[2014ZEN/YAN]
	SUB		92.9	298	F + V	[2014ZEN/YAN]
	SUB	(292–316)	94.1 ± 8		ME	[1959DAV/JON]
	V	(372–409)	64.8	390		[2014ZEN/YAN]
	V	(372–409)	76.6	298		[2014ZEN/YAN]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{11}NO_2$	[465-58-7]	(*dl*)-2-amino-2-methyl-butanoic acid				
	SUB		134.2 ± 1.0	413	TE, ME	[1979DEK/VOO]
	SUB	(439–469)	125.8 ± 0.4	454		[1965SVE/CLY, 1964CLY/SVE]
$C_5H_{11}NO_2$	[516-06-3]	DL-valine				
	SUB	(320–420)	U79.5 ± 8	370	LE	[1977GAF/PIE]
$C_5H_{11}NO_2$	[72-18-4]	L-valine				
	SUB	(438–456)	162.8 ± 0.8	455	ME	[1965SVE/CLY, 1964CLY/SVE, 1989CHI/GRO]
$C_5H_{11}NO_2$	[660-88-8]	5-aminopentanoic acid				
	SUB	(384–394)	141.8 ± 0.5	389	C	[1983SKO/SAB]
	SUB		144 ± 3	298	C	[1983SKO/SAB]
$C_5H_{11}NO_2$	[7529-22-8]	*N*-methylmorpholine-*N*-oxide				
	FUS		18.8	457.4	DSC	[1981NAV/HAU]
$C_5H_{11}NO_2S$	[59-51-8]	DL-methionine				
	SUB	(363–463)	U134 ± 8	413	LE	[1977GAF/PIE]
$C_5H_{11}NO_2S$	[63-68-3]	L-(*d*)-methionine				
	TRS		2.3	307.7		
	TRS		0.23	394.5		
	TRS		0.10	420.5	DSC	[2012ROU/NOT3]
	SUB		140.5	421	C	[1981SAB/MIN]
	SUB		164 ± 4	298	C	[1981SAB/MIN]
	SUB	(463–485)	125	474	A	[1987STE/MAL, 1965SVE/CLY]
	SUB	(463–485)	125.1 ± 0.8	455	ME	[1965SVE/CLY, 1964CLY/SVE]
$C_5H_{11}NO_3$	[543-87-3]	isopentyl nitrate				
	V	(278–421)	47.0	293	A	[1987STE/MAL, 1947STU]
$C_5H_{11}NO_3S$	[14357-44-9]	2-methyl-2-(methylsulfonyl)propanal oxime				
	FUS		27.12	382	DSC	[1990DON/DRE]
$C_5H_{11}N_5O_2$	[136516-16-0]	1,5-dimethyl-2-nitriminohexahydro-1,3,5-triazine				
	FUS		21.0	408.1	DSC	[2010HU/CHE]
$C_5H_{11}O_2PS_2$	[77240-15-4]	2-mercapto-4,6-dimethyl-1,3,2-dioxaphosphorinane-2-sulfide				
	V		72.3			[2008SAG/SAF]
$C_5H_{11}P$	[4743-40-2]	phosphorinane				
	SUB	(250–291)	43.3	276	T	[1987STE/MAL, 1966MOR/TAM]
	V	(294–345)	39.9	309	A, T	[1987STE/MAL, 1966MOR/TAM]
C_5H_{12}	[109-66-0]	pentane				
	FUS		8.41	143.5	DTA	[1994TAN/SAB3]
	FUS		8.4	143.5		[1991ACR, 1967MES/GUT]
	FUS		8.4	143.5		[1991ACR, 1940MES/KEN]
	FUS		8.4	143.5		[1930PAR/HUF2]
	SUB		42.0	143	B	[1963BON]
	V	(299–342)	27.1	315	EB	[2014RIO/ORT]
	V	(308–423)	26.7	323		[2002PFO/RIE]
	V		26.4	298		[1994RUZ/MAJ]
	V	(223–352)	29.8	238	A	[1987STE/MAL]
	V	(143–223)	32.3	208	A	[1987STE/MAL]
	V	(350–422)	26.1	365	A	[1987STE/MAL]
	V	(418–470)	26.2	433	A	[1987STE/MAL]
	V		26.6 ± 0.1	298	C	[1982FUC/PEA]
	V		26.4	298	C	[1981HOS/SCO2]
	V		25.5	310		[1977DAS/REE]
	V		23.0	350		[1977DAS/REE]
	V		19.7	390		[1977DAS/REE]
	V		15.1	430		[1977DAS/REE]
	V		8.5	460		[1977DAS/REE]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(216–296)	26.2	298		[1975HOE/HOE]
	V	(269–341)	27.9	284	EB	[1987STE/MAL, 1974OSB/DOU]
	V		26.4	298		[1971WIL/ZWO]
	V		26.4	298	C	[1947OSB/GIN]
	V	(286–310)	27.4	298	MM	[1945WIL/TAY]
	V		26.2	298		[1940MES/KEN]
C_5DH_{11}	[55620-30-9]	1-deuteropentane				
	V	(223–303)	26.2	298		[1975HOE/HOE]
C_5DH_{11}	[55620-31-0]	3-deuteropentane				
	V	(213–294)	26.3	298		[1975HOE/HOE]
C_5D_{12}	[2031-90-5]	pentane-d_{12}				
	V	(205–298)	26.0	298		[1975HOE/HOE]
C_5H_{12}	[463-82-1]	2,2-dimethylpropane (neopentane)				
	TRS		2.63	140.5		
	FUS		3.10	256.8		[1970CHA/WES, 1969ENO/SHI]
	TRS		2.56	139.0		
	FUS		3.24	253.8	DSC	[1970SIL/RUD]
	TRS		2.58	140		
	FUS		3.26	256.5		[1996DOM/HEA, 1936AST/MES]
	SUB	(223–256)	28.2	241	A	[1987STE/MAL]
	SUB		33.2			[1933WHI/FLE, 1936AST/MES]
	SUB	(171–249)	23.9	210	A	[1947STU]
	V	(268–313)	24.0	283	A	[1987STE/MAL]
	V	(312–385)	23.1	327	A	[1987STE/MAL]
	V	(382–433)	23.1	397	A	[1987STE/MAL]
	V		21.8	298	C	[1981HOS/SCO2]
	V		22.2	290		[1977DAS/REE2]
	V		19.5	330		[1977DAS/REE2]
	V		16.2	370		[1977DAS/REE2]
	V		11.1	410		[1977DAS/REE2]
	V	(257–293)	24.3	272		[1975HOE/PAR, 1984BOU/FRI]
	V	(343–433)	22.8	358		[1973DAW/SIL, 1984BOU/FRI]
	V		21.85	298		[1971WIL/ZWO]
	V		22.8 ± 0.1	283		[1936AST/MES]
C_5H_{12}	[78-78-4]	2-methylbutane (isopentane)				
	FUS		5.13	113.4		[1996DOM/HEA, 1942SCH/AST]
	FUS		5.11	112.6		[1996DOM/HEA, 1930PAR/HUF]
	V	(255–323)	26.9	270		[1991EWI/GOO]
	V	(216–323)	28.5	231	A	[1987STE/MAL]
	V	(300–460)	25.2	315	A	[1987STE/MAL]
	V	(320–391)	25.2	335	A	[1987STE/MAL]
	V	(385–416)	24.8	400	A	[1987STE/MAL]
	V	(412–460)	25.3	427	A	[1987STE/MAL]
	V		24.4	310		[1977DAS/REE3]
	V		21.5	350		[1977DAS/REE3]
	V		18.0	390		[1977DAS/REE3]
	V		12.9	430		[1977DAS/REE3]
	V		24.8	298		[1971WIL/ZWO]
	V	(190–300)	30.2	205		[1947STU]
	V	(289–301)	26.2	295	MM	[1945WIL/TAY]
	V		25.0	298	C	[1942SCH/AST]
$C_5H_{12}ClF_3N_2OS$	[63265-73-6]	chloro bis(*N*-methylmethanaminto)oxo(trifluoromethyl)sulfur				
	V		40.2	477	I	[1977KIT/SHR2]
$C_5H_{12}ClF_3N_2S$	[63265-71-4]	chloro bis(*N*-methylmethanaminato)(trifluoromethyl) sulfur				
	V		38.1	368	I	[1977KIT/SHR2]
$C_5H_{12}NO_3PS_2$	[60-51-5]	phosphorodithioic acid, *O*,*O*-dimethyl-*S*-[2-(methylamino)-2-oxoethyl]ester				
	FUS		20.49	321	DSC	[1990DON/DRE]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(283–390)	95.0	298	A	[1987STE/MAL]
$C_5H_{12}N_2$	[4426-46-4]	methyl butyldiazene				
	V		36.4 ± 0.2	298	C	[1978ENG/MON]
$C_5H_{12}N_2$	[109-01-3]	*N*-methylpiperazine				
	V	(274–319)	46.7	289	A	[1987STE/MAL, 1975CAB/CON]
$C_5H_{12}N_2O$	[632-22-4]	1,1,3,3-tetramethylurea				
	FUS		14.0	272.1		[2001JAM/DOB]
	FUS	(5–320)	13.4	270.5	AC	[1995KAB/KOZ2, 1996DOM/HEA]
	FUS		14.1		CR	[1972ZOR/HUR]
	V	(320–450)	41.7	450	A, EB	[1987KNE/ZON]
	V	(320–450)	52.2	325	A, EB	[1987KNE/ZON]
$C_5H_{12}N_2O$	[634-95-7]	1,1-diethylurea				
	TRS		2.8			
	FUS		14.2		DSC	[1995STR/ARG]
	TRS	(5–320)	2.07	197.3	AC	[1995KAB/KOZ2]
	FUS		16.78	342.3		[1991ACR, 1990KAB/MIR2, 1987DEL/FER]
	SUB	(312–339)	95.7 ± 0.7	298	GS	[2006EME/KAB]
	SUB	(305–347)	95.5 ± 0.8	324	ME	[2003ZAI/KAB]
	SUB	(305–347)	94.9 ± 0.8	350	ME	[2003ZAI/KAB]
	SUB		94.7 ± 0.2	350	C	[2003ZAI/KAB]
	SUB		95.9 ± 0.2	298		[2003ZAI/KAB]
$C_5H_{12}N_2O$	[623-76-7]	1,3-diethylurea				
	TRS		1.87	339.4		[1987DEL/FER]
	TRS	(5–320)	1.66	340.8	AC	[1995KAB/KOZ2]
	FUS		12.46	383.4		[1991ACR, 1990KAB/MIR2, 1987DEL/FER]
	SUB	(343–379)	95.4 ± 0.3	298	GS	[2006EME/KAB]
	SUB	(323–384)	91.8 ± 0.9	358	ME	[2003ZAI/KAB]
	SUB	(323–384)	92.3 ± 0.9	350	ME	[2003ZAI/KAB]
	SUB		95.6 ± 0.6	350	C	[2003ZAI/KAB]
	SUB		97.6 ± 0.5	298		[2003ZAI/KAB]
	SUB	(321–379)	96.8 ± 0.9	361	TE	[1990PIA/FER, 1987FER/DEL2]
	SUB	(384–590)	NA		ME	[1986KRA/KOZ]
$C_5H_{12}N_2O$	[592-31-4]	*N*-butylurea				
	TRS		6.3	310.5		
	TRS		0.7	362.2		
	FUS		10.8	365.4	DSC	[2005HAS/TAJ]
	TRS		7.0	315		
	TRS		1.0	346		
	FUS		15.7	370	DSC	[1995FER/DEL]
	TRS	(5–320)	4.05	294	AC	[1995KAB/KOZ2]
	TRS		7.02	313.1		
	TRS		0.88	344.9		
	FUS		14.55	369.3	DSC	[1991ACR, 1987DEL/FER]
	SUB	(346–367)	105.8 ± 0.7	298	GS	[2006EME/KAB]
	SUB	(339–364)	102.7 ± 2.8	354	ME	[2003ZAI/KAB]
	SUB	(339–364)	103.0 ± 2.8	350	ME	[2003ZAI/KAB]
	SUB		101.1 ± 0.4	350	C	[2003ZAI/KAB]
	SUB		104.0 ± 0.4	298		[2003ZAI/KAB]
	SUB		99 ± 4			[1987FIO/FER]
$C_5H_{12}N_2O$	[592-17-6]	*N*-isobutylurea				
	SUB		101.1 ± 1.1	377	TE	[1990PIA/FER]
$C_5H_{12}N_2O$	[689-11-2]	*N*-*sec*-butylurea				
	SUB	(345–394)	101.9 ± 0.5	298	GS	[2006EME/KAB]
	SUB	(338–372)	104.3 ± 0.8	355	ME	[2003ZAI/KAB]
	SUB	(338–372)	104.5 ± 0.8	350	ME	[2003ZAI/KAB]
	SUB		104.6 ± 0.4	298		[2003ZAI/KAB]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		102.4 ± 0.5	350	C	[2009RIB/FER7]
$C_5H_{12}N_2O$	[1118-12-3]	*N*-*tert*-butylurea				
	TRS	(5–320)	0.1	249	AC	[1995KAB/KOZ2]
	FUS		33.13	449.8	DSC	[1991ACR, 1987DEL/FER]
	SUB	(335–397)	98.2 ± 0.4	298	GS	[2006EME/KAB]
	SUB	(333–372)	97.6 ± 0.8	353	ME	[2003ZAI/KAB]
	SUB	(333–372)	97.7 ± 0.8	350	ME	[2003ZAI/KAB]
	SUB		94.4 ± 0.9	350	C	[2003ZAI/KAB]
	SUB		97.3 ± 0.6	298		[2003ZAI/KAB]
	SUB		101.6 ± 0.7	379	TE	[1990PIA/FER]
$C_5H_{12}N_2O_2$	[52330-07-1]	*N*-methyl-*N*-nitrobutanamine				
	FUS		37.56	331	DTA	[1987OYU/BRI]
$C_5H_{12}N_2S$	[105-55-5]	1,3-diethylthiourea				
	FUS		17.14	350.5	DSC	[2000DEL/JOZ]
	SUB		121.7 ± 3	298	B	[2000DEL/JOZ]
	SUB		120.2 ± 3.0	298	B	[1994TER/PIA]
	V	(351–384)	101.0 ± 3.0	368	ME, TE	[1994TER/PIA]
$C_5H_{12}N_2S$	[2782-91-4]	tetramethylthiourea				
	FUS		22.14	350.4	DSC	[2000DEL/JOZ]
	FUS		18.2	351	DSC	[1993DEM/BUC]
	SUB		84.5 ± 3.0	298	ME	[2000DEL/JOZ]
	SUB		83.0 ± 3.0	333	TE	[1994FER/MAR]
	SUB		84.0	298		[1994FER/MAR]
	SUB		83.0 ± 0.5	298	C	[1985MUR/SAK]
	SUB		83.0 ± 0.2	298	C	[1982INA/MUR]
$C_5H_{12}N_4O_2$	[16849-81-3]	1,1,3,3-tetramethyl-2-nitroguanidine				
	V		26.8 ± 1.1			[2009AST/DYU]
$C_5H_{12}N_4O_4$	[134273-34-0]	3,5-dinitro-3,5-diazaheptane				
	FUS		31.5	348.2	DSC	[2003SPI/WAN]
$C_5H_{12}N_4O_4$	[168983-73-1]	*N*-methyl-*N*, *N*′-dinitro-*N*′-propylmethanediamine				
	FUS		21.1	309.2	DSC	[2003SPI/WAN]
$C_5H_{12}N_4O_4$	[503152-72-5]	*N*-methyl-*N*′-(1-methylethyl)-*N*, *N*′-dinitromethanediamine				
	FUS		20.5	334.7	DSC	[2003SPI/WAN]
$C_5H_{12}O$	[628-28-4]	1-methoxybutane				
	FUS	(12–315)	10.85	157.5	AC	[1996DOM/HEA, 1975AND/MAR]
	V	(263–333)	32.6	298	Static	[2012HAN/SOL]
	V	(293–367)	32.5	308	A	[1987STE/MAL]
	V		32.4	298	C	[1980MAJ/WAG]
	V		31.5	313	C	[1980MAJ/WAG]
	V		30.5	328	C	[1980MAJ/WAG]
	V		29.6	343	C	[1980MAJ/WAG]
	V		28.6	358	C	[1980MAJ/WAG]
	V	(265–367)	32.4	298		[1976AMB/ELL]
	V	(265–367)	29.6	343		[1976AMB/ELL]
	V		32.5 ± 0.1	298	C	[1975FEN/HAR]
	V	(296–342)	32.4	311	EB	[1969CID/POL]
$C_5H_{12}O$	[628-32-0]	1-ethoxypropane				
	FUS	(12–316)	8.39	145.7	AC	[1996DOM/HEA, 1975AND/MAR]
	V	(264–359)	33.0	279	A	[1987STE/MAL, 1976AMB/ELL]
	V		31.4	298	C	[1980MAJ/WAG]
	V		30.5	313	C	[1980MAJ/WAG]
	V		29.5	328	C	[1980MAJ/WAG]
	V		28.5	343	C	[1980MAJ/WAG]
	V		27.4	358	C	[1980MAJ/WAG]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(264–359)	31.4	298		[1976AMB/ELL]
	V	(264–359)	29.0	336		[1976AMB/ELL]
	V		31.4 ± 0.1	298	C	[1975FEN/HAR]
	V	(293–335)	31.6	308		[1969CID/POL]
$C_5H_{12}O$	[625-54-7]	ethyl isopropyl ether				
	V		30.0	298	C	[1980MAJ/WAG]
	V		29.2	313	C	[1980MAJ/WAG]
	V		28.1	328	C	[1980MAJ/WAG]
	V		27.1	343	C	[1980MAJ/WAG]
$C_5H_{12}O$	[1634-04-4]	methyl *tert*-butyl ether				
	FUS	(12–308)	7.6	164.6	AC	[1996DOM/HEA, 1975AND/MAR]
	V	(263–333)	30.5	298	Static	[2012HAN/SOL]
	V	(287–327)	30.8	298		[2010CLA/MAR]
	V	(300–328)	29.9	314		[2002SEG/GAL]
	V	(315–365)	29.6	330		[1998AUC/LOR]
	V	(298–322)	30.0	310		[1995BEL/AIT]
	V	(300–411)	31.2	315	EB	[1994KRA/GME]
	V	(287–326)	30.4	302		[1991WU/PIV]
	V		29.8	298	C	[1980MAJ/WAG]
	V		28.9	313	C	[1980MAJ/WAG]
	V		28.0	328	C	[1980MAJ/WAG]
	V		27.0	343	C	[1980MAJ/WAG]
	V	(287–351)	30.2	302	A	[1987STE/MAL, 1976AMB/ELL]
	V		29.6	298		[1976AMB/ELL]
	V		27.9	328		[1976AMB/ELL]
	V		30.4 ± 0.1	298	C	[1975FEN/HAR]
$C_5H_{12}O$	[71-41-0]	1-pentanol				
	FUS	(85–370)	10.51	195.6		[2004VAN/VAN]
	FUS		10.5	195.6		[1996DOM/HEA, 1968COU/LEE]
	FUS		9.83	194.2		[1933PAR/HUF]
	V	(318–403)	55.4	298		[2006NAS/NEU]
	V		44.4	411		[2000WOR/JAM]
	V		40.1	448		[2000WOR/JAM]
	V		36.1	473		[2000WOR/JAM]
	V		31.7	498		[2000WOR/JAM]
	V		26.4	523		[2000WOR/JAM]
	V		22.0	548		[2000WOR/JAM]
	V		14.1	573		[2000WOR/JAM]
	V		7.1	586		[2000WOR/JAM]
	V		43.5			[1999FAT]
	V	(323–373)	57.8	298	CGC	[1995CHI/HOS]
	V	(323–373)	57.4	298	CGC	[1995CHI/HOS]
	V	(335–410)	51.5	350		[1994AUC/BUR]
	V	(388–420)	47.2	403	A	[1987STE/MAL]
	V	(326–411)	54.3	341	A	[1987STE/MAL]
	V	(408–441)	45.4	423	A	[1987STE/MAL]
	V		55.7 ± 0.2	313	C	[1985MAJ/SVO2]
	V		54.4 ± 0.2	328	C	[1985MAJ/SVO2]
	V		53.0 ± 0.2	343	C	[1985MAJ/SVO2]
	V		51.2 ± 0.2	358	C	[1985MAJ/SVO2]
	V	(343–403)	55.4	298		[1983SCH/STR]
	V	(310–411)	55.0	325		[1973WIL/ZWO]
	V		50.5 ± 0.1	362	C	[1970COU/FEN]
	V		49.2 ± 0.1	374	C	[1970COU/FEN]
	V		47.0 ± 0.1	392	C	[1970COU/FEN]
	V		44.4 ± 0.1	411	C	[1970COU/FEN]
	V	(347–429)	51.6	362	EB	[1987STE/MAL, 1970AMB/SPR]
	V	(307–411)	56.2	322	DTA	[1969KEM/KRE]
	V		56.9 ± 0.2	298	C	[1966WAD]
	V		57.7 ± 1.1	298	EB	[1960GRE, 2001KUL/VER]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{12}O$	[6032-29-7]	2-pentanol				
	FUS		8.48	200		[1997LOH/JOH]
	V	(350–392)	47.2	365	EB	[2010CEN/VRB]
	V	(324–391)	51.2	339	EB	[2009GIE/KOS]
	V	(323–373)	53.6	298	CGC	[1995CHI/HOS]
	V	(274–393)	58.9	289	A	[1987STE/MAL]
	V		54.2 ± 0.2	298	C	[1985MAJ/SVO2]
	V		52.7 ± 0.2	313	C	[1985MAJ/SVO2]
	V		50.9 ± 0.2	328	C	[1985MAJ/SVO2]
	V		49.0 ± 0.2	343	C	[1985MAJ/SVO2]
	V		46.9 ± 0.1	358	C	[1985MAJ/SVO2]
	V		45.4 ± 0.1	368	C	[1985MAJ/SVO2]
	V	(322–393)	50.3	337		[1984SAC/MAR]
	V	(298–393)	54.0	313		[1973WIL/ZWO]
	V		53.0	298	C	[1963MCC/LAI]
	V	(298–383)	53.7	313		[1935BUT/RAM, 1984BOU/FRI]
$C_5H_{12}O$	[584-02-1]	3-pentanol				
	FUS		9.08	204.2		[1997LOH/JOH]
	V	(342–388)	46.7	357	EB	[2010CEN/VRB]
	V		53.2 ± 0.1	298	EB	[1988PES/SHV, 2001KUL/VER]
	V	(245–390)	59.9	260	A	[1987STE/MAL]
	V	(317–389)	49.6	332		[1984SAC/MAR]
	V	(279–318)	53.6	294		[1975CAB/CON2]
	V	(294–389)	50.2	319		[1973WIL/ZWO]
	V		52.9	298	C	[1963MCC/LAI]
$C_5H_{12}O$	[137-32-6]	2-methyl-1-butanol				
	V	(345–401)	49.9	360	EB	[2010CEN/VRB]
	V	(330–405)	51.2	345		[1994AUC/BUR]
	V	(338–402)	49.8	353	A	[1987STE/MAL]
	V	(317–403)	53.9	332	A	[1987STE/MAL]
	V	(249–319)	58.5	264	A	[1987STE/MAL, 1979THO/MEA]
	V	(307–403)	56.1	322		[1973WIL/ZWO]
	V		54.1	298	C	[1963MCC/LAI]
	V	(302–410)	43.4	317		[1957EAS/HAR, 1984BOU/FRI]
	V	(298–393)	56.7	313		[1984BOU/FRI, 1935BUT/RAM]
$C_5H_{12}O$	[75-85-4]	2-methyl-2-butanol				
	TRS	(80–305)	0.93	146.4		
	TRS	(80–305)	1.54	149.9		
	TRS	(80–305)	0.66	214.4		
	FUS	(80–305)	2.24	262.7	AC	[2008TON/TAN]
	TRS	(84–301)	0.9	145.8		
	FUS	(84–301)	2.0	264.7	AC	[2007STR/RUZ2]
	TRS		1.96	146		
	TRS		0.17	213		
	FUS		4.46	264		[1996DOM/HEA, 1933PAR/HUF]
	V	(336–375)	44.0	351		[2012LAA/ZAI]
	V	(335–375)	44.4	350	EB	[2010CEN/VRB]
	V	(303–373)	51.2	318	EB	[2009GIE/KOS]
	V	(274–306)	51.5 ± 0.3	298	GS	[2001KUL/VER]
	V	(323–373)	50.5	298	CGC	[1995CHI/HOS]
	V	(308–375)	47.3	323		[1994AUC/BUR]
	V		50.2 ± 0.3	298	EB	[1988PES/SHV, 2001KUL/VER]
	V	(280–375)	49.0	295	A	[1987STE/MAL]
	V	(323–376)	45.8	338	A	[1987STE/MAL]
	V		50.1 ± 0.2	298	C	[1985MAJ/SVO2]
	V		48.4 ± 0.2	313	C	[1985MAJ/SVO2]
	V		46.4 ± 0.2	328	C	[1985MAJ/SVO2]
	V		44.2 ± 0.1	343	C	[1985MAJ/SVO2]
	V		42.0 ± 0.1	358	C	[1985MAJ/SVO2]
	V		40.3 ± 0.1	368	C	[1985MAJ/SVO2]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(298–375)	52.8	313		[1973WIL/ZWO]
	V		49.2	298	C	[1963MCC/LAI]
	V	(298–364)	48.5	313		[1935BUT/RAM]
$C_5H_{12}O$	[123-51-3]	3-methyl-1-butanol				
	V	(366–404)	48.3	381	EB	[2010CEN/VRB]
	V	(348–404)	49.8	363		[2008LLA/MON]
	V	(323–373)	55.3	298	CGC	[1995CHI/HOS]
	V	(325–385)	47.2	340		[1994AUC/BUR]
	V	(303–412)	57.1	318	A	[1987STE/MAL]
	V		55.2 ± 0.2	303	C	[1985MAJ/SVO2]
	V		54.2 ± 0.2	313	C	[1985MAJ/SVO2]
	V		52.9 ± 0.2	328	C	[1985MAJ/SVO2]
	V		51.4 ± 0.2	343	C	[1985MAJ/SVO2]
	V		49.7 ± 0.2	358	C	[1985MAJ/SVO2]
	V	(298–426)	56.5	313		[1973WIL/ZWO]
	V		54.3	298	C	[1963MCC/LAI]
$C_5H_{12}O$	[598-75-4]	3-methyl-2-butanol				
	V	(352–385)	44.4	367	EB	[2010CEN/VRB]
	V	(280–301)	51.6 ± 0.3	298	GS	[2001KUL/VER]
	V	(280–375)	49.0	295	A	[1987STE/MAL]
	V	(298–384)	52.7	313		[1973WIL/ZWO]
	V		51.7	298	C	[1963MCC/LAI]
$C_5H_{12}O$	[598-75-4]	(*dl*)-3-methyl-2-butanol				
	V	(293–385)	46.4	308	A	[1987STE/MAL]
$C_5H_{12}O$	[75-84-3]	2,2-dimethyl-1-propanol				
	TRS	(10–370)	4.1	233.3		
	FUS	(10–370)	2.9	328.2	AC	[2007STR/RUZ2]
	FUS		3.87	329.8		[2003CEN/RUZ]
	TRS		4.14	235.4		
	FUS		3.73	329.8	DSC	[1999SAL/LOP]
	TRS		4.6	242.1		
	FUS		3.5	328.1	DSC	[1996GRA]
	TRS		4.46	242		
	FUS		4.06	325	DSC	[1970MUR/BRE]
	V	(345–385)	45.5	360	EB	[2010CEN/ROH]
	V	(274–312)	51.8 ± 0.3	298	GS, B	[2001KUL/VER]
	V	(330–387)	47.5	345	A	[1987STE/MAL]
$C_5H_{12}O_2$	[5137-45-1]	1-ethoxy-2-methoxyethane				
	V		39.8 ± 0.1	298	C	[1970KUS/WAD]
$C_5H_{12}O_2$	[77-76-9]	2,2-dimethoxypropane				
	V	(313–348)	34.4	328	EB	[2005YI/WAN, 2003JIA/LI]
[Note: Authors of [2005YI/WAN] used a corrected value of the Antione C-constant that was reported in their earlier paper [2003JIA/LI].						
	V	(272–301)	37.6 ± 0.4	298	GS	[2002VER]
	V	(272–301)	38.2 ± 0.4		GS	[1998VER/PEN]
	V	(299–348)	35.3	324	EB	[1994WIB/MOR]
	V	(292–357)	33.4 ± 0.2	325		[1988BAG/GUR]
$C_5H_{12}O_2$	[109-59-1]	2-isopropoxyethanol				
	V		50.1 ± 0.1	298	C	[1971MOR]
	V		50.1 ± 0.1	298	C	[1971KUS/WAD]
	V	(341–413)	45.1	356	A	[1987STE/MAL, 1957DYK/SEP, 1972DYK]
$C_5H_{12}O_2$	[2807-30-9]	2-propoxyethanol				
	V		52.1 ± 0.1	298	C	[1971KUS/WAD]
	V	(350–422)	46.3	365	A	[1987STE/MAL, 1957DYK/SEP, 1972DYK]
$C_5H_{12}O_2$	[462-95-3]	formaldehyde diethyl acetal (diethoxymethane)				
	V	(273–361)	36.1	288	A	[1987STE/MAL]
	V		35.7 ± 0.2	298	C	[1969MAN]
$C_5H_{12}O_2$	[684-84-4]	2-methyl-1,3-butanediol				

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(399–561)	62.4	414	A	[1987STE/MAL]
$C_5H_{12}O_2$	[2568-33-4] 3-methyl-1,3-butanediol					
	V	(346–475)	60.3	361	A	[1987STE/MAL]
$C_5H_{12}O_2$	[126-30-7] 2,2-dimethyl-1,3-propanediol					
	TRS		12.33	315.1		
	FUS		4.55	401.2	DSC	[2009SIN/MUR]
	TRS	(78–410)	14.78	314.3		
	FUS	(78–410)	7.52	402.4	AC	[2007TON/TAN]
	TRS		12.24	315.1		
	FUS		4.23	401.6	DSC	[2006DIV/CHE]
	TRS		12.37	315.2		
	FUS		4.95	401.8	DSC	[2004STU/WIT]
	TRS	(15–340)	0.18	60.4		
	TRS	(15–340)	12.5	314.5	AC	[2001KAM/SUE]
	TRS		0.18	60.4		
	TRS		12.43	314.4		
	FUS		4.34	402.8	DSC	[1999SAL/LOP]
	TRS		13.8	315.2		
	TRS		12.52	314.5	AC	[1999SUG]
	TRS		12.8	315.2		
	FUS		4.3	402.5	DSC	[1996GRA]
	TRS		12.41	314.8		
	FUS		4.44	403.3		[1996DOM/HEA, 1988ZHA/ZOU]
	TRS		13.64	314		
	FUS		4.71	398	DSC	[1996DOM/HEA, 1970MUR/BRE]
	FUS		4.6	403.2		[1973FRA/KRZ, 1994LOP/VAN]
	SUB (cryst)	(294–311)	85 ± 2			[1995FON/MUN]
	SUB (plastic)	(319–333)	75 ± 2			[1995FON/MUN]
	SUB (plastic)		75.5 ± 3.8	368	C	[1994FON/MUN2, 1994FON/MUN]
	SUB (cryst)		87.6 ± 4.4	350	C	[1994FON/MUN2, 1994FON/MUN]
	V	(400–480)	79.4	415	A	[1987STE/MAL]
$C_5H_{12}O_2$	[5343-92-0] 1,2-pentanediol					
	V	(289–345)	74.6 ± 0.3	298	GS	[2004VER2]
$C_5H_{12}O_2$	[111-29-5] 1,5-pentanediol					
	FUS		9.7	254.4	DTA	[1990KNA/SAB]
	FUS		15.72	248		[1996DOM/HEA, 1935MIL]
	V		83.0 ± 0.3	298	CGC	[2006UMN/KWE]
	V		86.8 ± 0.5	298	C	[1988KNA/SAB, 1990KNA/SAB2]
	V	(391–479)	78.6	406	A	[1987STE/MAL]
	V	(446–515)	64.9	480	EB	[1972GAR/HUS]
	V	(446–515)	82.4 ± 1.7	298	EB	[1972GAR/HUS]
$C_5H_{12}O_2$	[625-69-4] 2,4-pentanediol					
	V	(297–347)	72.5 ± 0.3	298	GS	[2007VER]
$C_5H_{12}O_2S$	[14094-12-3] *tert*-butyl methyl sulfone					
	FUS		24.69	357.6	FPM	[1961BUS/IVI]
	SUB		82.4 ± 2.5			[UR/MAC, 1970COX/PIL]
$C_5H_{12}O_3$	[17742-78-8] *tert*-butyldioxymethanol					
	V	(290–320)	59.6 ± 2.4		ME	[1983VAN/KAC]
$C_5H_{12}O_3$	[111-77-3] diethylene glycol, methyl ether					
	V	(385–466)	51.9	400	A	[1987STE/MAL, 1957DYK/SEP, 1972DYK]
$C_5H_{12}O_3$	[14642-48-9] 2,3,4-pentanetriol					
	V	(428–600)	78.9	443		[1947STU]
$C_5H_{12}O_3$	[77-85-0] 2-hydroxymethyl-2-methyl-1,3-propanediol					
	TRS		20.94	356.7		
	FUS		4.72	474.4	DSC	[1999SAL/LOP]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		23.17	354		
	FUS		5.38	470	DSC	[1996DOM/HEA, 1970MUR/BRE]
	TRS		21.1	357.4		
	FUS		4.8	472.4	DSC	[1996GRA]
	TRS	(18–375)	21.2	358.2	AC	
	FUS	(353–483)	4.7	473.7	DSC	[1990SUE/MAT]
	SUB (plastic)		84.2 ± 4.2	319	C	[1994FON/MUN]
	SUB (cryst)		109.2 ± 5.5	311	C	[1994FON/MUN]
$C_5H_{12}O_4$	[1850-14-2]	tetramethoxymethane				
	V	(304–387)	41.2	319		[1980THO/SMI]
$C_5H_{12}O_4$	[115-77-5]	pentaerythritol				
	TRS		33.3	457.0	DSC	[2014HU/ZHA]
	TRS		41.2	459.7		
	FUS		5.3	532.3	DSC	[1996GRA]
	TRS		40.5	458.3		
	FUS		4.6	513.2	DSC	[1990BAR/DEL]
	TRS		41.38	461.6	AC	[1989ZHA/YAN]
	TRS		43.93	460.4		
	FUS		7.11	538.7		[1996DOM/HEA, 1950NIT/SEK4]
	SUB (cryst)	(441–460)	134 ± 7			[1995FON/MUN]
	SUB (plastic)	(465–477)	96 ± 9			[1995FON/MUN]
	SUB		131.3 ± 6.6	403	C	[1994FON/MUN]
	SUB	(418–455)	161 ± 1.0	437	TE	[1990BAR/DEL]
	SUB		163.0	298		[1990BAR/DEL]
	SUB (tetragonal)	(397–410)	131.4		ME	[1951NIT/SEK2, 1960JON]
	SUB	(379–408)	143.9 ± 0.8		ME	[1953BRA/COT, 1960JON]
$C_5H_{12}O_5$	[488-81-3]	1,2,3,4,5-pentahydroxypentane (adonitol)				
	FUS	(78–400)	36.42	369.1	AC	[2010TON/YU]
	FUS		35.5	375.0	DSC	[2003CAR/DES]
	FUS		37.6	374.7	DSC	[1990BAR/DEL, 1996DOM/HEA]
	SUB		161.0	298	B	[1990BAR/DEL]
	V	(418–465)	111.1 ± 1.5	443	TE	[1990BAR/DEL]
$C_5H_{12}O_5$	[488-82-4]	1,2,3,4,5-pentahydroxypentane (D-arabinitol)				
	FUS		38.8	376.0	DSC	[2003CAR/DES]
	FUS		38.9	379.4	DSC	[1990BAR/DEL, 1990DOM/HEA]
	SUB		160.0	298	B	[1990BAR/DEL]
	V	(414–461)	110.1 ± 1.5	440	TE	[1990BAR/DEL]
$C_5H_{12}O_5$	[7643-75-6]	1,2,3,4,5-pentahydroxypentane (L-arabinitol)				
	FUS (I)		36.5	384.2		
	FUS (II)		28.8	358.2	DSC	[2013CAR/RHA]
	FUS		43.2	374.0	DSC	[2003CAR/DES]
$C_5H_{12}O_5$	[87-99-0]	xylitol				
	FUS		37.8	366.9	DSC	[2009SAL/BED]
	FUS		42.6	366.2	DSC	[2008KAI/MAR]
	FUS	(80–390)	33.26	369.0	AC	[2007TON/TAN2]
	FUS		33.68	367.5	DSC	[2007TON/TAN2]
	FUS		37.7	368.0	DSC	[2003CAR/DES]
	FUS		37.4	365.7	DSC	[1996DOM/HEA, 1990BAR/DEL]
	SUB		161	298	B	[1990BAR/DEL]
	V	(406–460)	111.1 ± 0.8	433	TE	[1990BAR/DEL]
$C_5H_{12}S$	[10359-64-5]	3-methyl-2-thiapentane				
	V	(288–418)	38.5	303		[1999DYK/SVO]
$C_5H_{12}S$	[5008-69-5]	4-methyl-2-thiapentane				
	V	(288–411)	36.9	303		[1999DYK/SVO]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{12}S$	[628-29-5]	butyl methyl sulfide				
	FUS		12.45	175.6		[1985DEA]
	FUS	(12–358)	12.45	175.3		[1961MCC/FIN]
	V	(297–423)	40.4	312		[1999DYK/SVO]
	V	(301–330)	35.3	315	A	[1987STE/MAL]
	V		40.5	298		[1981SHI/SAI]
	V		41.0	298		[1971WIL/ZWO]
	V		40.9 ± 0.8	298	GC	[1964GUB/FER]
	V	(296–325)	38.1	313	EB	[1962MAC/MAY2]
	V	(343–436)	38.0	358	A, EB	[1987STE/MAL, 1961MCC/FIN, 1966OSB/DOU]
$C_5H_{12}S$	[6163-64-0]	methyl *tert*-butyl sulfide				
	FUS		8.41	190.8		[1996DOM/HEA, 1962SCO/GOO]
	V	(245–352)	34.2	298		[2004SAW/MOK]
	V	(276–397)	36.5	291		[1999DYK/SVO]
	V		35.9	298		[1971WIL/ZWO]
	V	(305–411)	35.1	320	A, EB	[1987STE/MAL, 1962SCO/GOO, 1966OSB/DOU]
$C_5H_{12}S$	[5145-99-3]	ethyl isopropyl sulfide				
	V	(284–406)	38.1	299		[1999DYK/SVO]
	V		37.8	298		[1981SHI/SAI]
	V		38.5	298		[1971WIL/ZWO]
	V		37.9 ± 0.8	298	GC	[1964MAC/MCC]
	V	(296–325)	38.1	313	EB	[1962MAC/MAY2]
	V	(319–391)	36.3	334	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_5H_{12}S$	[4110-50-3]	ethyl propyl sulfide				
	FUS	(12–366)	10.58	156.1		[1996DOM/HEA, 1961MCC/FIN]
	V	(293–418)	39.8	308		[1999DYK/SVO]
	V		40	298		[1981SHI/SAI]
	V		39.5	298	C	[1981HOS/SCO]
	V	(331–398)	37.8	346	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_5H_{12}S$	[110-66-7]	1-pentanethiol				
	FUS		17.53	197.5		[1996DOM/HEA, 1952FIN/SCO]
	V	(300–426)	40.6	315		[1999DYK/SVO]
	V		41.1	298		[1971WIL/ZWO]
	V		37.1 ± 0.1	356	C	[1965FIN/HOS]
	V		36.4 ± 0.1	376	C	[1965FIN/HOS]
	V		34.9 ± 0.1	400	C	[1965FIN/HOS]
	V	(347–440)	38.1	362	A, EB	[1987STE/MAL, 1952FIN/SCO, 1966OSB/DOU]
$C_5H_{12}S$	[2084-19-7]	2-pentanethiol				
	V	(287–412)	38.4	302		[1999DYK/SVO]
	V	(347–435)	37.8	361	A	[1987STE/MAL]
$C_5H_{12}S$	[616-31-9]	3-pentanethiol				
	V	(288–413)	38.3	303		[1999DYK/SVO]
$C_5H_{12}S$	[1878-18-8]	2-methyl-1-butanethiol				
	V	(293–418)	39.2	308		[1999DYK/SVO]
	V		39.9 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V		39.7	298		[1971WIL/ZWO]
	V	(324–432)	37.6	339	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_5H_{12}S$	[541-31-1]	3-methyl-1-butanethiol				
	FUS		7.41	139.6		[1996DOM/HEA, 1974MES/FIN]
	V	(292–418)	39.3	307		[1999DYK/SVO]
	V		39.7	298		[1971WIL/ZWO]
	V		39.9 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(323–431)	37.7	338	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_5H_{12}S$	[1679-09-0]	2-methyl-2-butanethiol				
	V	(276–398)	36.3	291		[1999DYK/SVO]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		35.6	298		[1971WIL/ZWO]
	V	(320–411)	34.3	335	A, EB	[1987STE/MAL, 1962SCO/DOU]
	V		33.8 ± 0.1	330	C	[1962SCO/DOU]
	V		32.7 ± 0.1	350	C	[1962SCO/DOU]
	V		31.4 ± 0.1	372	C	[1962SCO/DOU]
$C_5H_{12}S$	[2084-18-6]	3-methyl-2-butanethiol				
	TRS	(12–370)	7.06	144.5		
	FUS	(12–370)	0.61	146.1		[1996DOM/HEA, 1974MES/FIN]
	V	(285–409)	37.7	300		[1999DYK/SVO]
	V		37.5 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V		37.7	298		[1971WIL/ZWO]
	V	(315–422)	36.2	330	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_5H_{12}S$	[1679-08-9]	2,2-dimethyl-1-propanethiol				
	V	(280–403)	36.9	295		[1999DYK/SVO]
	V		36.4 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V		36.8	298		[1971WIL/ZWO]
	V	(292–416)	36.2	307	A, EB	[1987STE/MAL, 1966OSB/DOU]
	V	(213–415)	42.1	230	EB, IPM	[1966OSB/DOU]
$C_5H_{12}S_2$	[928-98-3]	1,5-pentanedithiol				
	V	(363–491)	51.6	378	A	[1987STE/MAL, 1999DYK/SVO, 1943HAL/REI]
	V		59.3 ± 0.4	298		[1962MAN/SUN]
$C_5H_{12}S_2$	[5395-75-5]	3,5-dithiaheptane				
	V		50.8 ± 0.2	298	C	[1974MAN4]
$C_5H_{12}S_2$	[53966-36-2]	ethyl isopropyl disulfide				
	V	(369–426)	42.5	384		[1999DYK/SVO]
	V	(363–427)	42.9	378	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_5H_{12}S_2$	[30453-31-7]	ethyl propyl disulfide				
	V	(373–414)	44.0	388	A, EB	[1987STE/MAL, 1952WHI/BAR, 1999DYK/SVO]
$C_5H_{12}S_4$	[6156-25-8]	tetra(methylthia)methane				
	TRS	(13–360)	7.09	296.2		
	TRS	(13–360)	7.29	318.8		
	FUS	(13–360)	3.31	338.9	AC	[1998SOR/KIM]
	TRS		6.11	296.4		
	TRS		7.61	318.7		
	FUS		4.14	338.7		[1996DOM/HEA, 1943BAC/PER]
$C_5H_{13}N$	[19961-27-4]	*N*-ethylisopropylamine				
	V		33.1 ± 0.1	298	C	[1979PET/MAJ]
	V		32.1 ± 0.1	313	C	[1979PET/MAJ]
	V		31.0 ± 0.1	328	C	[1979PET/MAJ]
	V		28.8 ± 0.1	358	C	[1979PET/MAJ]
	V	(303–342)	33.4	318	EB	[1979PET/MAJ]
$C_5H_{13}N$	[616-39-7]	*N*, *N*-diethylmethylamine				
	V	(283–339)	31.8	298	A	[1987STE/MAL]
$C_5H_{13}N$	[110-68-9]	*N*-methylbutylamine				
	V	(283–313)	38.1	298	A	[1987STE/MAL]
$C_5H_{13}N$	[14610-37-8]	*tert*-butylmethylamine				
	V	(270–288)	32.3 ± 1.4	297		[1997VER]
$C_5H_{13}N$	[110-58-7]	pentylamine				
	V	(322–378)	40.9	298	EB	[2004ANT/GAL]
	V	(298–417)	39.0	313	A	[1987STE/MAL, 1972DYK]
	V		40.1 ± 0.1	298	C	[1969WAD]
	V		36.0	368	C	[1901KAH]
$C_5H_{13}N$	[996-35-0]	*N*, *N*-dimethyl-2-propanamine				
	V	(275–334)	31.9	298	Static	[2013CHI/DER]

TABLE 8. Phase change enthalpies of C_5 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_5H_{13}NO$	[110-73-6]	2-(ethylamino)ethanol				
	V	(282–321)	61.0 ± 0.4	298	GS	[2005KAP/SLO]
$C_5H_{13}NO$	[3179-63-3]	3-dimethylamino-1-propanol				
	V	(283–373)	57.0	298	Static	[2010BEL/AHM]
$C_5H_{13}NO_2$	[105-59-9]	*N*-methyl diethanolamine				
	V	(409–435)	71.5	422	EB	[2008KIM/SVE]
	V	(390–520)	73.0	405	A	[1987STE/MAL]
$C_5H_{13}NO_2S$	[2374-61-0]	*N*, *N*-diethyl methanesulfonamide				
	V	(384–528)	52.1	399	A	[1987STE/MAL]
	V	(384–528)	49.5	456		[1978LUK/MAK]
$C_5H_{13}NS$	[41881-76-9]	*N*-methyl-*tert*-butylsulfenamide				
	V	(329–397)	41.9	364		[1999DYK/SVO, 1939RHE/MOT]
$C_5H_{13}N_3$	[80-70-6]	1,1,3,3-tetramethylquanidine				
	V		50.0 ± 1.2	298	C	[2014VIT/AGA]
	V		46.9			[1967AND/HAM]
$C_5H_{13}O_3P$	[683-08-9]	diethyl methylphosphonate				
	V	(253–465)	60.6	253	GS	[2009BUT/BUC]
	V	(253–465)	57.2	283	GS	[2009BUT/BUC]
	V	(253–465)	55.9	298	GS	[2009BUT/BUC]
	V	(253–465)	54.7	313	GS	[2009BUT/BUC]
	V	(253–465)	53.4	333	GS	[2009BUT/BUC]
	V	(253–465)	51.2	373	GS	[2009BUT/BUC]
	V	(343–402)	51.8	358	A	[1987STE/MAL, 1972DYK]
	V		56.5 ± 4.2			[1956NEA/WIL, 1982PIL/SKI]
$C_5H_{14}NP$	[91669-45-3]	trimethylphosphine-*N*-ethylimine				
	V		61.5 ± 4.2			[1960CLA/FOW, 1982PIL/SKI]
$C_5H_{14}N_2$	[109-55-7]	*N*, *N*-dimethyl-1,3-propanediamine				
	FUS	(12–300)	12.38	194.4	AC	[1996DOM/HEA, 1982DZH/KAR]
	V	(273–300)	46.0 ± 0.2	298	GS	[2012VER/CHE]
	V		42.2 ± 0.1	298	C	[1992PAP/PIM]
	V	(303–366)	45.7	318	A	[1987STE/MAL]
	V	(303–408)	42.0	318	A	[1987STE/MAL]
	V	(285–310)	44.0 ± 0.2	298		[1984LEB/GUT, 2012VER/CHE]
	V		52.7			[1977VAS/KOT]
	V	(304–365)	46.7 ± 0.4	298	EB	[1977VAS/PET, 2012VER/CHE]
$C_5H_{14}N_2$	[51-80-9]	bis(dimethylamino)methane				
	V		33.1 ± 0.4	298	C	[1974ROG/RAP]
	V	(273–348)	32.3	310		[1965AYL/PET]
$C_5H_{14}N_2$	[589-37-7]	pentane-1,3-diamine				
	V	(273–451)	48.8	377	Static	[2015BOU/NEG]
	V	(273-451	54.9	298	Static	[2015BOU/NEG]
$C_5H_{14}N_2$	[462-94-2]	pentane-1,5-diamine				
	FUS		29.82	285	DSC	[2002DAL/DEL]
	V	(288–311)	58.7	298	Static	[2014FUL/RUZ]
	V	(293–343)	56.8	318	GS	[2011POZ/VER]
	V	(293–343)	58.3 ± 0.2	298	GS	[2011POZ/VER]
$C_5H_{14}N_2$	[7328-91-8]	2,2-dimethyl-1,3-diaminopropane				
	TRS		14.7	194.2		
	FUS		1.7	301.7	DTA, DSC	[1996STR/BRA]

TABLE 9. Phase change enthalpies of C_6 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6BrF_5	[344-04-7]	bromopentafluorobenzene				
	V	(400–522)	38.2	415	A	[1987STE/MAL, 1972DYK]
	V	(283–348)	43.1 ± 0.2	298		[1977KRE/PRI]
	V	(414–522)	38.0	429	EB	[1969WOO/ADI]
$C_6BrF_{15}N_2S$	[62977-74-6]	bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]diimidosulfurylbromide fluoride				
	V		41.0	476	I	[1977KIT/SHR2]
C_6Br_6	[87-82-1]	hexabromobenzene				
	FUS		24.6	598.8	DSC	[2004KUR/MAE2]
	SUB	(363–413)	118	388	GS	[2014KUR/TAK]
$C_6ClF_{15}N_2S$	[62977-72-4]	bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]diimidosulfurylchloride fluoride				
	V		37.2	458	I	[1977KIT/SHR2]
C_6ClF_5	[344-07-0]	chloropentafluorobenzene				
	TRS	(12–395)	3.64	191		
	TRS	(12–395)	0.98	245		
	FUS	(12–395)	8.36	257.5		[1996DOM/HEA, 1968AND/COU]
	V	(290–550)	41.3	298		[1991BAS/SVO]
	V	(348–402)	37.7	363	A	[1987STE/MAL]
	V	(307–417)	40.0	322	A	[1987STE/MAL, 1968AMB]
	V		37.7 ± 0.1	349	C	[1968AND/COU]
	V		36.4 ± 0.1	369	C	[1968AND/COU]
	V		34.8 ± 0.1	391	C	[1968AND/COU]
	V	(403–547)	35.2	418	EB	[1966EVA/TIL]
$C_6ClF_{13}N_2$	[33757-14-1]	1-chloro-1′, 2, 2, 2, 2′, 2′, 2-heptafluoro-1, 1′-bis(trifluoromethyl)azoethane				
	V	(297–355)	33.3	312	A	[1987STE/MAL, 1971SWI/ZAB]
$C_6ClF_{14}P$	[756-17-2]	bis(heptafluoropropyl) chlorophosphine				
	V	(283–373)	37.5	328		[1959EME/SMI]
$C_6Cl_2F_{12}N_2S$	[38005-17-3]	bis(2-chlorohexafluoroisopropylimino) sulfur				
	V		43.5	404	I	[1972MET/SHR]
$C_6Cl_3F_3$	[319-88-0]	1,3,5-trichloro-2,4,6-trifluorobenzene				
	FUS		19.83	335		[1991ACR, 1973AND/MAR2, 1969PAU/GLU]
	V	(364–496)	49.2	379	A	[1987STE/MAL]
	V	(364–550)	53.8	298		[1984BOU/FRI, 1991BAS/SVO]
$C_6Cl_3F_{14}P$	[1764-51-8]	trichloro bis(heptafluoropropyl)phosphorane				
	V	(323–393)	40.1	358		[1959EME/SMI]
$C_6Cl_3N_3O_6$	[2631-68-7]	1,3,5-trichloro-2,4,6-trinitrobenzene				
	V	(503–543)	68.9	518	A	[1987STE/MAL, 1968MAK]
	V	(503–543)	43.2	518		[1972DYK]
$C_6Cl_4O_2$	[118-75-2]	2,3,5,6-tetrachloro-1,4-benzoquinone (chloranil)				
	FUS		30.87	567.2	DSC	[1991ACR, 1990DON/DRE]
	SUB	(333–356)	98.7 ± 8.3		QF	[1927COO/COO, 1960JON, 1970COX/PIL]
	V	(343–435)	88.5	358		[1947STU]
$C_6Cl_5NO_2$	[82-68-8]	pentachloronitrobenzene				
	FUS		19.2	418	DSC	[2011KAN/RAI]
	FUS		18.41	418	DSC	[1991ACR, 1972PLA, 1990DON/DRE]
	SUB		96.3 ± 2.1	298	C	[2009RIB/FER6]
	SUB	(317–339)	93.0 ± 0.4	328	ME	[2009RIB/FER6]
	SUB	(317–339)	94.5 ± 0.4	298	ME	[2009RIB/FER6]
C_6Cl_6	[118-74-1]	hexachlorobenzene				
	FUS		25.2	502	DTA	[1991SAB/AN2]
	FUS		23.85	505	DSC	[1991ACR, 1990DON/DRE, 1969PLA/GLA]
	FUS		22.4	501.1	DSC	[1984MIL/GHO]
	SUB	(397–424)	76 ± 4	411		[2010VEC]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(358–403)	96.8 ± 0.5	298	GS	[2007VER/EME]
	SUB	(258–313)	105			[1994LIU/DIC]
	SUB	(253–303)	77.4 ± 0.8	278	GS	[1994WAN/SHU]
	SUB		89.6 ± 0.2	337	C	[1991SAB/AN2]
	SUB		90.5 ± 0.2	298	C	[1991SAB/AN2]
	SUB	(461–506)	85.5			[1989LUB/JAN]
	SUB	(387–502)	62.7	402	A	[1987STE/MAL]
	SUB	(314–373)	94.7	344	GS	[1986ROR/SAR, 1997DEL]
	SUB	(288–318)	101.3	303	GS	[1980FAR/YAN]
	SUB	(312–337)	79.5 ± 1.2			[1977STE2]
Note: In [1977STE2] the sublimation surface was glass and hay						
	SUB	(369–397)	92 ± 8.2		RG	[1949SEA/HOP2, 1970COX/PIL]
	V		74.4 ± 0.7	298	GS	[2001PUR/CHI]
	V	(413–453)	76.8	298	GC	[1994SPI/LUI]
	V	(258–313)	81.3		GC	[1994LIU/DIC]
	V	(343–453)	68.6	398	GC	[1990HIN/BID2]
	V	(502–589)	68.7	517	A	[1987STE/MAL]
	V	(387–582)	60.5	402		[1947STU]
$C_6D_{10}O$	[51209-49-5]	cyclohexanone-d_{10}				
	TRS		7.1	216.8		
	TRS		0.4	219.3		
	FUS		1.19	241.5	DTA	[1997BUS/HAM]
$C_6F_5NO_2$	[880-78-4]	pentafluoronitrobenzene				
	FUS		11.81	250.5		[1996DOM/HEA, 1971PAU]
C_6F_6	[392-56-3]	hexafluorobenzene				
	FUS		11.61	278.2	DTA	[1994TAN/SAB3]
	FUS		11.59	278.3		[1970MES/FIN]
	FUS		11.59	278.3		[1996DOM/HEA, 1965COU/GRE]
	SUB	(215–278)	49.2	263		[1987STE/MAL, 1965DOU/OSB]
	SUB	(238–268)	49.8	253	IPM, A	[1979SCO/OSB]
	SUB		46.0	316	B	[1965COU/GRE]
	V	(288–333)	36.1 ± 0.1	298		[2005DIA/GON]
	V	(318–376)	34.4	333	EB	[1990AMB/EWI]
	V	(403–516)	31.8	425		[1988DAV/EWI]
	V	(278–354)	36.5	293	A	[1987STE/MAL]
	V	(348–389)	33.2	363	A	[1987STE/MAL]
	V	(384–462)	32.2	399	A	[1987STE/MAL]
	V	(458–517)	31.8	473	A	[1987STE/MAL]
	V	(290–510)	35.6	298		[1982INV, 1991BAS/SVO]
	V		35.7	298	C	[1981HOS/SCO]
	V	(293–323)	35.7	308		[1980PAT/TOM]
	V	(281–335)	36.4 ± 0.1	298		[1972KRE/PRI]
	V	(278–321)	36.2	292	MM	[1969FIN]
	V	(363–516)	32.2	378	EB	[1966EVA/TIL]
	V	(275–387)	36.5	293		[1965DOU/OSB]
	V	(293–356)	35.1	308		[1964PAT/PRO, 1984BOU/FRI]
C_6F_7NOS	[20094-84-2]	*N*-(pentafluorophenyl)imidosulfuryl fluoride				
	V	(309–355)	45.3	332		[1968GLE/VON]
C_6F_7OP	[59646-78-5]	pentafluorophenoxydifluorophosphine				
	V	(310–363)	42.4	325		[1976FAL/DES]
$C_6F_7O_2P$	[59617-42-4]	pentafluorophenoxyphosphoryl difluoride				
	V	(323–367)	46.4	338		[1976FAL/DES]
C_6F_8	[5680-05-7]	perfluoro(2-methyl-3-methylenecyclobutene)				
	V	(243–306)	31.0	258	A, I	[1987STE/MAL, 1966BAN/BAR]
C_6F_{10}	[355-75-9]	perfluorocyclohexene				
	V	(277–319)	31.0	298		[1979PRI/SAP]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6F_{10}O_4$	[32750-98-4]	2,2,3,3,4,4,5-heptafluoro-5-oxo-pentaneperoxoic acid, trifluoromethyl ester				
	V		43.8			[1971BER/HOH]
$C_6F_{11}NO$	[52225-58-8]	2,2,3,3,3-pentafluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]propanamide				
	V		32.7	338		[1974PET/SHR]
$C_6F_{11}NO_2S$	[77589-41-4]	2,2,3,3,4,4,5,5-octafluoro-1,1,2,3,4,5-hexahydro-1-[(trifluoroacetyl)imino]thiophene-1-oxide				
	V		33.9	383		[1981ABE/SHR2]
C_6F_{12}	[1805-22-7]	perfluoromethylcyclopentane				
	V		30.68	298	EB	[1998EWI/SAN]
C_6F_{12}	[355-68-0]	perfluorocyclohexane				
	SUB	(252–326)	36.4	267	A	[1987STE/MAL, 1967CRO/TAY]
	SUB	(293–333)	36.2	313		[1957ROW/THA]
	V	(373–457)	28.0	388		[1988DAV/EWI]
	V	(274–322)	36.0	298		[1979PRI/SAP]
	V	(350–451)	28.1	365	A	[1987STE/MAL, 1967CRO/TAY]
	V	(336–394)	29.6	351		[1957MCC/DOU, 1984BOU/FRI]
C_6F_{12}	[2994-71-0]	perfluoro(1,2-dimethylcyclobutane)				
	V	(242–318)	32.1	257	A	[1987STE/MAL, 1967CRO/TAY]
$C_6F_{12}N_2$	[19451-96-8]	*N*, *N*, *N*, *N*-tetrakis(trifluoromethyl)-1,2-ethynylenediamine				
	V	(305–328)	32.1	316	A	[1987STE/MAL, 1968FRE/TIP]
$C_6F_{12}N_2OS$	[34619-84-6]	1,1,1,3,3,3-hexafluoro-2-isocyanato-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-2-propanamine				
	V		39.3	375	I	[1972SWI/BAB]
$C_6F_{12}N_2O_2S$	[62609-66-9]	1,1,1-trifluoro-*N′*-(trifluoroacetyl)-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]methane-sulfonimidamide				
	V		32.6	404	I	[1977KIT/SHR]
$C_6F_{12}N_2S$	[31340-33-7]	bis[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]sulfoxylic diamide				
	V		40.6	391	I	[1972SWI/BAB]
$C_6F_{12}N_2S_2$	[38005-16-2]	bis(hexafluoroisopropylidenimino) disulfide				
	V		46.0	417	I	[1972MET/SHR]
$C_6F_{12}O$	[788-40-9]	perfluoro(methoxycyclopentane)				
	V	(246–330)	38.6	261	A	[1957POR/CAD, 1987STE/MAL, 1972DYK]
	V		30.3	330		[1957POR/CAD]
$C_6F_{12}O_2$	[24165-10-4]	trifluoroacetic acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl) ethyl ester				
	V	(264–298)	34.3	279	A	[1987STE/MAL, 1975WAL/DES2]
	V		33.1	329	HG	[1973MAJ/SHR]
$C_6F_{12}O_4$	[55100-93-1]	carbonoperoxoic acid, *O*-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl-*O*, *O*-(trifluoromethyl) ester ester				
	V	(273–315)	33.5	288	A	[1987STE/MAL, 1975WAL/DES2]
$C_6F_{13}NS$	[54120-07-9]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]ethanimidothioic acid, trifluoromethyl ester				
	V		35.3	360		[1975PET/SHR]
C_6F_{14}	[355-42-0]	perfluorohexane				
	FUS		9.03	182.5	DSC	[1986STA]
	TRS	(4–300)	0.97	103		
	FUS	(4–300)	6.84	185	C	[1996DOM/HEA, 1982CAM/REY]
	FUS		6.61	191		[1958DUN/MUR]
	V	(289–333)	32.5 ± 0.1	298		[2005DIA/GON]
	V	(261–334)	34.4	276	A	[1987STE/MAL]
	V	(285–340)	31.4	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(433–449)	33.4	441	A	[1987STE/MAL, 1978MOU]
	V		28.2	330		[1967CRO/TAY]
	V	(303–330)	31.5	316		[1958DUN/MUR, 1984BOU/FRI]
	V	(284–342)	32.4	298		[1952STI/CAD]
C_6F_{14}	[355-04-4]	perfluoro-2-methylpentane				
	V	(280–340)	31.4	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(253–329)	34.5	268	A	[1987STE/MAL, 1967CRO/TAY, 1984BOU/FRI]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		28.0	331		[1967CRO/TAY]
	V	(277–341)	32.5	292		[1952STI/CAD, 1984BOU/FRI]
C_6F_{14}	[865-71-4]	perfluoro-3-methylpentane				
	V	(282–333)	30.8	297	A	[1987STE/MAL]
	V		28.0	331		[1967CRO/TAY]
C_6F_{14}	[354-96-1]	perfluoro-2,3-dimethylbutane				
	V	(260–340)	31.6	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(262–333)	33.0	277	A	[1987STE/MAL, 1967CRO/TAY, 1984BOU/FRI]
	V		29.0	333		[1967CRO/TAY]
$C_6F_{14}IP$	[756-18-3]	bis(heptafluoropropyl) iodophosphine				
	V	(273–353)	41.6	313		[1959EME/SMI]
$C_6F_{14}N_2S$	[34451-12-2]	bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl] sulfur diimide				
	V	(325–378)	38.5	340	A	[1987STE/MAL, 1972SWI/SHR]
$C_6F_{14}O$	[356-62-7]	perfluorodipropyl ether				
	V	(306–327)	31.2 ± 0.4	298	EB	[1989VAR/PAS]
$C_6F_{15}N$	[359-70-6]	perfluorotriethylamine				
	TRS		1.56	146.4		
	FUS	(9–300)	5.56	156.2		[1996DOM/HEA, 1979ZHO/KOS]
	V	(297–343)	34.0 ± 0.4	298	EB	[1995VAR/DRO]
	V		34.2 ± 0.1	298	C	[1995VAR/DRO]
	V	(320–334)	32.8	327	A	[1987STE/MAL]
	V	(317–349)	32.9	332	A	[1987STE/MAL]
	V	(285–343)	33.2	314		[1951HAS]
$C_6F_{15}NO$	[54566-82-4]	1,1,1,2,3,3,3,-heptafluoro-*N*-(pentafluoroethyl)-*N*-(trifluoromethyl)-2-propanamine				
	V		27.1	338		[1975PET/SHR2]
$C_6F_{16}O_4S_2$	[63441-15-6]	2,2,4,4-tetrafluoro-1,1,3,3-tetrahydro-1,1,3,3-tetrakis(trifluoromethoxy)-1,3-dithietane				
	V		37.2	404	I	[1977KIT/SHR3]
$C_6F_{16}N_2S$	[59617-31-1]	bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]diimidosulfuryl fluoride				
	V		35.8			[1976STA/MEW]
$C_6F_{16}S$	[1423-18-3]	difluorobis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl] sulfur				
	V	(273–383)	36.6	328	A	[1987STE/MAL, 1999DYK/SVO, 1962ROS/MUE]
$C_6F_{18}NP_3$	[2071-50-3]	nitrilotris[bis(trifluoromethyl)phosphine]				
	SUB	(273–309)	68.4	291		[1965BUR/HEN]
$C_6F_{20}N_3O_3P$	[36544-21-5]	phosphorous tris[bis(trifluoromethyl)nitroxide] difluoride				
	V		39.3	421		[1973WAN/SHR]
C_6N_2	[16419-78-6]	dicyanobutadiyne				
	SUB	(294–335)	34.4	309	A	[1987STE/MAL]
	SUB	(295–335)	35.9	315	I	[1957SAG]
	V	(341–369)	30.2	355	A	[1987STE/MAL, 1957SAG]
C_6N_4	[670-54-2]	tetracyanoethylene				
	FUS		24.92	472.2	DSC	[1991RAD/RAD]
	FUS		23.69	475.2	DSC	[1991BER/MAR]
	TRS		3.47	326	DSC	[1985MUK/CHA]
	SUB	(333–371)	81.4	348	A	[1987STE/MAL]
	SUB	(290–312)	84.3	302	TE, ME	[1983DEW/VAN]
	SUB	(333–370)	81.2 ± 5.9	350	MG	[1963BOY, 1970COX/PIL]
	SUB		78.0		GS	[1958LOO/DOW]
$C_6N_6O_3$	[16279-15-5]	benzotrifurazan				
	SUB	(303–333)	95.8 ± 3.8			[1999MAT/PEP]
$C_6N_6O_3$	[155438-13-4]	3, 3′-dicyanofuranzyanyl ether				
	V	(413–463)	58.2	438	BG	[2016SIN/BUR]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6N_6O_6$	[3470-17-5]	benzotrifuroxan				
	SUB	(363–433)	172.0 ± 2.5			[1999MAT/PEP]
$C_6N_8O_8$	[371951-09-6]	3,4-dinitrofurazanfuroxan				
	FUS		93.83	381.9	DSC	[2004GEN/PEI]
	SUB	(323–383)	133.8	353	TGA	[2013LIU/ZHA]
	V	(393–423)	90.9	408	TGA	[2013LIU/ZHA]
$C_6HBrF_{12}N_2$	[19451-95-7]	*trans*-1-bromo-*N*, *N*, *N′*, *N′*-tetrakis(trifluoromethyl)vinylenediamine				
	V	(348–371)	32.3	359	A	[1987STE/MAL, 1968FRE/TIP]
C_6HBr_5O	[608-71-9]	pentabromophenol				
	FUS		27.6	469.8	DSC	[2004KUR/MAE]
	TRS		11.29	441.5		
	FUS		19.14	502	DSC	[1995WOJ/TOU]
$C_6HClF_{11}NO$	[52225-62-4]	*N*-[1-chloro-2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-2,2,3,3,3-pentafluoropropanamide				
	V		40.8	381		[1974PET/SHR]
$C_6HCl_2N_3O_6$	[1630-09-7]	1,3-dichloro-2,4,6-trinitrobenzene				
	V	(504–563)	46.9	519	A	[1987STE/MAL, 1972DYK]
	V	(504–533)	80.4			[1968MAK]
$C_6HCl_3F_8O_2$	[2106-54-9]	octafluoro-3,5,6-trichlorohexanoic acid				
	V	(373–505)	64.2	388	A	[1987STE/MAL, 1972DYK, 1957BAR/SEF]
$C_6HCl_3O_2$	[634-85-5]	trichloro-1,4-benzoquinone				
	SUB	(301–327)	88.7 ± 8.3		QF	[1927COO/COO, 1960JON, 1970COX/PIL]
$C_6HCl_4NO_2$	[117-18-0]	1,2,4,5-tetrachloro-3-nitrobenzene				
	FUS		19.46	373.3	DSC	[1991ACR, 1990DON/DRE]
	SUB		91.3 ± 2.5	298	C	[2009RIB/FER6]
C_6HCl_5	[608-93-5]	pentachlorobenzene				
	FUS		20.6	357.7	DSC	[1991ACR, 1984MIL/GHO]
	SUB		87.1 ± 0.4	298	C	[1991SAB/AN2]
	V		66.0	357		[1999ROH/RUZ]
	V	(413–453)	67.7	298	GC	[1994SPI/LUI]
	V	(371–549)	62.1	386	A	[1987STE/MAL, 1947STU]
C_6HCl_5O	[87-86-5]	pentachlorophenol				
	TRS		9.15	350.2		
	FUS		15.63	462.6	DSC	[2008MOG/SEP]
	TRS		8.28	341.0		
	FUS		15.17	464.0	DSC	[1995WOJ/TOU]
	FUS		17.15	462.5	DSC	[1991ACR, 1969PLA/GLA]
	SUB	(348–403)	91.6 ± 0.5	298	GS	[2007VER/EME]
	SUB		67.4 ± 2.1			[UR/STU, 1970COX/PIL]
	V	(463–507)	69.0	478	A	[1987STE/MAL, 1972DYK]
C_6HF_5	[363-72-4]	pentafluorobenzene				
	FUS		10.85	225.8		[1991ACR, 1968COU/HAL2]
	FUS		10.88	225.7		[1996DOM/HEA, 1969PAU/LAV3]
	V	(358–397)	33.5	373	A	[1987STE/MAL]
	V	(393–479)	32.6	408	A	[1987STE/MAL]
	V	(473–531)	32.2	488	A	[1987STE/MAL]
	V	(290–510)	36.2	298		[1982INV, 1991BAS/SVO]
	V	(322–368)	34.8	337	A	[1987STE/MAL, 1968AMB]
	V	(373–530)	32.0	388	EB	[1966EVA/TIL]
	V	(298–356)	35.7	313		[1964PAT/PRO, 1984BOU/FRI]
C_6HF_5O	[771-61-9]	pentafluorophenol				
	TRS	(13–328)	1.5	245.2		
	FUS	(13–328)	12.8	306.0	AC	[1969PAU/LAV2]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS	(12–377)	1.16	287		
	FUS	(12–377)	16.41	310.6		[1968AND/COU]
	SUB	(273–299)	67.4 ± 1.7		GS	[1969COX/GUN, 1970COX/PIL]
	V	(323–455)	52.2 ± 0.4	298	EB	[1997STE/CHI2]
	V	(323–455)	48.1 ± 0.4	340	EB	[1997STE/CHI2]
	V	(323–455)	44.4 ± 0.3	380	EB	[1997STE/CHI2]
	V	(323–455)	40.6 ± 0.4	420	EB	[1997STE/CHI2]
	V	(378–428)	44.2	393	A	[1987STE/MAL, 1968AMB]
$C_6HF_{12}NO$	[52225-64-6]	2,2,3,3,3-pentafluoro-*N*-[1,2,2,-tetrafluoro-1-(trifluoromethyl)ethyl]propanamide				
	V		41.3	368		[1974PET/SHR]
$C_6HF_{12}NOS$	[62067-08-7]	2,2,2-trifluoro-*N*-[(trifluoromethyl)thio]ethanimidic acid, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ether				
	V		33.6	364	I	[1977BUR/SHR2]
$C_6H_2BrCl_3O$	[85117-86-8]	3-bromo-2,4,6-trichlorophenol				
	V	(385–579)	67.1	400	A	[1987STE/MAL, 1947STU]
$C_6H_2Br_4$	[636-28-2]	1,2,4,5-tetrabromobenzene				
	FUS		24.4	454.5	DSC	[2004KUR/MAE2]
	TRS		0.34	306.8		
	FUS (γ)		27.88	453.1	DTA	[1996DOM/HEA, 1991MON/HOU]
$C_6H_2ClN_3O_6$	[88-88-0]	1-chloro-2,4,6-trinitrobenzene				
	SUB		103.8		DSC	[1990HWA/YOS]
	SUB		103.0			[1950NIT/SEK]
	V		85.4		DSC	[1990HWA/YOS]
	V	(473–543)	63.1	488	A	[1987STE/MAL, 1968MAK]
$C_6H_2Cl_2O_2$	[697-91-6]	2,6-dichloro-1,4-benzoquinone				
	SUB	(274–315)	69.9 ± 8.3		QF	[1927COO/COO, 1960JON, 1970COX/PIL]
$C_6H_2Cl_3F$	[36556-33-9]	1-fluoro-2,4,6-trichlorobenzene				
	V	(344–489)	41.1	359	A	[1987STE/MAL]
$C_6H_2Cl_3NO_2$	[89-69-0]	2,4,5-trichloro-1-nitrobenzene				
	V	(427–560)	56.7	442	A	[1987STE/MAL]
$C_6H_2Cl_3NO_2$	[18708-70-8]	2,4,6-trichloro-1-nitrobenzene				
	SUB		84.3 ± 1.9	298	C	[2009RIB/FER6]
	SUB	(287–303)	86.9 ± 1.1	295	ME	[2009RIB/FER6]
	SUB	(287–303)	86.7 ± 1.1	298	ME	[2009RIB/FER6]
$C_6H_2Cl_4$	[634-66-2]	1,2,3,4-tetrachlorobenzene				
	FUS		17.0	319.7	DTA	[1991SAB/AN2]
	FUS		17.0	320	DSC	[1991ACR, 1984MIL/GHO]
	SUB		78.8 ± 0.2	298	C	[1991SAB/AN2]
	V	(413–453)	60.1	298	GC	[1994SPI/LUI]
	V	(341–527)	56.7	356	A	[1987STE/MAL, 1947STU]
$C_6H_2Cl_4$	[634-90-2]	1,2,3,5-tetrachlorobenzene				
	FUS		19.0	323.9	DSC	[1991ACR, 1984MIL/GHO]
	SUB		79.6 ± 0.3	298	C	[1991SAB/AN2]
	V	(413–453)	60.7	298	GC	[1994SPI/LUI]
	V	(331–519)	51.1	346	A	[1987STE/MAL, 1947STU]
$C_6H_2Cl_4$	[95-94-3]	1,2,4,5-tetrachlorobenzene				
	FUS		27.25	413.3	DSC	[2008MOG/SEP]
	FUS		24.4	410.1	DSC	[2002RAI/PAN]
	FUS		24.9	412.6	DTA	[1991SAB/AN2]
	FUS (β)		26.34	412.8	DTA	[1991MON/HOU]
	FUS		24.1	412.2	DSC	[1991ACR, 1984MIL/GHO]
	SUB		83.2 ± 0.3	298	C	[1991SAB/AN2]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(413–453)	60.7	298	GC	[1994SPI/LUI]
	V	(419–518)	52.0	434	A	[1987STE/MAL, 1947STU]
$C_6H_2Cl_4O$	[58-90-2]	2,3,4,6-tetrachlorophenol				
	V	(373–548)	64.8	388	A	[1987STE/MAL, 1947STU]
$C_6H_2Cl_4O_2$	[1198-55-6]	3,4,5,6-tetrachloro-1,2-benzenediol				
	V	(293–323)	77.9	308	CGC	[1999LEI/WAN2]
$C_6H_2Cl_4O_2$	[87-87-6]	tetrachlorohydroquinone				
	SUB	(298–359)	89.0	313	A	[1987STE/MAL]
	SUB	(333–356)	88.7		QF	[1927COO/COO, 1960JON]
$C_6H_2Cl_5N$	[527-20-8]	pentachloroaniline				
	FUS		18.7	505.8	DSC	[1991ACR, 1990DON/DRE]
$C_6H_2F_4$	[551-62-2]	1,2,3,4-tetrafluorobenzene				
	FUS	(11–353)	10.93	233.3	AC	[1973AND/MAR]
	V	(300–390)	37.5	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(300–392)	36.8	315	A	[1987STE/MAL, 1975AMB/ELL2, 1984BOU/FRI]
	V	(279–323)	37.0	294	MM	[1987STE/MAL, 1969FIN]
$C_6H_2F_4$	[2367-82-0]	1,2,3,5-tetrafluorobenzene				
	FUS	(11–353)	10.67	226.9	AC	[1973AND/MAR]
	V	(385–416)	32.4	400	A	[1987STE/MAL]
	V	(290–380)	36.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(287–382)	36.0	302	A	[1987STE/MAL, 1975AMB/ELL2, 1984BOU/FRI]
	V	(279–323)	36.0	294	MM	[1987STE/MAL, 1969FIN]
$C_6H_2F_4$	[327-54-8]	1,2,4,5-tetrafluorobenzene				
	FUS	(11–353)	15.05	277	AC	[1973AND/MAR]
	V	(290–390)	37.2	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(390–488)	33.1	405	A	[1987STE/MAL]
	V	(488–543)	32.6	503	A	[1987STE/MAL]
	V	(293–390)	36.8	308	A	[1987STE/MAL, 1975AMB/ELL2, 1984BOU/FRI]
$C_6H_2F_5N$	[771-60-8]	pentafluoroaniline				
	FUS		13.85	308.1	DSC	[2007RIB/FER]
	TRS		3.94	287.4		
	FUS		14.27	306.8		[1996DOM/HEA, 1969PAU/LAV]
	SUB		63.7 ± 1.1	298	C	[2007RIB/FER]
$C_6H_2F_{12}O$	[176310-30-8]	1,1,1,2,2,3,3,-heptafluoro-3-(2,2,3,3,3-pentafluoropropoxy)propane				
	V	(288–344)	34.8	303	I	[2002MUR/YAM]
$C_6H_2F_{12}O_3$	[205367-61-9]	1,1′-oxybis[2-(difluoromethoxy)-1,1,2,2-tetrafluoroethane]				
	V	(268–283)	38.5 ± 0.8			[1999MAR/BAS]
$C_6H_2F_{12}O_3S$	[53517-89-8]	bis(1,1,1,3,3,3-hexafluoro-2-propanol) sulfite				
	V		42.4			[1975DEM/KOV]
$C_6H_2F_{12}O_4$	[249932-26-1]	1,1,3,3,5,5,7,7,8,8,10,10-dodecafluoro-12,4,6,9-tetraoxadecane				
	V	(263–381)	42.3 ± 0.4			[1999MAR/BAS]
$C_6H_2F_{14}NP$	[756-19-4]	amino bis(heptafluoropropyl)phosphine				
	V	(293–393)	38.7	343		[1959EME/SMI]
$C_6H_2N_4$	[13481-25-9]	2,3-dicyanopyrazine				
	FUS		19.8	405.1	DSC	[2006MIR/MOR]
	SUB		89.1 ± 2.7	298	C	[2006MIR/MOR]
$C_6H_2N_4O_6$	[5128-28-9]	4,6-dinitrobenzofurazan 1-oxide				
	FUS		20.73	452.7		[1983RED/MUR]
$C_6H_3BrCl_2O$	[4524-77-0]	2-bromo-4,6-dichlorophenol				
	V	(357–541)	58.6	372	A	[1987STE/MAL, 1947STU]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_3BrCl_2O$	[1940-42-7]	4-bromo-2,5-dichlorophenol				
	FUS		22.11	343.4	DSC	[1990DON/DRE]
$C_6H_3Br_3$	[615-54-3]	1,2,4-tribromobenzene				
	FUS		17.9	317	DSC	[2004KUR/MAE2]
$C_6H_3Br_3$	[626-39-1]	1,3,5-tribromobenzene				
	FUS	(7–413)	21.72	395	AC	[2005VAN/VAN]
$C_6H_3Br_3NO_2$	[3460-18-2]	2,5-dibromonitrobenzene				
	SUB	(302–322)	96.8 ± 0.4	312	ME	[2009RIB/FER8]
	SUB	(302–322)	97.0 ± 0.4	298	ME	[2009RIB/FER8]
$C_6H_3Br_3O$	[118-79-6]	2,4,6-tribromophenol				
	FUS		20.9	367.5	DSC	[2004KUR/MAE]
	FUS		18.52	366.2		[1991ACR, 1983WEA]
	SUB		97.6 ± 1.1			[1987ALL/FIN]
$C_6H_3ClN_2O_2$	[17348-69-5]	5-chlorobenzofurazan-1-oxide				
	SUB		81.2 ± 1.8	298	C	[1996ACR/BOT]
$C_6H_3ClN_2O_4$	[97-00-7]	1-chloro-2,4-dinitrobenzene				
	FUS		20.17	325.2		[1932KUB]
	V	(430–590)	80.5	445	A	[1987STE/MAL]
$C_6H_3ClN_2O_4$	[606-21-3]	2,6-dinitrochlorobenzene				
	FUS		18.95	361.2		[1932KUB]
$C_6H_3ClO_2$	[695-99-8]	chlorobenzoquinone				
	SUB	(264–289)	69.0 ± 8.3	276	QF	[1927COO/COO, 1960JON, 1970COX/PIL]
$C_6H_3Cl_2NO_2$	[3209-22-1]	2,3-dichloro-1-nitrobenzene				
	FUS		22.31	334.9	DSC	[2014YAO/YAN, 2014XU/ZHA]
	V	(422–530)	61.2	440	EB	[2014YAO/YAN]
$C_6H_3Cl_2NO_2$	[611-06-3]	2,4-dichloro-1-nitrobenzene				
	SUB		87.8 ± 1.7	298	C	[2009RIB/FER9]
$C_6H_3Cl_2NO_2$	[89-61-2]	2,5-dichloro-1-nitrobenzene				
	SUB		87.4 ± 2.4	298	C	[2009RIB/FER9]
$C_6H_3Cl_2NO_2$	[99-54-7]	3,4-dichloro-1-nitrobenzene				
	FUS		17.75	315.4	DSC	[2014YAO/YAN, 2014XU/ZHA]
	FUS		17.95	314.1	DSC	[2003VER/SCH]
	FUS		17.6	316		[1981MAS/OLE]
	SUB		85.8 ± 2.5	298	C	[2009RIB/FER9]
	SUB	(283–311)	83.1 ± 0.6	298	GS	[2003VER/SCH]
	V	(417–528)	59.2	435	EB	[2014YAO/YAN]
	V	(316–346)	65.2 ± 0.2	298	GS	[2003VER/SCH]
	V	(417–515)	55.5	432	A	[1987STE/MAL]
$C_6H_3Cl_2NO_2$	[618-62-2]	3,5-dichloro-1-nitrobenzene				
	SUB		83.2 ± 1.5	298	C	[2009RIB/FER9]
$C_6H_3Cl_3$	[120-82-1]	1,2,4-trichlorobenzene				
	FUS		17.96	290.5	DSC	[2002LIP/SCH]
	FUS		13.6	289.4		[1977FEL/PET]
	FUS		18.2	290.9		[1960MUN/KOH]
	SUB	(279–298)	62.3	289	RG	[1949SEA/HOP, 1960JON]
	V		55.8	290		[1999ROH/RUZ]
	V	(391–490)	49.5	406	EB	[1998ROH/RUZ]
	V	(413–453)	57.6	298	GC	[1994SPI/LUI]
	V		55.5 ± 0.1	298	C	[1987YAN/GU]
	V	(279–298)	47.0	288	RG	[1949SEA/HOP]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(311–486)	49.3	326		[1947STU]
$C_6H_3Cl_3$	[87-61-6]	1,2,3-trichlorobenzene				
	FUS		17.97	325.6	DSC	[2008MOG/SEP]
	FUS		20.5	326.9	DSC	[1991ACR, 1969PLA/GLA]
	FUS		17.25	322.9	DSC	[1990DON/DRE]
	FUS		18.5	325.8	DSC	[1984MIL/GHO]
	SUB	(258–313)	72.7			[1994LIU/DIC]
	SUB		75.1 ± 0.75	298		[1985YAN/GU, 1987YAN/GU]
	SUB	(289–303)	65.7	296	RG	[1949SEA/HOP, 1960JON]
	V		54.5	325		[1999ROH/RUZ]
	V	(413–453)	57.2	298	GC	[1994SPI/LUI]
	V	(258–313)	54.3		GC	[1994LIU/DIC]
	V	(293–383)	53.5	308	A	[1987STE/MAL]
	V	(313–492)	47.4	328	A	[1987STE/MAL, 1947STU]
$C_6H_3Cl_3$	[108-70-3]	1,3,5-trichlorobenzene				
	FUS		18.44	335.8	DSC	[2008MOG/SEP]
	FUS	(7–380)	17.56	335.9	AC	[2005VAN/VAN]
	FUS		18.2	336.7	DSC	[1991ACR, 1969PLA/GLA]
	FUS		18.8	336.3	DSC	[1984MIL/GHO]
	SUB		72.7 ± 0.5	298		[1985YAN/GU, 1987YAN/GU]
	SUB	(282–301)	56.5	291	RG	[1949SEA/HOP, 1960JON]
	V	(338–415)	50.3 ± 0.1	375	DM	[2001BLO/VAN]
	V		51.7	337		[1999ROH/RUZ]
	V	(413–453)	59.0	298	GC	[1994SPI/LUI]
	V	(336–482)	48.8	351	A	[1987STE/MAL, 1947STU]
$C_6H_3Cl_3O$	[95-95-4]	2,4,5-trichlorophenol				
	FUS		21.59	340.3	DSC	[1990DON/DRE]
	V	(345–525)	54.5	360	A	[1987STE/MAL, 1947STU]
$C_6H_3Cl_3O$	[88-06-2]	2,4,6-trichlorophenol				
	SUB	(299–340)	82.3 ± 0.3	298	GS	[2007FRE/OLI]
	V	(343–375)	62.5	359	GS	[2007VER/EME]
	V	(343–375)	67.2 ± 0.3	298	GS	[2007VER/EME]
	V	(344–463)	58.2	404		[1995MOK/PAU, 2007VER/EME]
	V	(344–463)	66.1 ± 0.4	298		[1995MOK/PAU, 2007VER/EME]
	V	(349–519)	58.8	364	A	[1987STE/MAL, 1947STU]
$C_6H_3Cl_3O_2$	[56961-20-7]	3,4,5-trichloro-1,2-benzenediol				
	V	(293–323)	79.3	308	CGC	[1999LEI/WAN2]
$C_6H_3Cl_3O_2$	[608-94-6]	trichlorohydroquinone				
	SUB	(298–336)	101.5	313	A	[1987STE/MAL]
	SUB	(314–335)	101.3	324	QF	[1927COO/COO, 1960JON]
$C_6H_3Cl_4N$	[3481-20-7]	2,3,5,6-tetrachloroaniline				
	SUB		86.0 ± 2.0	298	C	[2007RIB/AMA3]
$C_6H_3Cl_4N$	[69045-78-9]	2-chloro-5-(trichloromethyl)pyridine				
	FUS	(80–345)	14.5	324.7	AC	[2004KON/TAN]
$C_6H_3Cl_4N$	[1929-82-4]	2-chloro-6-(trichloromethyl)pyridine				
	FUS	(13–316)	20.3	337.8	AC	[1996DOM/HEA, 1987TAN/YE, 1989TAN/SOR]
$C_6H_3F_2NO_2$	[446-35-5]	2,4-difluoronitrobenzene				
	FUS		13.1	282.6	DSC	[2010RIB/MON2]
	SUB	(260–275)	73.6 ± 0.2	267	Static	[2010RIB/MON2]
	SUB	(260–275)	72.8 ± 0.2	298	Static	[2010RIB/MON2]
	V	(262–355)	57.5 ± 0.1	308	Static	[2010RIB/MON2]
	V	(262–355)	58.5 ± 0.1	298	Static	[2010RIB/MON2]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_3F_2NO_2$	[364-74-9]	2,5-difluoronitrobenzene				
	V	(262–353)	57.8 ± 0.1	308	Static	[2010RIB/MON2]
	V	(262–353)	58.7 ± 0.1	298	Static	[2010RIB/MON2]
$C_6H_3F_2NO_2$	[369-34-6]	3,4-difluoronitrobenzene				
	FUS		16.4	268.0	DSC	[2010RIB/MON2]
	SUB	(256–265)	74.8 ± 0.2	260	Static	[2010RIB/MON2]
	SUB	(256–265)	73.8 ± 0.4	298	Static	[2010RIB/MON2]
	V	(259–345)	55.2 ± 0.1	302	Static	[2010RIB/MON2]
	V	(259–345)	55.5 ± 0.1	298	Static	[2010RIB/MON2]
$C_6H_3F_3$	[372-38-3]	1,3,5-trifluorobenzene				
	V	(280–320)	33.9	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(279–350)	34.5	294	A, MM	[1987STE/MAL, 1969FIN, 1972DYK]
$C_6H_3F_4N$	[5580-80-3]	2,3,4,5-tetrafluoroaniline				
	FUS		19.01	301.0	DSC	[2007RIB/FER]
	SUB		74.3 ± 1.3	298	C	[2007RIB/FER]
$C_6H_3F_4N$	[363-73-5]	2,3,4,6-tetrafluoroaniline				
	V		50.4 ± 0.6	298	C	[2007RIB/FER]
$C_6H_3F_4N$	[700-17-4]	2,3,5,6-tetrafluoroaniline				
	FUS		8.19	305.4	DSC	[2007RIB/FER]
	SUB		62.5 ± 1.1	298	C	[2007RIB/FER]
$C_6H_3F_9O_2$	[42031-16-3]	trifluoroacetic acid, 2,2,2-trifluoro-1-methyl-1-(trifluoromethyl)ethyl ester				
	V		33.5	338	HG	[1973MAJ/SHR]
$C_6H_3F_9O_2$	[24165-09-1]	acetic acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl ester				
	V	(273–328)	40.1	288	A	[1987STE/MAL, 1975WAL/DES2]
$C_6H_3F_{10}NS$	[54120-08-0]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]ethanimidothioic acid, methyl ester				
	V		31.6	383		[1975PET/SHR]
$C_6H_3F_{11}O$	[176310-29-5]	1,1,1,2,2,3,3-heptafluoro-3-(2,2,3,3-tetrafluoropropoxy)propane				
	V	(288–357)	37.2	303	I	[2002MUR/YAM]
$C_6H_3F_{11}O$	[181214-74-4]	1,1,1,2,2,3,3,4,4,5,5-undecafluoro-5-methoxypentane				
	V	(288–358)	36.6	303	I	[2002MUR/YAM]
$C_6H_3F_{11}O$	[203783-56-6]	1,1,1,2,3,3,4,4-octafluoro-4-methoxy-2-(trifluoromethyl)butane				
	V	(288–357)	36		I	[2002MUR/YAM]
$C_6H_3F_{11}O$	[290-28-8]	1,1,1,2,3,3-hexafluoro-3-(2,2,3,3,3-pentafluoropropoxy)propane				
	V	(293–360)	38.4	308	I	[2002MUR/YAM]
$C_6H_3N_3O_2S$	[6583-06-8]	4-nitro-2,1,3-benzothiadiazole				
	FUS		22.6	381.4	DSC	[2012RIB/FRE]
	SUB		101.8 ± 4.3	298	C	[2012RIB/FRE]
$C_6H_3N_3O_4$	[18771-85-2]	4-nitrobenzofurazan-1-oxide				
	SUB		97.3 ± 1.6	298	C	[1996ACR/BOT]
$C_6H_3N_3O_6$	[603-13-4]	1,2,3-trinitrobenzene				
	V	(523–573)	60.3	538	A	[1987STE/MAL, 1968MAK, 1972DYK]
$C_6H_3N_3O_6$	[610-31-1]	1,2,4-trinitrobenzene				
	V	(523–573)	82.6	538	A	[1987STE/MAL, 1968MAK, 1972DYK]
$C_6H_3N_3O_6$	[99-35-4]	1,3,5-trinitrobenzene				
	TRS (I)		1.9	370		
	FUS (I)		14.81	380.3		
	FUS (II)		15.0	398.4	DSC	[1996DOM/HEA, 1980RAD/RAD]
	FUS		22.6	388.5	DSC	[1975CAS/VEC]

Note: Authors of [1975CAS/VEC] give a melting point temperature of 12.1 °C, which is unrealistic. The value of 388.5 was calculated from the published enthalpy and entropy of fusion given in the paper.

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(313–395)	107.3 ± 0.6	298	ME	[1978CUN/PAL]
	SUB		99.6 ± 2.1			[1950NIT/SEK, 1970COX/PIL]
	V	(475–585)	70.3	490	A	[1987STE/MAL, 1968MAK, 1972DYK]
$C_6H_3N_3O_7$	[88-89-1]	2,4,6-trinitrophenol (picric acid)				
	FUS		17.2	394.4	DSC	[2015SIN/SIN3]
	FUS		17.1	394.1	DSC	[1996DOM/HEA, 1979FAR/SHA]
	SUB		106.3		DSC	[1990HWA/YOS]
	SUB	(314–406)	105.1 ± 1.6	298	ME	[1978CUN/PAL]
	V		87.9		DSC	[1990HWA/YOS]
	V	(468–598)	106.4	483	A	[1987STE/MAL]
Note: The value of 106.4 kJ/mole from [1987STE/MAL] is likely an enthalpy of sublimation						
$C_6H_3N_3O_8$	[82-71-3]	2,4,6-trinitroresorcinol (styphnic acid)				
	FUS		33.5	454.8	DSC	[1996DOM/HEA, 1979FAR/SHA]
	SUB		120.1		DSC	[1990HWA/YOS]
	SUB	(325–436)	120.8 ± 1.1	298	ME	[1978CUN/PAL]
	V		92.9		DSC	[1990HWA/YOS]
C_6H_4BrCl	[694-80-4]	1-bromo-2-chlorobenzene				
	FUS		12.37	260.6		[1996DOM/HEA, 1918NAR]
	V	(281–323)	51.8 ± 0.2	302	GS	[2014VER/EME2]
	V	(281–323)	52.0 ± 0.3	298	GS	[2014VER/EME2]
C_6H_4BrCl	[108-37-2]	1-bromo-3-chlorobenzene				
	FUS		12.29	252		[1996DOM/HEA, 1918NAR]
	V	(278–320)	51.2 ± 0.3	299	GS	[2014VER/EME2]
	V	(278–320)	51.0 ± 0.4	298	GS	[2014VER/EME2]
	V	(252–469)	52.2	267	A	[1987STE/MAL, 1972DYK]
C_6H_4BrCl	[106-39-8]	1-bromo-4-chlorobenzene				
	FUS		19.9	338.0	DSC	[2012SHA/RAI]
	FUS	(6–350)	18.4	338.0	AC	[2000TOZ/AKU]
	FUS		18.76	337.8		[1996DOM/HEA, 1918NAR]
	SUB	(280–333)	67.9 ± 0.3	307	GS	[2014VER/EME2]
	SUB	(280–333)	68.1 ± 0.4	298	GS	[2014VER/EME2]
	SUB		69.34 ± 0.11	298	DM	[2000OON/VAN]
	SUB	(250–335)	69.3 ± 0.4	298	TE, ME, DM	[1998OON/VAN]
	SUB		69.1 ± 0.2	298		[1998OON/VAN]
	SUB	(294–337)	67.9 ± 0.8	316		[1961WAL/SMI]
	V	(339–366)	48.6 ± 0.4	352	GS	[2014VER/EME2]
	V	(339–366)	52.3 ± 0.6	298	GS	[2014VER/EME2]
	V	(333–470)	49.1	348	A	[1987STE/MAL]
	V	(305–470)	49.7	320		[1947STU]
C_6H_4BrF	[1072-85-1]	2-bromo-1-fluorobenzene				
	V	(279–324)	47.0 ± 0.3	298	GS	[2015VER/EME]
C_6H_4BrF	[1073-06-9]	3-bromo-1-fluorobenzene				
	V	(281–317)	44.3 ± 0.3	298	GS	[2015VER/EME]
C_6H_4BrF	[460-00-4]	4-bromo-1-fluorobenzene				
	V	(278–316)	44.0 ± 0.4	298	GS	[2015VER/EME]
C_6H_4BrI	[583-55-1]	1-bromo-2-iodobenzene				
	FUS		14.42	294.2		[1991ACR, 1983WEA]
	V	(283–328)	59.1 ± 0.2	306	GS	[2014VER/EME2]
	V	(283–328)	59.6 ± 0.3	298	GS	[2014VER/EME2]
C_6H_4BrI	[591-18-4]	1-bromo-3-iodobenzene				
	FUS		12.16	282.5		[1991ACR, 1983WEA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(279–323)	60.7 ± 0.2	301	GS	[2014VER/EME2]
	V	(279–323)	60.8 ± 0.3	298	GS	[2014VER/EME2]
C_6H_4BrI	[589-87-7]	1,4-bromoiodobenzene				
	FUS	(5–420)	19.38	363.5		[2001VAN/OON]
	FUS		19.13	363.3		[1991ACR, 1983WEA]
	SUB	(299–359)	75.8 ± 0.2	329	GS	[2014VER/EME2]
	SUB	(299–359)	76.7 ± 0.3	298	GS	[2014VER/EME2]
	SUB		78.53 ± 0.16	298	DM	[2000OON/VAN]
	SUB	(279–355)	78.5 ± 0.4	298	ME, TE, DM	[1998OON/VAN]
	V	(367–392)	53.9 ± 0.2	379	GS	[2014VER/EME2]
	V	(367–392)	59.8 ± 0.7	298	GS	[2014VER/EME2]
$C_6H_4BrNO_2$	[577-19-5]	2-bromo-1-nitrobenzene				
	SUB	(275–295)	85.5 ± 0.3	285	ME	[2010RIB/FER4]
	SUB	(275–295)	85.2 ± 0.3	298	ME	[2010RIB/FER4]
$C_6H_4BrNO_2$	[585-79-5]	3-bromo-1-nitrobenzene				
	SUB	(280–295)	87.0 ± 0.5	287	ME	[2010RIB/FER4]
	SUB	(280–295)	86.8 ± 0.5	298	ME	[2010RIB/FER4]
$C_6H_4BrNO_2$	[586-78-7]	4-bromo-1-nitrobenzene				
	SUB	(289–309)	86.6 ± 0.6	299	ME	[2010RIB/FER4]
	SUB	(289–309)	86.6 ± 0.6	298	ME	[2010RIB/FER4]
	SUB	(293–303)	88.3	303	ME	[1987STE/MAL, 1925SWA/MAC]
$C_6H_4Br_2$	[583-53-9]	1,2-dibromobenzene				
	FUS		12.61	275		[1991ACR, 1983WEA]
	V	(290–328)	54.3 ± 0.3	298	GS	[2015SOL/VAR]
	V	(388–568)	50.1	403	A	[1987STE/MAL, 1972DYK]
$C_6H_4Br_2$	[108-36-1]	1,3-dibromobenzene				
	FUS		13.21	266.3		[1991ACR, 1983WEA]
	V	(276–318)	54.9 ± 0.2	298	GS	[2015SOL/VAR]
	V	(417–500)	48.3	432	A	[1987STE/MAL]
$C_6H_4Br_2$	[106-37-6]	1,4-dibromobenzene				
	FUS	(5–380)	20.39	360.5	AC	[2005VAN/VAN]
	FUS		18.6	357.7	DSC	[2004KUR/MAE2]
	FUS		20.3	259.2		[1991ACR, 1983WEA]
	SUB	(297–329)	73.7 ± 0.6	298	GS	[2015SOL/VAR]
	SUB		74.23 ± 0.11	298	ME	[2000OON/VAN]
	SUB	(298–354)	73.2	313	A	[1987STE/MAL]
	SUB	(278–353)	73.3 ± 0.4	326		[1961WAL/SMI]
	SUB	(228–347)	73.8	288		[1959STE/GRE]
	SUB	(248–303)	59.8	298	ME, GS	[1940ZIL, 1960JON]
	V	(373–493)	49.9	388	A	[1987STE/MAL, 1972DYK]
$C_6H_4Br_2O$	[615-58-7]	2,4-dibromophenol				
	FUS		14.7	310	DSC	[2004KUR/MAE]
	FUS		14.72	313		[1991ACR, 1983WEA]
	FUS		15.0	313		[1996DOM/HEA, 1884WER]
	SUB		81.3 ± 1.5	298	C	[2011FER/RIB]
$C_6H_4Br_2O$	[608-33-3]	2,6-dibromophenol				
	SUB		83.4 ± 1.5	298	C	[2011FER/RIB]
$C_6H_4Br_2O$	[626-41-5]	3,5-dibromophenol				
	SUB	(299–317)	94.9 ± 0.6	308	ME	[2011FER/RIB]
	SUB		94.3 ± 1.8	298	C	[2011FER/RIB]
$C_6H_4Br_3N$	[147-82-0]	2,4,6-tribromoaniline				
	FUS		25.75	393	DSC	[2006RIB/FER]
	SUB		96.7 ± 1.7	298	C	[2006RIB/FER]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		101.1 ± 1.1			[1987ALL/FIN]
C_6H_4ClF	[348-51-6]	1-chloro-2-fluorobenzene				
	V	(278–319)	44.0 ± 0.3	298	GS	[2015VER/EME]
C_6H_4ClF	[625-98-9]	1-chloro-3-fluorobenzene				
	V	(276–319)	43.0 ± 0.3	298	GS	[2015VER/EME]
	V	(273–403)	37.4	288	A	[1987STE/MAL]
C_6H_4ClF	[352-33-0]	1-chloro-4-fluorobenzene				
	FUS		13.9	245		[2004CER/PER]
	V	(278–323)	42.8 ± 0.3	298	GS	[2015VER/EME]
C_6H_4ClI	[615-41-8]	1-chloro-2-iodobenzene				
	V	(293–345)	55.9 ± 0.2	319	GS	[2014VER/EME2]
	V	(293–345)	57.3 ± 0.3	298	GS	[2014VER/EME2]
C_6H_4ClI	[637-87-6]	1-chloro-4-iodobenzene				
	FUS	(5–360)	16.1	326.7		[2000VAN/OON]
	SUB		71.86 ± 0.21	298	DM	[2000OON/VAN]
	SUB	(259–320)	71.9 ± 0.4	298	ME, TE, DM	[1998OON/VAN]
	SUB	(303–323)	61.1 ± 0.6			[1953EWA, 1960JON]
	V	(333–500)	56.5	348	A	[1987STE/MAL]
$C_6H_4ClNO_2$	[88-73-3]	1-chloro-2-nitrobenzene				
	FUS		18.11	305.8	DSC	[2007STR/RUZ]
	FUS		18.21	305.8	DSC	[2003VER/SCH]
	FUS		19.08	308.2		[1981MAS/OLE]
	SUB		80.9 ± 1.5	298	C	[2009RIB/FER7]
	SUB	(278–305)	80.8 ± 0.3	298	GS	[2003VER/SCH]
	V	(307–334)	60.4 ± 0.3	298	GS	[2003VER/SCH]
	V	(420–516)	52.1	435	EB	[1984PUT/IVA]
$C_6H_4ClNO_2$	[121-73-3]	1-chloro-3-nitrobenzene				
	FUS		19.52	316.9	DSC	[2007STR/RUZ]
	FUS		18.65	318	DSC	[2003VER/SCH]
	FUS		19.37	317.6		[1991ACR, 1983WEA]
	FUS		21.3	316.9		[1908BOG/WIN, 1925KOH]
	FUS		19.3			[1894BRU, 1925KOH]
	SUB		82.5 ± 1.5	298	C	[2009RIB/FER7]
	SUB	(281–314)	81.3 ± 0.3	298	GS	[2003VER/SCH]
	SUB	(275–286)	74.7 ± 1.7			[1935TRI, 1938WOL/WEG]
	V	(319–364)	60.2 ± 0.2	298	GS	[2003VER/SCH]
	V	(414–506)	51.5	429	EB	[1984PUT/IVA]
$C_6H_4ClNO_2$	[100-00-5]	1-chloro-4-nitrobenzene				
	FUS		14.48	359.2	DSC	[2011SIN/RAI]
	FUS		16.37	356.2	DSC	[2008MOG/SEP]
	FUS		15.03	355.1	DSC	[2007STR/RUZ]
	FUS		16.17	356.1	DSC	[2003VER/SCH]
	FUS		18.5	359.2	DSC	[1998RAI/RAI2]
	FUS		11.85	354.6		[1996DOM/HEA, 1978MAR/CIO2]
	FUS		14.1	357		[1981MAS/OLE]
	FUS		14.1			[1894BRU, 1925KOH]
	SUB	(303–339)	74.7 ± 0.1	298	GS	[2003VER/SCH]
	SUB	(283–303)	83.2	293	ME	[1987STE/MAL, 1925SWA/MAC]
	V	(385–515)	51.3	400	A	[1987STE/MAL]
$C_6H_4ClNO_3$	[619-08-9]	2-chloro-4-nitrophenol				
	FUS		20.88	380.7	DSC	[2007MOR/MIR]
	SUB		99.0 ± 2.1	298	C	[2007MOR/MIR]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_4ClNO_3$	[89-64-5]	4-chloro-2-nitrophenol				
	FUS		22.69	360.3	DSC	[2007MOR/MIR]
	SUB		87.6 ± 0.9	298	C	[2007MOR/MIR]
$C_6H_4ClNO_3$	[610-78-6]	4-chloro-3-nitrophenol				
	FUS		25.97	399.4	DSC	[2007MOR/MIR]
	SUB		111.0 ± 3.3	298	C	[2007MOR/MIR]
$C_6H_4ClNO_3$	[54127-63-8]	5-chloro-6-hydroxynicotinic acid				
	SUB	(457–487)	149.1 ± 2.6	472	DSC	[2009SAN/FIG]
	SUB	(457–487)	151.3 ± 2.8	298	DSC	[2009SAN/FIG]
$C_6H_4ClN_3O_4$	[3531-19-9]	2-chloro-4,6-dinitroaniline				
	SUB	(358–380)	114.2 ± 0.5	369	ME	[2010RIB/RIB]
	SUB	(358–380)	115.0 ± 0.9	298	ME	[2010RIB/RIB]
$C_6H_4ClN_3O_4$	[5388-62-5]	4-chloro-2,6-dinitroaniline				
	SUB	(335–359)	104.7 ± 0.4	347	ME	[2010RIB/RIB]
	SUB	(335–359)	105.2 ± 0.7	298	ME	[2010RIB/RIB]
$C_6H_4ClN_3O_4$	[3531-19-9]	2-chloro-4,6-dinitroaniline				
	FUS (I)		21.1	433.2		
	FUS (II)		24.2	435.2	DSC	[2014KRI/RAJ]
$C_6H_4Cl_2$	[95-50-1]	1,2-dichlorobenzene				
	FUS		13.09	255.9	DSC	[2010WEI/WAN]
	FUS		12.4	255.9	DSC	[2009WEI/JIN, 2008WEI]
	FUS		12.93	256.5		[1991ACR, 1983WEA, 1990DON/DRE]
	V		51.2	256		[1999ROH/RUZ]
	V	(363–454)	44.5	376	EB	[1998ROH/RUZ]
	V	(256–287)	50.8	271		[1996POL/GUE]
	V	(413–453)	50.9	298	GC	[1994SPI/LUI]
	V	(258–313)	51.2		GC	[1994LIU/DIC]
	V		48.5 ± 0.1	298	C	[1989AN/ZHE, 1989AN/ZHE2]
	V	(373–453)	44.0	388	A	[1987STE/MAL]
	V	(360–450)	49.9	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(301–343)	50.0	322	GS	[1982GRA/FOS]
$C_6H_4Cl_2$	[541-73-1]	1,3-dichlorobenzene				
	FUS		12.51	248.3	DSC	[2010WEI/WAN]
	FUS		12.60	248.3	DSC	[2009WEI/JIN, 2008WEI]
	FUS		12.64	248.4		[1991ACR, 1983WEA]
	V		50.4	248		[1999ROH/RUZ]
	V	(357–448)	44.1	372	EB	[1998ROH/RUZ]
	V	(250–274)	50.0	262		[1996POL/GUE]
	V	(413–453)	53.9	298	GC	[1994SPI/LUI]
	V	(360–450)	47.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(348–513)	44.7	363	A	[1987STE/MAL, 1972DYK]
$C_6H_4Cl_2$	[106-46-7]	1,4-dichlorobenzene				
	FUS		18.08	326.2	DSC	[2010WEI/WAN]
	FUS		18.19	326.2	DSC	[2009WEI/JIN, 2008WEI]
	TRS	(5–380)	1.24	275		
	TRS	(5–380)	0.18	306		
	FUS	(5–380)	17.91	326.2	AC	[2005VAN/VAN]
	TRS	(20–330)	1.26	271.8		
	TRS	(20–330)	0.21	304.4		
	FUS	(20–330)	18.19	326.2	AC	[1976DWO/FIG]
	FUS		18.2		DSC	[1972WAU/GET]
	FUS		17.15	325.9	DSC	[1991ACR, 1983WEA, 1969PLA/GLA]
	FUS		19.0	326.7	DSC	[1984MIL/GHO]
	FUS		18.14	326.1		[1918NAR]
	SUB		64.75 ± 0.15	298	DM	[2000OON/VAN]
	SUB	(258–313)	53.1			[1994LIU/DIC]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		65.2 ± 2.0	298	C	[1989AN/ZHE, 1989AN/ZHE2]
	SUB	(303–423)	65.4	313	GS	[1985ROR]
	SUB		65.7			[1981DEK/VAN]
	SUB	(293–311)	64.8 ± 0.8	303		[1961WAL/SMI, 1970COX/PIL]
	SUB	(311–325)	63 ± 0.4	318		[1961WAL/SMI]
	SUB	(248–303)	56.9	275	ME	[1940DAR/VER, 1960JON]
	V		46.4	326		[1999ROH/RUZ]
	V	(358–448)	44.2	373	EB	[1998ROH/RUZ]
	V	(413–453)	54.8	298	GC	[1994SPI/LUI]
	V	(258–313)	U35.0		GC	[1994LIU/DIC]
	V	(341–448)	45.0	356	A	[1987STE/MAL]
	V	(370–450)	47.8	298		[1984BOU/FRI, 1991BAS/SVO]
$C_6H_4Cl_2N_2O_2$	[6627-34-5]	2,5-dichloro-4-nitrobenzenamine				
	SUB	(352–374)	113.2 ± 0.6	363	ME	[2009RIB/RIB]
	SUB	(352–374)	114.3 ± 0.9	298	ME	[2009RIB/RIB]
$C_6H_4Cl_2N_2O_2$	[99-30-9]	2,6-dichloro-4-nitroaniline				
	FUS		29.48	467.2	DSC	[1991ACR, 1990DON/DRE]
	SUB	(344–366)	108.2 ± 0.6	355	ME	[2009RIB/RIB]
	SUB	(344–366)	109.2 ± 0.9	298	ME	[2009RIB/RIB]
$C_6H_4Cl_2N_2O_2$	[6641-64-1]	4,5-dichloro-2-nitroaniline				
	SUB	(351–367)	108.4 ± 0.7	359	ME	[2009RIB/RIB2]
	SUB	(351–367)	109.4 ± 0.9	298	ME	[2009RIB/RIB2]
$C_6H_4Cl_2O$	[576-24-9]	2,3-dichlorophenol				
	FUS		21.36	330	DSC	[1991ACR, 1982POE/FAN]
	SUB	(294–327)	76.9 ± 0.4	298	GS	[2007VER/EME]
	SUB		71.7 ± 2.2	298	C	[1994RIB/FER2]
	V	(331–358)	57.3 ± 0.2	298	GS	[2007VER/EME]
$C_6H_4Cl_2O$	[120-83-2]	2,4-dichlorophenol				
	FUS		20.09	318	DSC	[1996DOM/HEA, 1991ACR, 1982POE/FAN]
	SUB	(278–315)	78.0 ± 0.3	298	GS	[2007VER/EME]
	SUB		70.1 ± 1.1	298	C	[1994RIB/FER2]
	V	(317–344)	56.6	331	GS	[2007VER/EME]
	V	(317–344)	59.0 ± 0.4	298	GS	[2007VER/EME]
	V	(323–443)	52.3	383		[1995MOK/PAU, 2007VER/EME]
	V	(323–443)	58.1 ± 0.3	298		[1995MOK/PAU, 2007VER/EME]
	V	(326–483)	60.8	341	A	[1987STE/MAL, 1947STU, 1975ARR/MEL]
$C_6H_4Cl_2O$	[583-78-8]	2,5-dichlorophenol				
	FUS		22.43	331	DSC	[1996DOM/HEA, 1991ACR, 1982POE/FAN]
	SUB	(294–327)	77.3 ± 0.1	298	GS	[2007VER/EME]
	SUB		73.6 ± 2.1	298	C	[1994RIB/FER2]
	V	(333–361)	53.1	347	GS	[2007VER/EME]
	V	(333–361)	56.7 ± 0.1	298	GS	[2007VER/EME]
$C_6H_4Cl_2O$	[87-65-0]	2,6-dichlorophenol				
	FUS		22.14	340	DSC	[1996DOM/HEA, 1991ACR, 1982POE/FAN]
	SUB	(299–331)	79.3 ± 0.2	298	GS	[2007VER/EME]
	SUB		75.8 ± 1.1	298	C	[1994RIB/FER2]
	V	(341–371)	55.4	356	GS	[2007VER/EME]
	V	(341–371)	59.6 ± 0.3	298	GS	[2007VER/EME]
	V	(343–457)	51.6	400		[1995MOK/PAU, 2007VER/EME]
	V	(343–457)	58.5 ± 0.5	298		[1995MOK/PAU, 2007VER/EME]
	V	(333–493)	57.9	348	A	[1987STE/MAL, 1947STU]
$C_6H_4Cl_2O$	[95-77-2]	3,4-dichlorophenol				
	FUS		20.93	341	DSC	[1996DOM/HEA, 1991ACR, 1982POE/FAN]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(291–337)	89.8 ± 0.4	298	GS	[2007VER/EME]
	SUB		81.3 ± 2.3	298	C	[1994RIB/FER2]
	V	(341–368)	66.7	355	GS	[2007VER/EME]
	V	(341–368)	70.8 ± 0.2	298	GS	[2007VER/EME]
$C_6H_4Cl_2O$	[591-35-5]	3,5-dichlorophenol				
	FUS		20.51	341	DSC	[1996DOM/HEA, 1991ACR, 1982POE/FAN]
	SUB		82.8 ± 1.1	298	C	[1994RIB/FER2]
	SUB	(273–295)	71.8	284	A	[1987STE/MAL]
$C_6H_4Cl_2O_2$	[3428-24-8]	4,5-dichloro-1,2-benzenediol				
	V	(293–323)	70.5	308	CGC	[1999LEI/WAN2]
$C_6H_4Cl_2O_2$	[20103-10-0]	2,6-dichlorohydroquinone				
	SUB	(324–345)	92.0 ± 8.3		QF	[1927COO/COO, 1960JON, 1970COX/PIL]
$C_6H_4Cl_2O_3$	[247097-56-9]	vinyl mucochlorate				
	V	(273–333)	63.9	288	A	[1987STE/MAL, 1948RED/CHA5]
$C_6H_4Cl_3N$	[634-67-3]	2,3,4-trichloroaniline				
	SUB		92.4 ± 1.7	298	C	[2002RIB/AMA]
$C_6H_4Cl_3N$	[636-30-6]	2,4,5-trichloroaniline				
	SUB		86.3 ± 2.5	298	C	[2002RIB/AMA]
$C_6H_4Cl_3N$	[634-93-5]	2,4,6-trichloroaniline				
	SUB		85.3 ± 1.9	298	C	[2002RIB/AMA]
	V	(407–535)	92.9	422	A	[1987STE/MAL, 1947STU]
Note: Enthalpy of vaporization is likely in error						
$C_6H_4Cl_3N$	[634-91-3]	3,4,5-trichloroaniline				
	SUB		92.9 ± 3.3	298	C	[2002RIB/AMA]
$C_6H_4Cl_3NO$	[35302-72-8]	2-trichloroacetylpyrrole				
	SUB	(295–317)	90.0 ± 0.3	306	ME	[2010SAN/RIB3]
	SUB	(295–317)	90.4 ± 0.3	298	ME	[2010SAN/RIB3]
C_6H_4FI	[348-52-7]	2-iodo-1-fluorobenzene				
	V	(283–328)	51.5 ± 0.3	298	GS	[2015VER/EME]
C_6H_4FI	[1121-86-4]	3-iodo-1-fluorobenzene				
	V	(275–319)	48.6 ± 0.3	298	GS	[2015VER/EME]
C_6H_4FI	[352-34-1]	4-iodo-1-fluorobenzene				
	V	(277–318)	49.5 ± 0.3	298	GS	[2015VER/EME]
$C_6H_4FNO_2$	[1493-27-2]	2-fluoronitrobenzene				
	SUB	(257–261)	79.3 ± 0.8	259	Static	[2010RIB/MON]
	SUB	(257–261)	78.4 ± 0.8	298	Static	[2010RIB/MON]
	V	(267–359)	57.9 ± 0.1	313	Static	[2010RIB/MON]
	V	(267–359)	59.5 ± 0.1	298	Static	[2010RIB/MON]
$C_6H_4FNO_2$	[402-67-5]	3-fluoronitrobenzene				
	SUB	(255–273)	73.1 ± 0.3	264	Static	[2010RIB/MON]
	SUB	(255–273)	72.3 ± 0.3	298	Static	[2010RIB/MON]
	V	(259–346)	54.4 ± 0.1	302	Static	[2010RIB/MON]
	V	(259–346)	54.8 ± 0.1	298	Static	[2010RIB/MON]
$C_6H_4FNO_2$	[350-46-9]	4-fluoronitrobenzene				
	SUB	(259–291)	71.5 ± 0.3	275	Static	[2010RIB/MON]
	SUB	(259–291)	70.9 ± 0.3	298	Static	[2010RIB/MON]
	V	(272–349)	55.1 ± 0.1	311	Static	[2010RIB/MON]
	V	(272–349)	56.0 ± 0.1	298	Static	[2010RIB/MON]
$C_6H_4F_2$	[367-11-3]	1,2-difluorobenzene				
	FUS		11.05	226.0		[1996DOM/HEA, 1963SCO/MES]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(300–400)	36.2	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(304–403)	35.5	319	EB	[1963SCO/MES, 1984BOU/FRI]
	V		34.6 ± 0.1	327	C	[1963SCO/MES]
	V		33.5 ± 0.1	345	C	[1963SCO/MES]
	V		32.2 ± 0.1	367	C	[1963SCO/MES]
$C_6H_4F_2$	[372-18-9]	1,3-difluorobenzene				
	TRS		0.83	187.8		
	FUS		8.60	204.1	DTA	[1994TAN/SAB3]
	TRS		0.83	186.8		
	FUS		8.58	204		[1996DOM/HEA, 1970MES/FIN]
	V	(310–400)	34.6	298		[1980OSB/SCO, 1991BAS/SVO]
$C_6H_4F_2$	[540-36-3]	1,4-difluorobenzene				
	V	(300–400)	35.8	298		[1980OSB/SCO, 1991BAS/SVO]
$C_6H_4F_2O$	[6418-38-8]	2,3-difluorophenol				
	SUB		68.2 ± 1.5	298	C	[2010RIB/FER2]
$C_6H_4F_2O$	[367-27-1]	2,4-difluorophenol				
	V		58.8 ± 0.9	298	C	[2010RIB/FER2]
$C_6H_4F_2O$	[2713-31-7]	2,5-difluorophenol				
	SUB		68.0 ± 1.4	298	C	[2010RIB/FER2]
$C_6H_4F_2O$	[28177-48-2]	2,6-difluorophenol				
	SUB		77.8 ± 2.0	298	C	[2010RIB/FER2]
$C_6H_4F_2O$	[2713-33-9]	3,4-difluorophenol				
	SUB		72.9 ± 1.5	298	C	[2010RIB/FER2]
$C_6H_4F_2O$	[2713-34-0]	3,5-difluorophenol				
	SUB		72.8 ± 1.5	298	C	[2010RIB/FER2]
$C_6H_4F_3N$	[3862-73-5]	2,3,4-trifluoroaniline				
	V		53.7 ± 0.5	298	C	[2007RIB/FER]
$C_6H_4F_3N$	[67815-56-9]	2,3,6-trifluoroaniline				
	V		50.1 ± 0.5	298	C	[2007RIB/FER]
$C_6H_4F_3N$	[367-34-0]	2,4,5-trifluoroaniline				
	FUS		23.11	332.5	DSC	[2007RIB/FER]
	SUB		73.7 ± 1.2	298	C	[2007RIB/FER]
$C_6H_4F_3N$	[363-81-5]	2,4,6-trifluoroaniline				
	FUS		16.91	307.5	DSC	[2007RIB/FER]
	SUB		66.0 ± 1.2	298	C	[2007RIB/FER]
$C_6H_4F_3N$	[163733-96-8]	3,4,5-trifluoroaniline				
	FUS		17.87	335.6	DSC	[2007RIB/FER]
	SUB		74.6 ± 1.3	298	DSC	[2007RIB/FER]
$C_6H_4F_3NO$	[2557-70-2]	2-trifluoroactylpyrrole				
	SUB	(263–271)	74.3 ± 1.1	267	ME	[2010SAN/RIB3]
	SUB	(263–271)	72.8 ± 1.1	298	ME	[2010SAN/RIB3]
$C_6H_4F_{10}O$	[65064-78-0]	1,1,1,2,3,3-hexafluoro-3-(2,2,3,3-tetrafluoropropoxy)propane				
	V	(293–379)	42.3	308	I	[2002MUR/YAM]
	V		43.2 ± 0.2	298	C	[1981VAR/BUL2]
$C_6H_4INO_2$	[609-73-4]	2-iodo-1-nitrobenzene				
	SUB	(287–307)	90.6 ± 0.5	297	ME	[2013FER/RIB]
	SUB	(287–307)	90.6 ± 0.5	298	ME	[2013FER/RIB]
	SUB		89.9 ± 1.6	298	C	[2013FER/RIB]
	V	(433–563)	59.9	448	A	[1987STE/MAL]
$C_6H_4INO_2$	[645-00-1]	3-iodo-1-nitrobenzene				
	SUB	(287–303)	88.9 ± 0.5	295	ME	[2013FER/RIB]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(287–303)	88.8 ± 0.5	298	ME	[2013FER/RIB]
	SUB		89.4 ± 1.5	298	C	[2013FER/RIB]
	SUB	(295–306)	83.2 ± 1.2	300		[1935TRI, 1938WOL/WEG, 1960JON]
$C_6H_4INO_2$	[636-98-6]	4-iodo-1-nitrobenzene				
	SUB	(311–333)	93.9 ± 0.5	322	ME	[2013FER/RIB]
	SUB	(311–333)	94.6 ± 0.6	298	ME	[2013FER/RIB]
	SUB		98.2 ± 1.7	298	C	[2013FER/RIB]
$C_6H_4I_2$	[615-42-9]	1,2-diiodobenzene				
	FUS		14.01	296.6		[1991ACR, 1983WEA]
	V	(299–348)	63.8 ± 0.4	323	GS	[2014VER/EME2]
	V	(299–348)	65.6 ± 0.5	298	GS	[2014VER/EME2]
$C_6H_4I_2$	[626-00-6]	1,3-diiodobenzene				
	FUS		15.93	307.4		[1991ACR, 1983WEA]
	SUB	(279–303)	82.9 ± 0.5	291	GS	[2014VER/EME2]
	SUB	(279–303)	82.6 ± 0.6	298	GS	[2014VER/EME2]
	V	(312–351)	63.7 ± 0.3	331	GS	[2014VER/EME2]
	V	(312–351)	66.1 ± 0.4	298	GS	[2014VER/EME2]
$C_6H_4I_2$	[624-38-4]	1,4-diiodobenzene				
	FUS		24.1	405.2	DSC	[2010KAN/RED]
	TRS		0.22	320		
	FUS	(5–420)	22.3	402.4		[2001VAN/OON]
	FUS		22.37	402		[1991ACR, 1983WEA]
	SUB	(298–347)	84.4 ± 0.3	322	GS	[2014VER/EME2]
	SUB	(298–347)	85.4 ± 0.4	298	GS	[2014VER/EME2]
	SUB	(372–401)	63.4	386.5	A	[1987STE/MAL]
	V	(402–560)	52.6	417	A	[1987STE/MAL]
$C_6H_4N_2$	[100-54-9]	nicotinic acid nitrile				
	V	(453–479)	45.0	466	A	[1987STE/MAL, 1972DYK]
$C_6H_4N_2$	[100-70-9]	2-cyanopyridine				
	SUB	(233–323)	76.6	298	ME	[1991AUE/WEB]
Note: Authors of [1991AUE/WEB] refer to the value as an enthalpy of vaporization. The compound's melting point temperature fall within the range of measured VPs						
	SUB		70.7 ± 1.2	298	C	[1984BIC/PIL]
$C_6H_4N_2$	[100-54-9]	3-cyanopyridine				
	SUB		72.1 ± 1.8	298	C	[1984BIC/PIL]
	SUB	(233–323)	62.8	298	ME	[1991AUE/WEB]
Note: Authors of [1991AUE/WEB] refer to the value as an enthalpy of vaporization. The compound's melting point temperature falls at the upper end of the range of measured VPs						
	SUB		79.0		DSC	[1989SHI/SHI]
$C_6H_4N_2$	[100-48-1]	4-cyanopyridine				
	SUB		73.2 ± 0.6	298	C	[1984BIC/PIL]
	SUB	(233–323)	54.0	298	ME	[1991AUE/WEB]
Note: Authors of [1991AUE/WEB] refer to the value as an enthalpy of vaporization. The compound's melting point temperature falls above the range of measured VPs						
	SUB		75.6		DSC	[1989SHI/SHI]
$C_6H_4N_2O$	[14906-64-0]	3-cyanopyridine *N*-oxide				
	SUB	(345–392)	101.9 ± 2.0	298	ME	[1998RIB/MAT]
$C_6H_4N_2O$	[14906-59-3]	4-cyanopyridine *N*-oxide				
	SUB	(345–392)	104.4 ± 4.3	298	ME	[1998RIB/MAT]
$C_6H_4N_2O$	[273-09-6]	benzofurazan				
	SUB		64.4 ± 1.6	298	C	[1990LEI/PIL]
	SUB		64.9 ± 1.7	298	ME, GS	[1980ARS]
$C_6H_4N_2O_2$	[480-96-6]	benzofurazan *N*-oxide				
	SUB		79.6 ± 1.7	298	C	[1990LEI/PIL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_4N_2O_3$	[612-29-3]	1-nitro-2-nitrosobenzene (dimer)				
	SUB	(323–343)	95.5	333	A	[1987STE/MAL, 1974PEP/LEB]
$C_6H_4N_2O_4$	[528-29-0]	1,2-dinitrobenzene				
	FUS		22.18	387.7	DSC	[1993ACR, 1990HWA/TAM]
	FUS		22.84	396.1		[1996DOM/HEA, 1926AND/LYN]
	SUB	(323–383)	94.0		TGA	[2011FEL/RAM]
	SUB	(323–353)	95.5 ± 0.9	298	GS	[1997VER3]
	SUB	(323–353)	93.1 ± 0.9	338	GS	[1997VER3]
	SUB	(343–387)	82.9	358	A	[1987STE/MAL]
	SUB	(343–397)	87.9 ± 2.1	298	TE	[1976FER/PIA]
	SUB	(328–338)	86.6 ± 1.2	309		[1935TRI, 1938WOL/WEG, 1960JON]
	V	(454–593)	60.0	469	A	[1987STE/MAL, 1972DYK]
$C_6H_4N_2O_4$	[99-65-0]	1,3-dinitrobenzene				
	FUS		18.8	361.85	DSC	[2015SIN/SIN2]
	FUS		16.0	364.0	DSC	[2011RAI/MUD]
	FUS		21.2	364.8	DSC	[2010AGR/GUP]
	FUS		24.2	363.0	DSC	[2004GUP/SIN]
	FUS		13.8	363.0	DSC	[2004SHA/TAN]
	FUS		19.68	360.4	DSC	[2002MUS/RAZ]
	FUS		17.57	360.1	DSC	[1993ACR, 1990HWA/TAM]
	FUS		17.36	363.2		[1991ACR, 1983WEA]
	SUB	(335–356)	76.1	345.5	A	[1987STE/MAL]
	SUB	(332–383)	87.0 ± 0.8	298	TE	[1976FER/PIA]
	SUB	(315–329)	81.1 ± 1.7	323		[1935TRI, 1938WOL/WEG, 1960JON]
	SUB		81.2 ± 1.7			[1950NIT/SEK3, 1970COX/PIL]
	V	(336–379)	96.7	351	A	[1987STE/MAL]
$C_6H_4N_2O_4$	[100-25-4]	1,4-dinitrobenzene				
	FUS		17.58	446	DSC	[2002MUS/RAZ]
	FUS		26.36	444.2	DSC	[1993ACR, 1990HWA/TAM]
	FUS		28.12	446.7		[1991ACR, 1983WEA]
	SUB	(323–433)	88.3		TGA	[2011FEL/RAM]
	SUB	(323–353)	91.9 ± 0.7	338	GS	[1997VER3]
	SUB	(323–353)	94.3 ± 0.7	298	GS	[1997VER3]
	SUB	(339–398)	96.2 ± 2.5	298	TE	[1976FER/PIA]
	SUB	(345–368)	89.1 ± 1.7	343		[1935TRI, 1938WOL/WEG, 1960JON]
	V	(445–572)	60.3	460	A	[1987STE/MAL, 1972DYK]
$C_6H_4N_2O_5$	[66-56-8]	2,3-dinitrophenol				
	FUS		22.67	419	DSC	[2002MUS/RAZ]
	FUS		26.24	417	DSC	[1996DOM/HEA, 1982POE/FAN]
	SUB	(303–343)	96.6	323		[1958HOY/PEP]
$C_6H_4N_2O_5$	[51-28-5]	2,4-dinitrophenol				
	FUS		25.3	388	DSC	[2004SHA/TAN]
Note: Melting point temperature of 363.3 K was given in the experimental section of [2004SHA/TAN] for 2,4-dinitrophenol; however, a much higher was shown in the phase diagrams.						
	FUS		26.19	383.2	DSC	[2002MUS/RAZ]
	FUS		24.17	388	DSC	[1996DOM/HEA, 1982POE/FAN]
	SUB	(293–333)	104.6 ± 4.2	313		[1958HOY/PEP, 1970COX/PIL]
$C_6H_4N_2O_5$	[329-71-5]	2,5-dinitrophenol				
	FUS		23.73	381.0	DSC	[1996DOM/HEA, 1982POE/FAN]
	SUB	(278–333)	93.4	306		[1958HOY/PEP]
$C_6H_4N_2O_5$	[573-56-8]	2,6-dinitrophenol				
	FUS		22.91	329	DSC	[2002MUS/RAZ]
	FUS		19.58	336.0	DSC	[1996DOM/HEA, 1982POE/FAN]
	SUB	(293–333)	112.1 ± 4.2	313		[1958HOY/PEP, 1970COX/PIL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_4N_2O_5$	[577-71-9]	3,4-dinitrophenol				
	FUS		25.37	407	DSC	[1996DOM/HEA, 1982POE/FAN]
	SUB	(328–383)	123.5	383		[1958HOY/PEP]
$C_6H_4N_2S$	[273-13-2]	2,1,3-benzothiadiazole				
	FUS		16.30	317.0	DSC	[2012MIR/MAT]
	SUB		76.0 ± 1.8	298	C	[2012MIR/MAT]
$C_6H_4N_4$	[19485-35-9]	4,5-dicyano-1-methylimidazole				
	FUS		14.8	360.2	DSC	[2012ALM/MON]
	SUB	(338–359)	94.8 ± 0.5	360	Static	[2012ALM/MON]
	SUB	(338–359)	96.4 ± 0.5	298	Static	[2012ALM/MON]
	V	(356–404)	80.6 ± 0.8	360	Static	[2012ALM/MON]
	V	(356–404)	86.9 ± 0.8	298	Static	[2012ALM/MON]
$C_6H_4N_4O_2$	[1516-60-5]	4-nitrophenyl azide				
	FUS		21.3	341.4	DSC	[2014EME/ALG]
	FUS		17.1	345.4	DSC	[1997FIN/GAR]
	SUB	(313–340)	93.0 ± 0.6	298	GS	[2014EME/ALG]
	V	(345–370)	74.5 ± 1.1	298	GS	[2014EME/ALG]
$C_6H_4N_4O_6$	[489-98-5]	2,4,6-trinitroaniline				
	SUB		124.7		DSC	[1990HWA/YOS]
	SUB	(328–371)	115.9	343	LE	[1987STE/MAL, 1969ROS/DIC]
	SUB	(326–449)	125.3 ± 0.8	298	ME	[1978CUN/PAL]
	V		95.8		DSC	[1990HWA/YOS]
$C_6H_4N_2S$	[273-13-2]	2,1,3-benzothiadiazole				
	SUB		70.73 ± 0.2	298	C	[1998SAB/KUA]
$C_6H_4O_2$	[106-51-4]	1,4-benzoquinone				
	FUS		18.40 ± 0.1	385.1	DSC	[2004ROJ/FOR]
	FUS		18.35 ± 0.3	385.7	HFC	[2004ROJ/FOR]
	FUS		19.6	383.1	DSC	[2004GUP/SIN]
	FUS		18.53	386.1		[1991ACR, 1983WEA]
	SUB		66.7 ± 1.6	298	DSC	[2004ROJ/FOR]
	SUB		68.0 ± 0.5	262	ME, TE	[1981DEK/SMI]
	SUB		62.8 ± 3.3			[1956MAG, 1977PED/RYL]
	SUB		68.5 ± 0.6			[1953SEK/SUZ]
	SUB	(260–278)	62.8	269	QF	[1927COO/COO]
	V	(388–402)	47.8	395	A	[1987STE/MAL]
$(C_6H_4O_2)$-$(C_6H_6O_2)$	[106-34-3]	quinhydrone (quinone-hydroquinone)				
	SUB	(308–325)	89.3 ± 1	313	TE	[1981DEK/SMI]
	SUB		87.8 ± 1	313	ME	[1981DEK/SMI]
	SUB		U181.2			[1953SEK/SUZ, 1960JON]
	SUB		NA			[1951NIT/SEK]
$C_6H_4O_5$	[3238-40-2]	furan-2,5-dicarboxylic acid				
	SUB	(378–402)	121.3	391	TE, ME	[1983SPE/CLI]
$C_6H_4S_4$	[31366-25-3]	tetrathiafulvene				
	SUB	(331–355)	95.3	343		[1999DYK/SVO]
	SUB		61.0		TGA	[1995YAS/TAK]
	SUB		95.3 ± 1	345	TE, ME	[1980DEK/GOV]
	SUB	(341–361)	92 ± 6.3	351	HSA	[1979SAN/EPS]
$(C_6H_4S_4)$-$(C_{12}H_4N_4)$	[40210-84-2]	(tetrathiofulvalene)-(7,7,8,8-tetracyanoquinodimethane) (TTF-TCNQ)				
	SUB		94.2		TGA	[1995YAS/TAK]
	SUB		130 ± 2	410	TE, ME	[1980DEK/GOV]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6H_5Br	[108-86-1]	bromobenzene				
	FUS	(11–300)	10.7	242.4	AC	[1996DOM/HEA, 1975MAS/SCO]
	FUS		10.6	242.4		[1937STU]
	V	(277–303)	44.3 ± 0.6	298	GS	[2015VER/SAZ]
	V	(330–430)	44.8	298		[1984BOU/FRI, 1991BAS/SVO]
	V		44.0	293	C	[1975MAS/SCO]
	V	(333–463)	42.3	348	A	[1987STE/MAL, 1972DYK]
	V	(321–429)	41.0 ± 0.1	375	Static	[1968SMI/SMI]
	V	(321–429)	44.7 ± 0.5	298	Static	[1968SMI/SMI, 2015VER/SAZ]
	V		44.5 ± 0.1	298	C	[1968WAD]
	V	(329–427)	42.4	344	EB	[1955DRE/MAR]
	V	(329–427)	45.0 ± 0.5	298	EB	[1955DRE/MAR, 2015VER/SAZ]
	V		39.7 ± 0.1	428	C	[1926MAT, 2015VER/SAZ]
	V		44.5 ± 1.7	298	C	[1926MAT, 2015VER/SAZ]
$C_6H_5BrN_2O_2$	[875-51-4]	4-bromo-2-nitroaniline				
	FUS		17.4	384.2	DSC	[2011RED/GAN, 2012RED/SAT]
C_6H_5BrO	[95-56-7]	2-bromophenol				
	V		55.5 ± 1.3	298	C	[2009RIB/FER5]
	V		50.2			[1986BAL/GNA]
C_6H_5BrO	[591-20-8]	3-bromophenol				
	V	(410–510)	73.5	425	A	[1987STE/MAL]
	V		55.2			[1986BAL/GNA]
C_6H_5BrO	[106-41-2]	4-bromophenol				
	FUS		16.9	337.8	DSC	[2013ALM/MON3]
	FUS		17.6	338.2	DSC	[2004KUR/MAE]
	FUS		16.57	336		[1996DOM/HEA, 1889EYK]
	FUS		13.0	336.7		[1996DOM/HEA, 1884WER]
	SUB	(286–331)	83.9 ± 0.1	306	Static	[2013ALM/MON3]
	SUB	(286–331)	84.2 ± 0.1	298	Static	[2013ALM/MON3]
	SUB		83.1 ± 1.6	298	C	[2009RIB/FER5]
	SUB	(260–302)	87.3 ± 0.4	298	ME	[1971PAR/ROC]
	V	(303–370)	65.2 ± 0.1	334	Static	[2013ALM/MON3]
	V	(303–370)	68.7 ± 0.1	298	Static	[2013ALM/MON3]
	V	(390–511)	58.8	405	A	[1987STE/MAL]
	V		58.6			[1986BAL/GNA]
C_6H_5BrS	[6320-02-1]	2-bromobenzenethiol				
	V		50.6			[1986BAL/GNA]
C_6H_5BrS	[6320-01-0]	3-bromobenzenethiol				
	V		51.1			[1986BAL/GNA]
C_6H_5BrS	[106-53-6]	4-bromobenzenethiol				
	V		52.3			[1986BAL/GNA]
$C_6H_5Br_2N$	[615-57-6]	2,4-dibromoaniline				
	FUS		21.37	351.4	DSC	[2006RIB/FER]
	SUB		88.0 ± 1.5	298	C	[2006RIB/FER]
$C_6H_5Br_2N$	[3638-73-1]	2,5-dibromoaniline				
	FUS		20.47	328.1	DSC	[2006RIB/FER]
	SUB		85.7 ± 1.9	298	C	[2006RIB/FER]
$C_6H_5Br_2N$	[608-30-0]	2,6-dibromoaniline				
	FUS		21.79	355.5	DSC	[2006RIB/FER]
	SUB		80.7 ± 1.4	298	C	[2006RIB/FER]
C_6H_5Cl	[108-90-7]	chlorobenzene				
	FUS		9.55	227.9		[1996DOM/HEA, 1937STU]
	V	(275–307)	41.2 ± 0.3	298	GS	[2014VER/EME]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(374–405)	41.9 ± 2.0	298	EB	[2001ROL/KRA, 2014VER/EME]
	V	(405–462)	43.8 ± 0.1	298	EB	[1998DEJ/GON, 2014VER/EME]
	V		41.3 ± 0.6	298	EB	[1997DEJ/GON, 2014VER/EME]
	V	(313–353)	40.3	298	CGC	[1995CHI/HOS]
	V	(413–453)	43.9	298	GC	[1994SPI/LUI]
	V	(258–313)	48.1		GC	[1994LIU/DIC]
	V	(353–368)	42.5 ± 2.0	298	EB	[1989VAR/SOM2, 2014VER/EME]
	V		40.6 ± 0.3		GC	[1989AZA]
	V	(405–597)	35.4	420	A	[1987STE/MAL]
	V	(298–398)	40.8 ± 0.4	298	Static	[1985SRI/SMI, 2014VER/EME]
	V	(335–405)	41.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(298–398)	41.3 ± 0.7	298	Static	[1983KHU/MUN, 2014VER/EME]
	V	(328–353)	41.7 ± 0.7	298	EB	[1980DIA/CRE, 2014VER/EME]
	V	(293–393)	41.2 ± 0.2	298	Static	[1980MAH/SMI, 2014VER/EME]
	V	(313–393)	41.2 ± 0.1	298	Static	[1979MAH/SMI2, 2014VER/EME]
	V	(372–403)	39.7 ± 0.7	298	EB	[1985FRA/COM, 2014VER/EME]
	V	(335–387)	38.7	350		[1971LET/BAY]
	V		41.0 ± 0.1	298	C	[1968WAD]
	V	(298–318)	41.4 ± 0.3	298	EB	[1967DES/PAN, 2014VER/EME]
	V	(333–405)	38.8	348	A	[1987STE/MAL, 1952BRO, 1984BOU/FRI]
	V	(335–405)	41.6 ± 0.1	298	EB	[1952BRO, 2014VER/EME]
	V	(253–303)	37.3	278	ME	[1940ZIL]
	V	(373–452)	42.4 ± 0.1	298	EB	[1930ZMA, 2014VER/EME]
	V		36.6	403	C	[1926MAT]
	V		41.9 ± 0.1	298	C	[1926MAT, 2014VER/EME]
	V	(238–258)	39.7 ± 0.4	298		[1913MUN, 2014VER/EME]
$C_6H_5ClN_2O_2$	[121-87-9]	2-chloro-4-nitroaniline				
	SUB		101.8 ± 1.8	298	C	[2003RIB/LIM]
	SUB	(335–351)	100.3 ± 1.5	343	ME	[2003RIB/LIM]
	SUB	(335–351)	102.6 ± 1.5	298	ME	[2003RIB/LIM]
$C_6H_5ClN_2O_2$	[6283-25-6]	2-chloro-5-nitroaniline				
	SUB		100.3 ± 2.2	298	C	[2003RIB/LIM]
	SUB	(325–341)	99.3 ± 1.6	333	ME	[2003RIB/LIM]
	SUB	(325–341)	101.0 ± 1.6	298	ME	[2003RIB/LIM]
C_6H_5ClO	[95-57-8]	2-chlorophenol				
	TRS		0.09	276		
	FUS		12.52	283	DSC	[1991ACR, 1982POE/FAN]
	V	(288–321)	51.9	305	GS	[2007VER/EME]
	V	(288–321)	52.3 ± 0.2	298	GS	[2007VER/EME]
	V	(337–447)	47.0	352		[1995GAB/MAR]
	V		45.2			[1966GOO/DEP]
	V	(354–448)	47.2	369	A	[1987STE/MAL]
	V	(333–449)	50.1	348	A	[1987STE/MAL, 1974KIV/NAD]
	V	(285–447)	45.2	300		[1947STU]
C_6H_5ClO	[108-43-0]	3-chlorophenol				
	FUS		13.64	304.2	DSC	[2002LIP/SCH]
	FUS		14.91	305.8	DSC	[1991ACR, 1982POE/FAN]
	SUB	(275–306)	76.9 ± 0.3	298	GS	[2007VER/EME]
	SUB		69.4 ± 1.8	298	C	[1994RIB/FER2]
	SUB		53.1			[1938WOL/WEG, 1960JON, 1970COX/PIL]
	V	(308–335)	61.9	322	GS	[2007VER/EME]
	V	(308–335)	63.5 ± 0.3	298	GS	[2007VER/EME]
	V		52.3			[1986BAL/GNA]
	V	(317–487)	53.1	332	A	[1987STE/MAL, 1947STU]
C_6H_5ClO	[106-48-9]	4-chlorophenol				
	FUS		14.0	316.9	DSC	[2013ALM/MON3]
	FUS		13.76	315.7	DSC	[2002LIP/SCH]
	FUS		14.07	315.9	DSC	[1991ACR, 1982POE/FAN]
	FUS		14.7			[2002LIP/SCH, 1936LUC/LIK]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(274–311)	79.0 ± 0.1	292	Static	[2013ALM/MON3]
	SUB	(274–311)	78.9 ± 0.1	298	Static	[2013ALM/MON3]
	SUB	(283–313)	77.1 ± 0.2	298	GS	[2007VER/EME]
	SUB		69.5 ± 1.6	298	C	[1994RIB/FER2]
	SUB	(252–293)	60.8	278	A	[1987STE/MAL]
	SUB		51.9			[1938WOL/WEG, 1960JON, 1970COX/PIL]
	V	(273–331)	65.5 ± 0.1	302	Static	[2013ALM/MON3]
	V	(273–331)	65.7 ± 0.1	298	Static	[2013ALM/MON3]
	V	(318–351)	61.9	335	GS	[2007VER/EME]
	V	(318–351)	64.4 ± 0.3	298	GS	[2007VER/EME]
	V	(373–493)	60.6	388	A	[1987STE/MAL]
	V		54.0			[1986BAL/GNA]
	V	(323–493)	52.8	338		[1947STU]
C_6H_5ClS	[6320-03-2]	2-chlorobenzenethiol				
	V		47.7			[1986BAL/GNA]
C_6H_5ClS	[2037-31-2]	3-chlorobenzenethiol				
	V		48.5			[1986BAL/GNA]
C_6H_5ClS	[106-54-7]	4-chlorobenzenethiol				
	V		48.5			[1986BAL/GNA]
$C_6H_5ClO_2$	[2138-22-9]	4-chloro-1,2-benzenediol				
	V	(293–323)	70.2	308	CGC	[1999LEI/WAN2]
$C_6H_5ClO_2$	[615-67-8]	chlorohydroquinone				
	SUB	(306–334)	102.9 ± 8.3	320	QF	[1927COO/COO, 1960JON, 1970COX/PIL]
$C_6H_5ClO_2S$	[98-09-9]	benzenesulfonyl chloride				
	V	(339–524)	54.4	354		[1999DYK/SVO]
	V	(338–525)	57.2	353	A	[1987STE/MAL, 1947STU]
$C_6H_5ClO_3S$	[98-66-8]	4-chlorobenzene sulfonic acid				
	FUS		10.6	333.2	DSC	[1995MAC/JOY]
$C_6H_5Cl_2N$	[608-27-5]	2,3-dichloroaniline				
	SUB		82.2 ± 1.0	298	C	[2006RIB/AMA]
$C_6H_5Cl_2N$	[554-00-7]	2,4-dichloroaniline				
	SUB		84.7 ± 1.3	298	C	[2006RIB/AMA]
$C_6H_5Cl_2N$	[95-82-9]	2,5-dichloroaniline				
	SUB		83.4 ± 1.3	298	C	[2006RIB/AMA]
$C_6H_5Cl_2N$	[608-31-1]	2,6-dichloroaniline				
	SUB		74.2 ± 0.9	298	C	[2006RIB/AMA]
$C_6H_5Cl_2N$	[95-76-1]	3,4-dichloroaniline				
	FUS		21.69	344.5	DSC	[2003VER/SCH]
	SUB		87.5 ± 0.2	298	C	[2006RIB/AMA]
	SUB	(296–343)	88.1 ± 0.1	298	GS	[2003VER/SCH]
	V	(346–373)	70.4 ± 0.3	298	GS	[2003VER/SCH]
	V	(420–545)	58.6	435	A	[1987STE/MAL]
$C_6H_5Cl_2N$	[626-43-7]	3,5-dichloroaniline				
	SUB		86.7 ± 0.7	298	C	[2006RIB/AMA]
	V	(447–535)	50.1	462	EB	[2013LI/ZHA]
$C_6H_5Cl_2OP$	[3426-89-9]	phenyl dichlorophosphite				
	V	(363–480)	52.7	378		[2008SHA/WU]
$C_6H_5Cl_2O_2P$	[770-12-7]	phenyl dichlorophosphate				
	V	(339–513)	63.6	354	A	[1987STE/MAL, 1947STU]
C_6H_5F	[462-06-6]	fluorobenzene				
	FUS		11.31	230.9		[1996DOM/HEA, 1956SCO/MCC2]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		10.4	231.1		[1937STU]
	V	(274–303)	34.5 ± 0.2	298	GS	[2014VER/EME]
	V	(358–530)	31.9	373	A	[1987STE/MAL]
	V	(373–419)	31.8	388	A	[1987STE/MAL]
	V	(414–501)	31.0	429	A	[1987STE/MAL]
	V	(497–561)	30.9	512	A	[1987STE/MAL]
	V	(255–360)	34.5	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(313–353)	35.2 ± 0.1	298	EB	[1980DIA/CRE, 2014VER/EME]
	V	(312–394)	33.6	327	EB	[1987STE/MAL, 1956SCO/MCC2]
	V		33.5 ± 0.1	318	C	[1956SCO/MCC2]
	V		32.4 ± 0.1	337	C	[1956SCO/MCC2]
	V		31.2 ± 0.1	358	C	[1956SCO/MCC2]
	V		29.7 ± 0.1	382	C	[1956SCO/MCC2]
	V	(255–357)	34.6 ± 0.1	298	Static	[1889YOU, 2014VER/EME]
C_6H_5FO	[367-12-4]	2-fluorophenol				
	V		52.3 ± 0.8	298	C	[2009RIB/FER]
C_6H_5FO	[372-20-3]	3-fluorophenol				
	V		60.1 ± 0.9	298	C	[2009RIB/FER]
	V	(373–451)	50.3	388	A	[1987STE/MAL]
C_6H_5FO	[371-41-5]	4-fluorophenol				
	FUS		14.5	320.4	DSC	[2013ALM/MON3]
	SUB	(265–317)	74.3 ± 0.1	291	Static	[2013ALM/MON3]
	SUB	(265–317)	74.1 ± 0.1	298	Static	[2013ALM/MON3]
	SUB		73.9 ± 1.4	298	C	[2009RIB/FER]
	V	(291–343)	58.7 ± 0.1	317	Static	[2013ALM/MON3]
	V	(291–343)	60.0 ± 0.2	298	Static	[2013ALM/MON3]
	V	(360–460)	48.8	375	A	[1987STE/MAL]
$C_6H_5F_2N$	[4519-40-8]	2,3-difluoroaniline				
	V		49.3 ± 0.5	298	C	[2007RIB/FER]
$C_6H_5F_2N$	[367-25-9]	2,4-difluoroaniline				
	V		52.1 ± 0.5	298	C	[2007RIB/FER]
$C_6H_5F_2N$	[367-30-6]	2,5-difluoroaniline				
	V		52.5 ± 0.5	298	C	[2007RIB/FER]
$C_6H_5F_2N$	[5509-65-9]	2,6-difluoroaniline				
	V		47.5 ± 0.5	298	C	[2007RIB/FER]
$C_6H_5F_2N$	[3863-11-4]	3,4-difluoroaniline				
	V		53.3 ± 0.5	298	C	[2007RIB/FER]
$C_6H_5F_2N$	[372-39-4]	3,5-difluoroaniline				
	FUS		16.49	312.7	DSC	[2007RIB/FER]
	SUB		71.7 ± 1.7	298	C	[2007RIB/FER]

Note: Authors indicate that this is a liquid to vapor phase transition; however, we believe it to be a solid to vapor transition given the size of the numerical value and that the calorimetric measurement was made below the melting point temperature.

$C_6H_5F_8NOS$	[77984-30-6]	1-(ethylimino)-2,2,3,3,4,4,5,5-octafluoro-1,1,2,3,4,5-hexahydrothiophene-1-oxide				
	V		31.4	333		[1981ABE/SHR]
$C_6H_5F_9O$	[163702-05-4]	1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane				
	V	(293–350)	34.2	308	I	[2002MUR/YAM]
C_6H_5I	[591-50-4]	iodobenzene				
	FUS		9.75	241.8		[1996DOM/HEA, 1937STU]
	V	(284–314)	48.5 ± 0.4	299	GS	[2015VER/SAZ]
	V	(284–314)	48.5 ± 0.6	298	GS	[2015VER/SAZ]
	V	(313–353)	47.4	298	CGC	[1995CHI/HOS]
	V	(462–679)	41.1	477	A	[1987STE/MAL]
	V	(320–460)	48.9	298		[1984BOU/FRI, 1991BAS/SVO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–358)	51.4	288	A	[1987STE/MAL, 1972DYK]
	V	(358–543)	46.0	373	A	[1987STE/MAL, 1972DYK]
	V	(243–255)	43.1			[1960JON]
	V	(248–303)	40.0	275	ME	[1940ZIL]
	V	(303–461)	46.4 ± 0.7	382		[1889YOU]
	V	(303–461)	49.1 ± 0.8	298		[1889YOU, 2015VER/SAZ]
C_6H_5IO	[533-58-4]	2-iodophenol				
	SUB		76.1 ± 1.4	298	C	[2011FER/RIB2]
C_6H_5IO	[626-02-8]	3-iodophenol				
	SUB		88.4 ± 1.6	298	C	[2011FER/RIB2]
C_6H_5IO	[540-38-5]	4-iodophenol				
	FUS		20.8	365.8	DSC	[2013ALM/MON3]
	SUB	(307–360)	88.9 ± 0.1	334	Static	[2013ALM/MON3]
	SUB	(307–360)	90.2 ± 0.2	298	Static	[2013ALM/MON3]
	SUB		88.7 ± 1.6	298	C	[2011FER/RIB2]
	V	(337–380)	67.4 ± 0.1	359	Static	[2013ALM/MON3]
	V	(337–380)	73.0 ± 0.4	298	Static	[2013ALM/MON3]
C_6H_5NO	[586-96-9]	nitrosobenzene (dimer)				
	SUB	(297–339)	85.1	312	A	[1987STE/MAL, 1974PEP/LEB]
	SUB		80.8			[1930DRU/FLA]
$C_6H_5NO_2$	[98-95-3]	nitrobenzene				
	FUS		10.82	278.9	DTA	[1967PAC]
	FUS	(90–300)	12.12	278.8		[1996DOM/HEA, 1936PAR/TOD]
	FUS		11.5			[1936LUC/LIK]
	V	(313–353)	54.5	298	CGC	[1995CHI/HOS]
	V	(288–318)	54.3	303		[1985ZAR]
	V	(291–305)	56.1 ± 1.7	298	ME	[1971LEB/KAT]
	V		55.0 ± 0.1	298	C	[1971KUS/WAD2]
	V	(279–296)	54.7	287	A	[1987STE/MAL, 1972DYK, 1960LYN/WIL]
	V	(283–303)	52.5	293	ME	[1958SKL/MAR]
	V	(407–483)	48.5	422		[1952OLI/GRI, 1984BOU/FRI]
	V	(369–481)	48.9	425		[1933TOR/MOL]
$C_6H_5NO_2$	[98-98-6]	2-pyridinecarboxylic acid (picolinic acid)				
	FUS		30.0	411	TG, DTA	[1996DOM/HEA, 1989ALL/GED]
	SUB		91.0 ± 0.5	329	C	[1999SAB/IDE]
	SUB		92.7 ± 0.5	298		[1999SAB/IDE]
	SUB	(345–392)	98.0 ± 2.3	298	ME	[1998RIB/MAT]
$C_6H_5NO_2$	[59-67-6]	3-pyridinecarboxylic acid (nicotinic acid, niacin)				
	FUS		27.5	508.2	DSC	[2016VOL/BLO]
	TRS		1.29	453.6		
	FUS		27.7	507.0	DSC	[2012GON/MIN]
	TRS		0.9	455.0		
	FUS		28.2	509.9	DSC	[2012JOS/BER]
	TRS		0.83	456.1		
	FUS		27.8	509.9	DSC	[2010GON/BER]
	FUS		97.1	509.3	DSC	[2004WAN/WAN]
[Note: This value is considerably larger than values below—likely in error]						
	TRS		0.81	451.4		
	FUS		27.57	509.1	DSC	[2004WAN/TAN3]
	FUS		24.62		DSC	[2001REH/SHE]
[Note: [2001REH/SHE] reported a value of 12.4 kJ/mole for a sample having decreased crystalinity]						
	FUS		13.01	509.2		[1999SAB/IDE]
	TRS		0.78	452		
	FUS		26.7	510		[1993ELM/CHA]
	FUS		30.0	510.2	TG, DTA	[1989ALL/GED]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(362–387)	111.7 ± 1.2	298	GS	[2016VOL/BLO]
	SUB		112.1 ± 0.5	298	ME	[2010GON/BER]
	SUB	(473–498)	89.3		TG, DTA	[2002MEN/DOL]
	SUB	(352–360)	123.9 ± 3.7	298	ME	[2000RIB/GON]
	SUB		101.1 ± 0.6	362	C	[1999SAB/IDE]
	SUB		105.2 ± 0.6	298		[1999SAB/IDE]
	SUB		123.4 ± 1.2	298	C	[1984BIC/PIL]
$C_6H_5NO_2$	[55-22-1]	4-pyridinecarboxylic acid (isonicotinic acid)				
	FUS		135	593	TG, DTA	[1996DOM/HEA, 1989ALL/GED]
Note: Enthalpy of fusion is much too large, compound likely decomposed						
	SUB		107.7 ± 0.7	362	C	[1999SAB/IDE]
	SUB		111.3 ± 0.6	298		[1999SAB/IDE]
	SUB	(345–392)	113.9 ± 4.7	298	ME	[1998RIB/MAT]
$C_6H_5NO_3$	[88-75-5]	2-nitrophenol				
	FUS		U14.88	319.2	DSC	[2014HAS/JIR]
	FUS		21.77	318.7		[2012SHA/LAL]
	FUS		17.05	316.3	DSC	[2002MUS/RAZ]
	FUS		17.45	318.2	DTA	[1991ACR, 1994SAB/GOU]
	FUS		17.88		DSC	[1992SHA/SHA]
	FUS		17.91	318.6	DSC	[1990DON/DRE]
	SUB		73.3	298	C	[1994SAB/GOU]
	SUB	(273–292)	54.8	282.5	A	[1987STE/MAL]
	SUB	(298–310)	73.2 ± 1.3			[1935TRI, 1938WOL/WEG, 1960JON]
	V	(319–346)	58.4 ± 0.5	298	GS	[2007HEI/KAP]
	V	(366–490)	55.9	381	A	[1987STE/MAL]
	V	(324–347)	U43.3	298	ME	[1958SKL/MAR, 2007HEI/KAP]
	V	(322–357)	54.4	337	A	[1947STU]
$C_6H_5NO_3$	[554-84-7]	3-nitrophenol				
	FUS		18.06	369	DSC	[2002MUS/RAZ]
	FUS		19.2	370	DSC	[1982POE/FAN]
	FUS		19.19	371.2	DTA	[1991ACR, 1994SAB/GOU]
	TRS		0.17	356		
	FUS		19.96	370	DSC	[1996DOM/HEA, 1989WOJ/MAR]
	FUS		21.3	370.0		[1996DOM/HEA, 1972BOO/HAU]
	SUB		91.2 ± 0.5	298	C	[1994SAB/GOU]
	SUB	(316–330)	98.9 ± 0.6	321	ME	[1992RIB/REI]
	SUB	(316–330)	100.2 ± 0.6	298	ME	[1992RIB/REI]
	SUB	(305–334)	76.2	319.5		[1987STE/MAL]
	SUB	(303–328)	91.8		ME	[1974LIO/HOP]
	SUB	(325–336)	91.6 ± 1.7			[1935TRI, 1938WOL/WEG, 1960JON]
$C_6H_5NO_3$	[100-02-7]	4-nitrophenol				
	FUS		16.69	385.2	DSC	[2014HAS/JIR]
	FUS		18.97	388.2	DSC	[2013SIN/PAN]
	FUS		19.22	387.2	DSC	[2012KAN/RAI]
	TRS		5.0			
	FUS		12.0		DSC	[2006WOJ/MOS]
Note: Authors of [2006WOJ/MOS] report that the β-phase to α-phase was very sluggish, and difficult to quantify. The values given were referred to as crude estimates						
	FUS		11.0	386.4	DSC	[2002MUS/RAZ]
	FUS		18.3	388.2	DSC	[1999RAI/RAI]
	FUS		18.25	388.2	DTA	[1996DOM/HEA, 1994SAB/GOU]
	FUS		18.86	386.1	DSC	[1990DON/DRE]
	FUS		U30.12	385.2	DTA	[1986SIN/KUM]
	FUS		19.3			[1972BOO/HAU]
	FUS		21.4	386.2	DTA	[1958VAR]
	SUB		92.4	298	C	[1994SAB/GOU]
	SUB	(303–328)	87.9		ME	[1974LIO/HOP]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(305–352)	98.8 ± 1	298	ME	[1971PAR/ROC]
	SUB	(339–351)	91.2 ± 1.7			[1935TRI, 1938WOL/WEG, 1960JON]
$C_6H_5NO_3$	[824-40-8]	pyridine-2-carboxylic acid *N*-oxide				
	SUB	(345–392)	94.4 ± 4.0	298	ME	[1998RIB/MAT]
$C_6H_5NO_3$	[2398-81-4]	pyridine-3-carboxylic acid *N*-oxide				
	SUB		152.3 ± 1.9	298	ME	[1995ACR/TUC, 1995ABB/JIM]
$C_6H_5NO_3$	[13602-12-5]	pyridine-4-carboxylic acid *N*-oxide				
	SUB	(345–392)	136.1 ± 1.2	298	ME	[1998RIB/MAT]
$C_6H_5NO_3$	[84522-17-8]	(2-furyl)oxoacetamide				
	FUS (I)		22.0	373.4		
	FUS (II)		17.8	367.2	DSC	[2008BAR/BER]
$C_6H_5NO_3$	[609-71-2]	2-hydroxynicotinic acid				
	SUB	(433–461)	125.4 ± 5.0	447	ME	[2009SAN/FIG]
	SUB	(433–461)	128.3 ± 5.1	298	ME	[2009SAN/FIG]
$C_6H_5NO_3$	[609-70-1]	4-hydroxynicotinic acid				
	SUB	(425–456)	144.6 ± 3.6	441	ME	[2009SAN/FIG]
	SUB	(425–456)	148.1 ± 3.7	298	ME	[2009SAN/FIG]
$C_6H_5NO_3$	[27828-71-3]	5-hydroxynicotinic acid				
	SUB	(436–458)	147.1 ± 7.0	447	ME	[2009SAN/FIG]
	SUB	(436–458)	149.8 ± 7.1	298	ME	[2009SAN/FIG]
$C_6H_5NO_3$	[5006-66-6]	6-hydroxynicotinic acid				
	SUB	(461–488)	143.0 ± 4.5	475	ME	[2009SAN/FIG]
	SUB	(461–488)	146.4 ± 4.6	298	ME	[2009SAN/FIG]
$C_6H_5NO_3$	[699-18-3]	2-(2-nitrovinyl)furan				
	FUS		24.1	346.5	DSC	[2015RUZ/GON]
	SUB	(308–333)	86.5	320	TGA	[2015RUZ/GON]
$C_6H_5NO_3S$	[39565-00-9]	2-acetyl-5-nitrothiophene				
	SUB	(308–330)	100.4 ± 0.4	319	ME	[2010RIB/SAN4]
	SUB	(308–330)	101.5 ± 0.4	298	ME	[2010RIB/SAN4]
$C_6H_5NO_4$	[601-89-8]	2-nitro-1,3-dihydroxybenzene				
	SUB	(253–293)	74.5	273		[1958HOY/PEP]
$C_6H_5NO_4$	[3316-09-4]	4-nitrocatechol				
	FUS		28.9	450.2	DSC	[2012BOO/BAN]
	SUB		121.1 ± 1.4	298	C	[1986RIB/RIB]
$C_6H_5NO_5$	[1874-23-3]	methyl 5-nitro-2-furancarboxylate				
	SUB		104.2 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
C_6H_5NS	[20893-30-5]	2-thiopheneacetonitrile				
	V		60.5 ± 1.3	298	C	[2008RIB/SAN]
C_6H_5NS	[13781-53-8]	3-thiopheneacetonitrile				
	V		61.1 ± 1.3	298	C	[2008RIB/SAN]
C_6H_5NS	[55406-13-8]	3-methyl-2-thiophenecarbonitrile				
	V		54.4 ± 1.2	298	C	[2008RIB/SAN]
$C_6H_5N_3$	[622-37-7]	phenyl azide				
	V	(348–368)	45.2	358	A	[1987STE/MAL, 1972DYK]
$C_6H_5N_3$	[95-14-7]	1-*H*-benzotriazole				
	FUS		7.7	369.9		[1999SAB/PER]
	SUB		98.2 ± 0.7	298	C	[1999SAB/PER]
	SUB		99.0 ± 0.5	298	ME	[1989JIM/ROU]
	SUB		97.9		ME	[1961ZIM/GEI]
$C_6H_5N_3$	[274-79-3]	imidazo[1,2-a]pyrazine				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		15.3	359.2	DSC	[2016MOR/RAT]
	SUB		82.1 ± 1.9	298	F+ V	[2016MOR/RAT]
	V	(370–393)	70.7 ± 1.0	298	GS	[2016MOR/RAT]
	V		67.9 ± 1.4	298	CGC	[2016MOR/RAT]
$C_6H_5N_5O_6$	[28930-29-2]	1,3-diamino-2,4,6-trinitrobenzene				
	SUB		146.9		DSC	[1990HWA/YOS]
	SUB	(335–382)	140.0	350	LE	[1987STE/MAL, 1969ROS/DIC]
	SUB		143.5	298		[1978CUN/PAL]
	V		110.9		DSC	[1990HWA/YOS]
C_6H_6	[71-43-2]	benzene				
	FUS		10.7	278	DSC	[1999WAT/IIY]
	FUS		9.94	278.6		[1948TSC]
	FUS		9.87	278.7		[1948OLI/EAT]
	FUS		9.92	278.7	C	[1996DOM/HEA, 1942ZIE/AND]
	FUS	(92–300)	9.80	278.6	C	[1996DOM/HEA, 1930HUF/PAR2]
	FUS		9.87	278.7	C	[1996DOM/HEA, 1926AND/LYN]
	FUS		10.00	278.6		[1925MAA/WAL]
	FUS		9.78	279.0		[1924STR/PAR]
	SUB	(258–273)	41.7			[1994LIU/DIC]
	SUB	(223–279)	45.2	264	A	[1987STE/MAL, 1976HA/MOR]
	SUB		45.1	278		[1984HES/WIS]
	SUB	(183–197)	44.4	298	TE, ME	[1980DEK]
	SUB	(183–197)	53.9 ± 0.8	193	TE	[1977DEK/VAN]
	SUB	(183–197)	49.4 ± 0.4	193	ME	[1977DEK/VAN]
	SUB	(221–268)	45.6	279	MM	[1974JAC]
	SUB		44.1	261		[1960JON]
	SUB		43.1	229		[1960JON]
	SUB	(195–273)	44.6	279	MG	[1956MIL]
	SUB	(263–270)	46.6	282	A	[1947STU]
	SUB		44.6	273		[1936DEB, 1974JAC]
	SUB	(184–200)	U33.2	192		[1933DEI]
	SUB	(214–238)	43.3	226	A	[1913MUN]
	V	(305–345)	33.2	320		[2002LUB/BAN]
	V	(258–313)	35.6		GC	[1994LIU/DIC]
	V	(296–377)	33.5	311	EB	[1990AMB/EWI]
	V		33.9 ± 0.2		GC	[1989AZA]
	V		33.4	307	C	[1988DON/LIN]
	V		33.1	314	C	[1988DON/LIN]
	V		32.4	324	C	[1988DON/LIN]
	V		31.9	332	C	[1988DON/LIN]
	V		31.4	344	C	[1988DON/LIN]
	V		30.6	353	C	[1988DON/LIN]
	V	(279–377)	34.4	294	A	[1987STE/MAL]
	V	(353–422)	31.5	368	A	[1987STE/MAL]
	V	(420–502)	30.2	435	A	[1987STE/MAL]
	V	(501–562)	30.3	516	A	[1987STE/MAL]
	V		30.8	352		[1983NAT/VIS]
	V		30.5	361		[1983NAT/VIS]
	V		30.2	366		[1983NAT/VIS]
	V	(313–373)	35.3	343		[1983TSO/WIL]
	V		31.0	350		[1977RAO/VIU]
	V		33.8 ± 0.1	298	C	[1973SVO/VES]
	V		33.0 ± 0.1	313	C	[1973SVO/VES]
	V		32.2 ± 0.1	328	C	[1973SVO/VES]
	V		31.8 ± 0.1	333	C	[1973SVO/VES]
	V		31.4 ± 0.1	343	C	[1973SVO/VES]
	V		30.9 ± 0.1	353	C	[1973SVO/VES]
	V		32.6 ± 0.4	313	DSC	[1971MIT/IMA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		32.5 ± 0.5	328	DSC	[1971MIT/IMA]
	V		33.9	298		[1971WIL/ZWO]
	V		31.6 ± 0.4	345	DSC	[1971MIT/IMA]
	V	(325–353)	32.4	340		[1971LET/BAY]
	V		34.1	293		[1949YAR/FED]
	V	(284–354)	34.1	299		[1949FOR/NOR]
	V		33.8	298	C	[1947OSB/GIN]
	V		32.9	315	C	[1947SCO/WAD]
	V		32.4	323	C	[1947SCO/WAD]
	V		31.8	334	C	[1947SCO/WAD]
	V		30.7	353	C	[1947SCO/WAD]
	V	(282–354)	34.1	297		[1946THO]
	V	(288–354)	34.1	303	MM	[1945WIL/TAY]
	V	(298–373)	33.4	313	EB	[1941SMI]
	V	(273–348)	34.5	288		[1940STU/SAY]
	V		32.5	323	C	[1931FIO/GIN]
	V		30.8	353	C	[1931FIO/GIN]
	V		34.0	298		[1927NAG]
	V		30.3	360		[1927SUT/LAY]
	V		29.2	378		[1927SUT/LAY]
	V		28.0	398		[1927SUT/LAY]
	V		33.9	293		[1896GRI/MAR]
	V		32.4	323		[1896GRI/MAR]
C_6D_6	[1076-43-3]	benzene - d_6				
	FUS		9.79	279.9	C	[1942ZIE/AND]
	V	(283–352)	34.2	298		[1953DAV/SCH]
C_6H_6	[821-08-9]	1,5-hexadien-3-yne				
	V	(223–357)	40.4	238	A	[1987STE/MAL]
C_6H_6	[10420-90-3]	1,3-hexadien-5-yne				
	V	(223–303)	44.0	238	A	[1987STE/MAL, 1954GEO/CAV]
C_6H_6	[2809-69-0]	2,4-hexadiyne				
	TRS	(3–300)	1.0	117.9		[1982BAL/MRA]
	SUB	(282–333)	47 ± 2	307	MM	[1982BAL/MRA]
	V	(364–408)	42.5	298	EB	[1986MEY/MEY]
C_6H_6BrN	[615-36-1]	2-bromoaniline				
	FUS		16.14	304.1	DSC	[2006RIB/FER]
	FUS		20.04	305		[1983KHA/KHE]
	SUB		75.0 ± 1.4	298	C	[2006RIB/FER]
C_6H_6BrN	[591-19-5]	3-bromoaniline				
	FUS		14.68	291		[1983KHA/KHE]
	V		63.4 ± 1.5	298	C	[2006RIB/FER]
C_6H_6BrN	[106-40-1]	4-bromoaniline				
	FUS		16.75	336	DSC	[2006RIB/FER]
	FUS		13.36	336		[1983KHA/KHE]
	SUB		79.4 ± 1.7	298	C	[2006RIB/FER]
C_6H_6ClN	[95-51-2]	2-chloroaniline				
	FUS		12.38	269.2	DSC	[2007STR/RUZ]
	FUS		8.81	271		[1983KHA/KHE]
	FUS		11.89	271.1	FPM	[1921SID/RUB]
	V		56.4 ± 1.6	298	C	[2005RIB/GOM]
	V	(288–327)	57.1 ± 0.5	298	GS	[2003VER/SCH]
	V	(397–482)	50.7	412	A	[1987STE/MAL]
	V	(287–336)	58.2 ± 1.4	311	TE, ME	[1985PIA/SCA]
	V	(294–330)	57.1 ± 1.0	312	TE, ME	[1985PIA/SCA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6H_6ClN	[108-42-9]	3-chloroaniline				
	FUS		12.0	263		[1983KHA/KHE]
	FUS		11.64	262.8	FPM	[1921SID/RUB]
	V		61.1 ± 2.8	298	C	[2005RIB/GOM]
	V	(291–340)	60.2 ± 0.1	298	GS	[2003VER/SCH]
	V	(398–573)	53.6	413	A	[1987STE/MAL, 1972DYK]
	V	(292–346)	60.3 ± 0.6	319	TE, ME	[1985PIA/SCA]
	V	(304–342)	61.0 ± 0.8	323	TE, ME	[1985PIA/SCA]
C_6H_6ClN	[106-47-8]	4-chloroaniline				
	FUS		20.47	342.8	DSC	[2007STR/RUZ]
	FUS		21.06	343.5	DSC	[2003VER/SCH]
	FUS		16.9	344		[1983KHA/KHE]
	FUS		20.1	343.7	FPM	[1921SID/RUB]
	SUB	(291–337)	80.5 ± 0.3	298	GS	[2003VER/SCH]
	SUB	(283–303)	90.7	293	ME	[1987STE/MAL, 1925SWA/MAC]
	V	(346–374)	62.3 ± 0.5	298	GS	[2003VER/SCH]
	V	(363–505)	52.2	378	A	[1987STE/MAL]
$C_6H_6Cl_4$	[41992-55-6]	α-3,4,5,6-tetrachlorocyclohexene				
	V	(353–399)	58.0	368	A	[1987STE/MAL]
$C_6H_6Cl_6$	[319-84-6]	(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane (α-hexachlorocyclohexane)				
	SUB	(313–363)	95.7	328	A	[1987STE/MAL, 1960JON]
	SUB	(324–344)	92.9	334	TE	[1947BAL]
	V	(343–453)	68.5	398	GC	[1990HIN/BID2]
$C_6H_6Cl_6$	[319-85-7]	β-hexachlorocyclohexane (mp 314 °C)				
	SUB	(506–551)	103.7			[1989LUB/JAN]
	SUB	(313–363)	107	328	A	[1987STE/MAL, 1960JON]
	SUB	(368–390)	102.9	379	TE	[1947BAL]
$C_6H_6Cl_6$	[58-89-9]	γ-hexachlorocyclohexane (lindane)				
	FUS		25.9	386.4	DSC	[1991SAB/AN]
	FUS		22.13	386.8	DSC	[1990DON/DRE]
	FUS		15.9	388.9	DSC	[1969PLA/GLA]
	SUB	(347–384)	89 ± 3	366		[2010VEC]
	SUB	(310–384)	92.4 ± 4.0	298	ME, TE	[1998GIU/BRU]
	SUB	(292–326)	97.7 ± 0.6	308	ME	[1996BOE/MAR]
	SUB	(243–303)	106.6 ± 0.9	273	GS	[1994WAN/SHU]
	SUB		90.1 ± 0.7	338	C	[1991SAB/AN]
	SUB		90.8 ± 0.7	298	C	[1991SAB/AN]
	SUB	(313–363)	99.2	328	A	[1987STE/MAL, 1960JON]
	SUB	(293–313)	88.9	303	GS	[1983SPE/CLI, 1970SPE/CLI]
	SUB	(293–313)	101.2	303		[1970SPE/CLI]
	SUB	(313–343)	89.7	328		[1960SCH/LEG]
	SUB	(333–365)	115.5		TE	[1947BAL]
	V	(387–428)	72 ± 2	408		[2010VEC]
	V	(343–453)	70.5	398	GC	[1990HIN/BID2]
$C_6H_6Cl_6$	[319-86-8]	δ-hexachlorocyclohexane (mp 142 °C)				
	SUB	(313–363)	97.3	328	A	[1987STE/MAL, 1960JON]
	SUB	(328–358)	97.5			[1947BAL]
C_6H_6FN	[348-54-9]	2-fluoroaniline				
	V		52.0 ± 0.6	298	C	[2007RIB/FER]
C_6H_6FN	[372-19-0]	3-fluoroaniline				
	V		54.7 ± 0.6	298	C	[2007RIB/FER]
C_6H_6FN	[371-40-4]	4-fluoroaniline				
	V		54.8 ± 0.8	298	C	[2007RIB/FER]
$C_6H_6F_8O$	[77527-96-9]	1,1,2,2,3,3,4,4-octafluoro-5-methoxypentane				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(293–396)	44.8	308	I	[2002MUR/YAM]
$C_6H_6F_8O_2$	[355-74-8]	2,2,3,3,4,4,5,5-octafluoro-1,6-hexanediol				
	SUB		89.2 ± 8.4			[1974COX, 1977PED/RYL]
$C_6H_6F_8O_3$	[485399-46-0]	1,1′-oxybis[1,1,2,2-tetrafluoro-2-methoxyethane]				
	V	(280–370)	33.4			[2005MAR/AVA]
$C_6H_6F_9N_3S$	[63265-76-9]	*N*-[*N*, *N*′-dimethyl-*S*-(trifluoromethyl)sulfonodiimidoyl]-1,1,1,3,3,3-hexafluoro-2-propanimine				
	V		32.6	426	I	[1977KIT/SHR2]
C_6H_6IN	[615-43-0]	2-iodoaniline				
	FUS		19.38	329.6	DSC	[2006RIB/FER2]
	FUS		13.95	333		[1983KHA/KHE]
	SUB		81.3 ± 1.4	298	C	[2006RIB/FER2]
C_6H_6IN	[626-01-7]	3-iodoaniline				
	FUS		14.0	295.7	DSC	[1992BAB/HWA]
	FUS		14.5	298		[1983KHA/KHE]
	V		67.5 ± 1.4	298	C	[2006RIB/FER2]
C_6H_6IN	[540-37-4]	4-iodoaniline				
	FUS		16.94	336	DSC	[2006RIB/FER2]
	FUS		15.1	334		[1983KHA/KHE]
	SUB		84.8 ± 1.4	298	C	[2006RIB/FER2]
$C_6H_6N_2$	[1119-85-3]	3-hexenedinitrile				
	V	(353–448)	49.4	368	A	[1987STE/MAL]
$C_6H_6N_2O$	[1452-77-3]	2-pyridinecarboxamide				
	FUS		19.1	379.3	DSC	[2011CAS/RIB]
	FUS		16.82	381		[1960NEG/MIK2]
	SUB		93.1 ± 3.3	298	C	[2001RIB/GON]
	SUB	(323–373)	93.1	338	ME	[1987STE/MAL, 1960NEG/MIK, 1959HAR]
$C_6H_6N_2O$	[98-92-0]	3-pyridinecarboxamide (nicotinamide)				
	FUS		23.7	401.2	DSC	[2015ALM/OLI]
	FUS		22.58	401.7	DSC	[2015SUN/YIN]
	FUS		20.5	401.6	DSC	[2014WU/DAN]
	FUS		25.4	401.2	DTA	[2013KAN]
	FUS		23.2	401.4	DSC	[2011CAS/RIB]
	FUS (I)		26.5	397.8	DSC	[2011LI/BOU2]
	FUS (II)		20.1	379.0	DSC	[2011LI/BOU2]
Note: Authors report a large uncertainty for form (I) corresponding to ± 3.7 kJ/mole						
	FUS		23.8	403.8	DSC	[2009GOO/ROD]
	FUS		25.5	401.6	DSC	[2008NIC/BEL]
	FUS		26.94	402		[1960NEG/MIK2]
	SUB	(341–363)	110.7 ± 0.2	352	ME	[2015ALM/OLI]
	SUB	(341–363)	112.0 ± 0.2	298	ME	[2015ALM/OLI]
	SUB	(356–398)	111.4 ± 0.1	377	DM	[2015ALM/OLI]
	SUB	(356–398)	113.2 ± 0.1	298	DM	[2015ALM/OLI]
	SUB		121.2 ± 3.3	298	C	[2001RIB/GON]
	SUB	(363–393)	111.8	378	ME	[1987STE/MAL, 1960NEG/MIK, 1959HAR]
	V	(396–433)	84.5 ± 0.1	415	DM	[2015ALM/OLI]
	V	(396–433)	93.9 ± 1.9	298	DM	[2015ALM/OLI]
$C_6H_6N_2O$	[1453-82-3]	4-pyridinecarboxamide				
	FUS		23.6	429.8	DSC	[2016VOL/BLO]
	FUS		24.5	428.6	DSC	[2011CAS/RIB]
	FUS		26.81	431		[1960NEG/MIK2]
	SUB	(351–377)	117.0 ± 1.0	298	GS	[2016VOL/BLO]
	SUB		116.1 ± 1.5	298	C	[2001RIB/GON]
	SUB	(383–412)	99.9	397.5	ME	[1987STE/MAL, 1960NEG/MIK, 1959HAR]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_6N_2O$	[873-69-8]	2-pyridinealdoxime				
	FUS		19.98	388	DSC	[2007SHI/TAN3]
$C_6H_6N_2O_2$	[88-74-4]	2-nitroaniline				
	FUS		19.25	342.8	DSC	[2015SIN/SIN]
	FUS		19.3	345.7	DSC	[1989OZA/MAT]
	FUS		16.11	344.4		[1996DOM/HEA, 1926AND/LYN]
	FUS		15.5	342.5	C	[1925KOH]
	SUB	(303–338)	87.8		TGA	[2011FEL/RAM]
	SUB	(313–342)	89.0 ± 0.7	298	GS	[1997VER3]
	SUB	(313–342)	87.2 ± 0.7	328	GS	[1997VER3]
	SUB		90 ± 3.0		ME, TE	[1985FER/PIA]
	SUB		82.4 ± 2	313		[1938WOL/WEG, 1960JON, 1935TRI]
	SUB		90 ± 4.2			[1958HOY/PEP, 1970COX/PIL]
	SUB	(310–319)	79.9 ± 1.7			[1934WOL/TRI]
	V	(423–553)	59.3	438	A	[1987STE/MAL]
	V	(377–558)	64.8	392		[1947STU]
$C_6H_6N_2O_2$	[99-09-2]	3-nitroaniline				
	FUS		23.10	384.6	DSC	[2014TU/CHE]
	FUS		23.68	387.2	DSC	[1996DOM/HEA, 1990SIN/GUP]
	FUS		22.8	385.0	DSC	[1989OZA/MAT]
	FUS		23.68	385.0		[1926AND/LYN]
	FUS		23.4	385.0	C	[1925KOH]
	SUB	(323–383)	93.6		TGA	[2011FEL/RAM]
	SUB		108.3 ± 3		ME, TE	[1985FER/PIA]
	SUB	(320–384)	93.6 ± 0.7	351	ME	[1973MAL/GIG2]
	SUB	(320–384)	94.6 ± 0.3	351	C	[1973MAL/GIG2]
	SUB		96.5 ± 0.3	298	C	[1973MAL/GIG2]
	SUB	(288–343)	97.6	316	ME	[1958HOY/PEP, 1970COX/PIL]
	SUB	(332–341)	88.3 ± 1.7		TE	[1934WOL/TRI]
	SUB	(332–341)	88.7 ± 2.5			[1938WOL/WEG, 1960JON, 1935TRI]
	V	(443–578)	64.9	458	A	[1985FER/PIA]
$C_6H_6N_2O_2$	[100-01-6]	4-nitroaniline				
	FUS		24.0	422.0	DSC	[1989OZA/MAT]
	FUS		21.09	420.2		[1996DOM/HEA, 1926AND/LYN]
	FUS		21.3	420.7	C	[1925KOH]
	SUB		98.0		TGA	[2011FEL/RAM]
	SUB	(298–318)	98.3	308	GC	[2002SAW/SHI]
	SUB		101.4 ± 1.3	298	ME	[1990RIB/RIB]
	SUB		101.5 ± 1.7	298	TE	[1990RIB/RIB]
	SUB		94.6		GS	[1987SHI/OHK, 1991HOR]
	SUB		107 ± 3		ME, TE	[1985FER/PIA]
	SUB		100.4 ± 2.1	298	ME	[1977FRA, 1990RIB/RIB]
	SUB		100.9 ± 0.6	298	ME	[1973MAL/GIG2]
	SUB		101.3 ± 0.7	298	C	[1973MAL/GIG2]
	SUB	(303–363)	109.3	333	ME	[1958HOY/PEP, 1970COX/PIL]
	SUB		99.3 ± 1.7	298	ME	[1956MAJ]
	SUB	(346–366)	97.5 ± 1.7	356	ME	[1956MAJ]
	SUB		100.7 ± 2.5	298	TE	[1938WOL/WEG]
	SUB		98.7 ± 2.5	361	TE	[1938WOL/WEG, 1960JON]
	SUB	(357–367)	103.3 ± 1.7	362		[1934WOL/TRI]
	V	(473–538)	77.9	488	A	[1987STE/MAL]
	V	(415–609)	70.0	430		[1947STU]
$C_6H_6N_2O_2$	[1986-81-8]	3-pyridinecarboxamide *N*-oxide				
	SUB		119.2 ± 2.3	298	ME	[2001RIB/GON]
$C_6H_6N_2O_2$	[38557-82-3]	4-pyridinecarboxamide *N*-oxide				
	SUB		125.3 ± 1.8	298	ME	[2001RIB/GON]
$C_6H_6N_2O_2$	[5521-55-1]	2-methyl-5-pyrazine carboxylic acid				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		100.9 ± 1.5	298	C	[1997ACR/POW]
$C_6H_6N_2O_2$	[1445-69-8]	phthalhydrazide				
	SUB	(428–450)	132.7 ± 0.7	439	ME	[2008RIB/CAB2]
	SUB	(428–450)	139.8 ± 0.7	298	ME	[2008RIB/CAB2]
$C_6H_6N_2O_3$	[1074-98-2]	3-methyl-4-nitropyridine *N*-oxide				
	SUB	(345–392)	106.7 ± 2.0	298	ME	[1998RIB/MAT]
$C_6H_6N_2S$	[5346-38-3]	2-pyridinecarbothioamide				
	FUS		25.3	407.0	DSC	[2015BLO/SHA2]
	SUB	(334–355)	86.3 ± 1.1	344	GS	[2015BLO/SHA2]
	SUB	(334–355)	87.3 ± 1.1	298	GS	[2015BLO/SHA2]
$C_6H_6N_2S$	[2196-13-6]	4-pyridinecarbothioamide				
	SUB	(373–394)	116.6 ± 1.4	383	GS	[2015BLO/SHA]
	SUB	(373–394)	118.8 ± 1.4	298	GS	[2015BLO/SHA]
$C_6H_6N_4O$	[1006-08-2]	7-methylhypoxanthine				
	SUB		100.4 ± 13			[1978NOW/SZC]
$C_6H_6N_4O$	[875-31-0]	9-methylhypoxanthine				
	SUB	(500–552)	84.0		HSA	[1965CLA/PES]
$C_6H_6N_4O_4$	[119-26-6]	(2,4-dinitrophenyl)hydrazine				
	FUS		18.89	474.1	DSC	[2002MUS/RAZ]
$C_6H_6N_6O_6$	[3058-38-6]	2,4,6-trinitro-1,3,5-benzenetriamine				
	SUB		182.4		DSC	[1990HWA/YOS]
	SUB		168	423		[2008RAI/BHA, 1979GAR/LAW]
	SUB	(402–451)	168.2	417	LE	[1987STE/MAL, 1969ROS/DIC]
$C_6H_6N_6O_{14}$	[866-65-9]	2,2,2-trinitroethyl 4,4,4-trinitrobutyrate				
	TRS		25.94	362.7		
	FUS		6.69	366.5	DSC	[1971ROS/HOL]
$C_6H_6N_{12}O_{12}$	[135285-90-4]	hexanitrohexaazaisowurtzitane				
	TRS		1.97	428.2		
	TRS		5.91	435.2		
	FUS		Not reported		DSC, TGA	[2005TUR/VAC]
	TRS		7.25	442.2		
	FUS		Not reported		DSC	[1998LOB/BOH]
	SUB		226.8 ± 4.6	298	C	[2009MIR/KON]

Note: Authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.

C_6H_6O	[108-95-2]	phenol				
	FUS		10.54	314.2	DSC	[2014HAS/JIR]
	FUS		11.49	314.1	DSC	[1991WYR/PAL]
	FUS		11.51	314		[1972INO/LIA, 1996DOM/HEA]
	FUS	(13–335)	11.5	314.06	AC	[1963AND/COU2]
	FUS		11.3		RC	[1927STE/JOH]
	FUS		11.4		AC	[1922STR/PAR, 1927STE/JOH]
	FUS		11.8			[1915BRI, 1927STE/JOH]
	SUB	(263–298)	65.3 ± 3.3	280	HSA	[1975CHI]
	SUB	(230–273)	69.7 ± 0.9	298	ME	[1971PAR/ROC]
	SUB	(282–313)	68.7 ± 0.5		GS	[1960AND/BID, 1970COX/PIL]
	SUB	(283–303)	68.2	293	ME	[1958SKL/MAR]
	SUB	(273–310)	64.8	292		[1958BID/MAR]
	SUB	(270–313)	68.1	292		[1948NIT/SEK2]
	SUB	(278–305)	67.8		TE	[1947BAL, 1960JON]
	V	(363–391)	53.2	378	EB	[2001CHY/FRA]
	V	(393–433)	58.8	298	CGC	[1995CHI/HOS]
	V	(455–655)	49.5	470	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(314–395)	57.4	329	A	[1987STE/MAL]
	V	(387–456)	50.9	402	A	[1987STE/MAL]
	V	(449–526)	46.8	464	A	[1987STE/MAL]
	V	(520–625)	43.8	535	A	[1987STE/MAL]
	V		51.1			[1986BAL/GNA]
	V	(383–473)	51.3	398	EB, GS	[1987STE/MAL, 1960AND/BID, 1972DYK, 1958BID/MAR]
	V	(380–455)	51.4	395		[1949DRE/SHR, 1949DRE/MAR, 1984BOU/FRI]
	V	(414–454)	48.1	434		[1947GOL/MAR]
	V	(278–305)	67.8	291		[1947BAL2]
C_6H_6O	[1192-62-7]	2-acetylfuran				
	FUS		15.5	301.6	DSC	[2009FLO/CAM]
	V		53.0 ± 0.6	298	C	[2009RIB/AMA]
C_6H_6OS	[88-15-3]	2-acetylthiophene				
	V		58.8 ± 1.2	298	C	[2007ROU/TEM]
	V		55.4 ± 5.4	298	CGC	[2007ROU/TEM]
C_6H_6OS	[1468-83-3]	3-acetylthiophene				
	FUS		18.9	333.6	DSC	[2006TEM/ROU]
	SUB	(268–284)	74.6 ± 1.1	298	ME	[2007ROU/TEM]
	V		55.2	298	CGC	[2007ROU/TEM]
C_6H_6OS	[13679-70-4]	5-methyl-2-thiophenecarboxyaldehyde				
	V		57.7 ± 1.3	298	C	[2008RIB/SAN2]
C_6H_6OS	[5834-16-2]	3-methyl-2-thiophenecarboxyaldehyde				
	V		56.2 ± 1.2	298	C	[2008RIB/SAN2]
$C_6H_6O_2$	[620-02-0]	5-methyl-2-furaldehyde				
	V	(303–443)	49.7	373		[2014LOM/GIN2]
	V		59.4 ± 0.2	298	C	[2010RIB/AMA]
$C_6H_6O_2$	[120-80-9]	1,2-dihydroxybenzene (catechol)				
	FUS		22.87	377.6	DSC	[2008VER/KOZ]
	FUS		18.55	377.6		[2000VER/SCH]
	FUS		22.54	377.7	DSC	[1997LEE/CHA]
	FUS		22.74	377.7	DTA	[1992MAN]
	FUS		22.01	376.9	DSC	[1989BRE/LIC]
	FUS		22.8	375.2	DTA	[1958VAR]
	FUS		22.76	377.5	C	[1926AND/LYN]
	SUB		88.3 ± 0.3	298	C	[2014GON/AGA]
	SUB		87.5 ± 0.3	332	C	[2014GON/AGA]
	SUB	(295–310)	80.0 ± 0.5	302	ME	[2006CHE/OJA]
	SUB		87.5 ± 0.3	298	C	[1991SAB/BUL]
	SUB		86.6 ± 1.6	298	C	[1984CAR]
	SUB		80.8			[1938WOL/WEG, 1960JON, 1935TRI]
	V	(378–389)	71.9 ± 0.8	298	GS	[2008VER/KOZ]
	V	(395–519)	63.1	410	A	[1987STE/MAL]
	V	(378–439)	61.2	393	GC	[1975KUN/LIL]
$C_6H_6O_2$	[108-46-3]	1,3-dihydroxybenzene (resorcinol)				
	FUS		27.93	383.9	DSC	[2015OSS/JUS]
	FUS		19.28	382.3	DSC	[2015SIN/SIN3]
	FUS		21.68	383.2	DTA	[1992MAN]
	TRS		1.2	366.8		
	FUS		18.9	382.6	DSC	[1989BRE/LIC]
	TRS		1.37	369.0		
	FUS		20.89	382.7	DSC	[1987EBI/ASK]
	FUS		21.3	382.9	C	[1926AND/LYN]
	SUB		99.7 ± 0.4	298	C	[2014GON/AGA]
	SUB		99.3 ± 0.4	328	C	[2014GON/AGA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		85.3 ± 0.5	334	C	[1991SAB/BUL]
	SUB		87.5 ± 0.5	298	C	[1991SAB/BUL]
	SUB	(328–379)	92.3	353	GS	[1983BEN/BIE]
	SUB	(324–335)	93.3 ± 2.1			[1968DES/WIL]
	SUB	(283–323)	93.4	303		[1958HOY/PEP]
	SUB		95.4 ± 1.7			[1938WOL/WEG, 1960JON, 1935TRI]
	V		78.4 ± 1.3	298		[2008VER/KOZ]
	V	(419–550)	74.3	434	A	[1987STE/MAL]
	V	(392–463)	74.3	407	GC	[1987STE/MAL, 1975KUN/LIL]
$C_6H_6O_2$	[123-31-9]	1,4-dihydroxybenzene (hydroquinone)				
	FUS		27.23	445.1	DSC	[2008VER/KOZ]
	FUS		27.2		DSC	[1999VER7]
	FUS		26.48	453	DSC	[1989BRE/LIC]
	FUS		27.11	445.1	C	[1926AND/LYN]
	SUB		102.0 ± 0.9	298	C	[2014GON/AGA]
	SUB		101.6 ± 0.9	328	C	[2014GON/AGA]
	SUB	(325–339)	100.6 ± 1.3	332	ME	[2006CHE/OJA]
	SUB		94.1 ± 0.5	298	C	[1991SAB/BUL]
	SUB		93.7 ± 0.5	334	C	[1991SAB/BUL]
	SUB	(341–400)	101.3		GS	[1983BEN/BIE]
	SUB		103.9 ± 1	342	ME, TE	[1981DEK/SMI]
	SUB	(298–346)	103.8	313		[1956MAG]
	SUB		90.1 ± 0.8			[1953SEK/SUZ]
	SUB	(326–345)	103.8		QF	[1927COO/COO]
	V		84.4 ± 0.7	298		[2008VER/KOZ]
	V	(448–559)	70.5	463	A	[1987STE/MAL]
$(C_6H_6O_2)$-$(C_{10}H_80_2)$	[60706-28-7]	1,4-hydroquinone-1,4-naphthoquinone				
	SUB		98.7 ± 1	324	TE, ME	[1981DEK/SMI]
$C_6H_6O_2S$	[1918-77-0]	2-thiopheneacetic acid				
	FUS	(78–343)	16.26	335.7	AC	[2010GAO/SHI]
	FUS		14.0	337.4	DSC	[2006TEM/ROU]
	SUB	(292–307)	97.5 ± 1.4	298	ME	[2008TEM/ROU2]
$C_6H_6O_2S$	[6964-21-2]	3-thiopheneacetic acid				
	FUS		18.8	353.3	DSC	[2006TEM/ROU]
	SUB	(294–312)	100.9 ± 1.9	298	ME	[2008TEM/ROU2]
$C_6H_6O_2S$	[5380-42-7]	methyl 2-thiophenecarboxylate				
	V		57.6 ± 1.2	298	C	[2009RIB/SAN2]
$C_6H_6O_2S$	[23806-24-8]	methyl 2-thiophenecarboxylate				
	SUB	(312–334)	96.7 ± 0.4	323.2	ME	[2008RIB/SAN5]
	SUB	(312–334)	98.0 ± 0.4	298	ME	[2008RIB/SAN5]
$C_6H_6O_2S$	[1918-79-2]	5-methyl-2-thiophenecarboxylic acid				
	SUB	(316–338)	100.4 ± 0.3	327.2	ME	[2008RIB/SAN5]
	SUB	(316–338)	101.9 ± 0.3	298	ME	[2008RIB/SAN5]
$C_6H_6O_3$	[87-66-1]	1,2,3-trihydroxybenzene (pyrogallol)				
	FUS		23.9	406.2	DSC	[2012SHA/RED]
	FUS		25.9	405.6	DSC	[2004VER/SCH]
	FUS		18.55	407.2	DSC	[1992RAI/GEO]
	SUB	(326–370)	104	298	GS	[2004VER/SCH]
	SUB		116.9 ± 0.6	298	C	[1986RIB/RIB]
	SUB	(377–398)	89.1	387		[1934HIR]
	V	(425–582)	69.5	440	A	[1987STE/MAL, 1955VON/GEB]
$C_6H_6O_3$	[533-73-3]	1,2,4-trihydroxybenzene				
	FUS		28.8	413.2	DSC	[2004VER/SCH]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(341–382)	124.2 ± 0.6	298	GS	[2004VER/SCH]
	SUB		119.8 ± 1.6	298	C	[1986RIB/RIB]
$C_6H_6O_3$	[108-73-6]	1,3,5-trihydroxybenzene				
	FUS		34.5	491.8	DSC	[2004VER/SCH]
	SUB	(355–382)	135.5 ± 1.3	298	GS	[2004VER/SCH]
	SUB		131.7 ± 1.0	298	C	[1986RIB/RIB]
	SUB	(383–406)	127.9		TE, ME	[1983DEW/BOW]
$C_6H_6O_3$	[67-47-0]	5-hydroxymethylfurfural				
	FUS		19.8	308.5	DSC	[2009VER/EME]
	V	(314–368)	83.4 ± 0.2	298	GS	[2009VER/EME]
$C_6H_6O_4$	[762-42-5]	butynedioic acid, dimethyl ester				
	V	(273–460)	56.3	288	A	[1987STE/MAL, 1972DYK, 1948RED/CHA5]
C_6H_6S	[108-98-5]	benzenethiol (thiophenol)				
	FUS		11.48	258.2		[1996DOM/HEA, 1936PAR/TOD]
	V	(333–471)	45.9	348		[1999DYK/SVO]
	V		43.5			[1986BAL/GNA]
	V	(385–486)	43.1	400	A, EB	[1987STE/MAL, 1966OSB/DOU, 1956SCO/MCC]
	V		43.8 ± 0.1	375	C	[1956SCO/MCC]
	V		42.6 ± 0.1	395	C	[1956SCO/MCC]
	V		41.8 ± 0.1	407	C	[1956SCO/MCC]
	V		41.3 ± 0.1	417	C	[1956SCO/MCC]
	V		47.5 ± 0.1	298	C	[1963MOR/SUN]
	V	(324–440)	44.3	339		[1955VON/GEB, 1984BOU/FRI]
$C_6H_7Cl_2N$	[137-04-2]	2-chloroaniline hydrochloride				
	SUB	(373–473)	77.6	388	A	[1987STE/MAL, 1975KON/SEL]
$C_6H_7BrN_2O_2$	[7033-39-8]	1,3-dimethyl-5-bromouracil				
	SUB	(293–333)	114.4 ± 0.7	314	ME	[2015BRU/IRR]
	SUB	(293–333)	114.9	298	ME	[2015BRU/IRR]
	SUB	(328–360)	110.3 ± 0.5	344	ME	[2015BRU/IRR]
	SUB	(328–360)	111.9	298	ME	[2015BRU/IRR]
$C_6H_7Cl_2N$	[141-85-5]	3-chloroaniline hydrochloride				
	SUB	(383–473)	71.3	398	A	[1987STE/MAL, 1975KON/SEL]
$C_6H_7Cl_2N$	[20265-96-7]	4-chloroaniline hydrochloride				
	SUB	(373–483)	77.8	388	A	[1987STE/MAL, 1975KON/SEL]
$C_6H_7Cl_3OS$	[76619-93-7]	2,3,3-trichloro-2-propenethioic acid, *O*-propyl ester				
	V	(383–433)	69.4		GC	[1980PIT/KIS]
$C_6H_7FN_2O_2$	[3013-92-1]	1,3-dimethyl-5-fluorouracil				
	SUB	(288–326)	98.4 ± 0.7	305	ME	[2015BRU/IRR]
	SUB	(288–326)	98.6	298	ME	[2015BRU/IRR]
	SUB	(315–355)	96.5 ± 0.5	335	ME	[2015BRU/IRR]
	SUB	(315–355)	97.6	298	ME	[2015BRU/IRR]
	SUB	(317–339)	95.9 ± 0.6	328	ME	[2014AMA/SZT]
	SUB	(317–339)	96.8 ± 0.6	298	ME	[2014AMA/SZT]
	SUB	(338–373)	119 ± 4		TE	[2002BRU/POR]
$C_6H_7F_3N_2O_4$	[400-58-8]	*N*-[*N*-(trifluoroacetyl)glycyl]glycine				
	SUB	(273–423)	67.0	288	A	[1987STE/MAL, 1960WEY/KLI]
$C_6H_7IN_2O_2$	[40738-83-8]	1,3-dimethyl-5-iodouracil				
	SUB	(323–367)	116.2 ± 0.9	345	ME	[2015BRU/IRR]
	SUB	(323–367)	117.8	298	ME	[2015BRU/IRR]
	SUB	(354–392)	116.7 ± 0.7	373	ME	[2015BRU/IRR]
	SUB	(354–392)	119.3	298	ME	[2015BRU/IRR]
C_6H_7N	[15760-35-7]	3-methylenecyclobutanecarbonitrile				
	V	(348–435)	45.9	366	BG	[1971HAL/BAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6H_7N	[31357-71-8]	bicyclo[2.1.0]pentane-1-carbonitrile				
	V	(332–390)	41.8	343	BG	[1971HAL/BAL]
C_6H_7N	[62-53-3]	aniline				
	FUS		9.16	265	DSC	[1972AHM/EAD2]
	FUS	(14–313)	10.54	267.1		[1962HAT/HIL, 1996DOM/HEA]
	FUS		10.92	267.3	C	[1942ZIE/AND]
	FUS		10.56	266.8		[1933PAR/HUF]
	V	(350–499)	51.0 ± 0.2	360	EB	[2002STE/CHI]
	V	(350–499)	48.0 ± 0.2	400	EB	[2002STE/CHI]
	V	(350–499)	45.2 ± 0.2	440	EB	[2002STE/CHI]
	V	(350–499)	42.2 ± 0.4	480	EB	[2002STE/CHI]
	V	(421–591)	45.8	444		[1992LEE/CHE]
	V	(273–338)	52.2	288	A	[1987STE/MAL]
	V	(304–485)	53.6	319	A	[1987STE/MAL]
	V	(373–458)	48.6	388	A	[1987STE/MAL]
	V	(455–523)	46.3	470	A	[1987STE/MAL]
	V	(313–386)	51.4	350		[1979MAH/SMI]
	V		55.8 ± 0.1	298	C	[1971KUS/WAD2]
	V	(288–298)	52.9	293		[1968RAV/DAN]
	V	(304–457)	54.0	319		[1962HAT/HIL]
	V		53.0	333	C	[1962HAT/HIL]
	V		40.4	456	C	[1923AWB/GRI]
C_6H_7N	[109-06-8]	2-methylpyridine				
	FUS		9.72	206.5		[1996DOM/HEA, 1963SCO/HUB]
	V	(308–441)	41.2 ± 0.1	320	EB	[1999CHI/KNI]
	V	(308–441)	38.8 ± 0.1	360	EB	[1999CHI/KNI]
	V	(308–441)	36.4 ± 0.1	400	EB	[1999CHI/KNI]
	V	(308–441)	33.7 ± 0.3	440	EB	[1999CHI/KNI]
	V	(323–373)	43.6	298	CGC	[1995CHI/HOS]
	V	(292–403)	42.0	307	EB	[1990LEN]
	V	(209–245)	46.9	230	A	[1987STE/MAL]
	V	(429–537)	36.5	444	A	[1987STE/MAL]
	V	(521–621)	35.4	536	A	[1987STE/MAL]
	V		42.5 ± 0.1	298	C	[1984MAJ/SVO2]
	V		41.6 ± 0.1	313	C	[1984MAJ/SVO2]
	V		40.7 ± 0.1	328	C	[1984MAJ/SVO2]
	V		39.8 ± 0.1	343	C	[1984MAJ/SVO2]
	V		38.3 ± 0.1	368	C	[1984MAJ/SVO2]
	V	(352–445)	39.1	367	EB, IPM	[1987STE/MAL, 1968OSB/DOU]
	V	(352–442)	39.1	367	EB	[1987STE/MAL, 1963SCO/HUB]
	V		38.8 ± 0.1	359	C	[1963SCO/HUB]
	V		37.7 ± 0.1	379	C	[1963SCO/HUB]
	V		36.2 ± 0.1	402	C	[1963SCO/HUB]
	V	(337–403)	39.8	352	MG	[1953HER/MAR]
	V		35.4	402	C	[1901KAH]
C_6H_7N	[108-99-6]	3-methylpyridine				
	FUS		14.18	255		[1996DOM/HEA, 1963SCO/GOO]
	SUB	(225–255)	62.2	240	A	[1987STE/MAL]
	V	(342–373)	44.5 ± 2.0	298	CGC	[2009LIP/CHI2]
	V	(314–457)	43.2 ± 0.1	320	EB	[1999CHI/KNI]
	V	(314–457)	40.9 ± 0.1	360	EB	[1999CHI/KNI]
	V	(314–457)	38.6 ± 0.1	400	EB	[1999CHI/KNI]
	V	(314–457)	36.1 ± 0.2	440	EB	[1999CHI/KNI]
	V	(374–458)	40.1	389	A	[1987STE/MAL]
	V	(450–570)	37.7	465	A	[1987STE/MAL]
	V	(561–645)	36.8	576	A	[1987STE/MAL]
	V		44.6 ± 0.1	298	C	[1984MAJ/SVO2]
	V		43.6 ± 0.1	313	C	[1984MAJ/SVO2]
	V		42.7 ± 0.1	328	C	[1984MAJ/SVO2]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		42.0 ± 0.1	343	C	[1984MAJ/SVO2]
	V		40.4 ± 0.1	368	C	[1984MAJ/SVO2]
	V	(347–458)	41.3	362	EB, IPM	[1987STE/MAL, 1968OSB/DOU]
	V	(347–458)	41.3	362	EB	[1987STE/MAL, 1963SCO/GOO]
	V		40.2 ± 0.1	372	C	[1963SCO/GOO]
	V		38.9 ± 0.1	393	C	[1963SCO/GOO]
	V		37.4 ± 0.1	417	C	[1963SCO/GOO]
	V	(354–418)	41.0	369	MG	[1953HER/MAR]
C_6H_7N	[108-89-4]	4-methylpyridine				
	SUB	(213–239)	62.7	226	A	[1987STE/MAL]
	V	(328–459)	43.4 ± 0.1	320	EB	[1999CHI/KNI]
	V	(328–459)	41.1 ± 0.1	360	EB	[1999CHI/KNI]
	V	(328–459)	38.8 ± 0.1	400	EB	[1999CHI/KNI]
	V	(328–459)	36.2 ± 0.2	440	EB	[1999CHI/KNI]
	V	(323–373)	44.7	298	CGC	[1995CHI/HOS]
	V	(348–460)	41.4	363	A	[1987STE/MAL]
	V	(348–367)	42.1	347	A	[1987STE/MAL]
	V	(381–460)	40.0	396	A	[1987STE/MAL]
	V	(452–573)	37.9	467	A	[1987STE/MAL]
	V	(564–646)	37.2	579	A	[1987STE/MAL]
	V		44.9 ± 0.1	298	C	[1984MAJ/SVO2]
	V		43.9 ± 0.1	313	C	[1984MAJ/SVO2]
	V		42.9 ± 0.1	328	C	[1984MAJ/SVO2]
	V		42.1 ± 0.1	343	C	[1984MAJ/SVO2]
	V		44.8 ± 0.1	298	C	[1981HOS/SCO]
	V	(283–298)	45.5	298		[1979ARN/CHA]
	V	(348–459)	41.4	363	EB, IPM	[1987STE/MAL, 1968OSB/DOU]
	V	(350–418)	41.3	365	MG	[1953HER/MAR]
C_6H_7N	[26555-56-6]	2-cyclopentene-1-carbonitrile				
	V		44.9 ± 0.1	298	C	[1970PRO/KRE]
(C_6H_7N)-(SO_2)		aniline-sulfur dioxide complex				
	SUB	(277–323)	82.1	300		[1931HIL]
C_6H_7NO	[95-55-6]	2-aminophenol				
	FUS		26.74	448.7	DSC	[2011MEL/PIN]
	FUS		21.72	447.6		[2003HUA, 2005HUA/TAN]
	FUS		31.4	443.2	DSC	[2001ROT/GLA]
	FUS		25.4	449.2	DSC	[1996SAB/GOU]
	FUS		34.0	447.4	DSC	[1996DOM/HEA, 1989BRE/LIC]
	SUB		93.5 ± 0.8	332	C	[1996SAB/GOU]
	SUB		95.3 ± 0.7	337	C	[1996SAB/GOU]
	SUB		96.9 ± 0.6	298	C	[1996SAB/GOU]
	SUB		103.9 ± 0.9	298	C	[1986NUN/BAR]
C_6H_7NO	[591-27-5]	3-aminophenol				
	FUS		27.6	395.0	DSC	[2012SHA/RAI]
	FUS		21.95	396.8		[2003HUA, 2005HUA/TAN]
	FUS		23.9	390.7	DSC	[2001ROT/GLA]
	FUS		19.6	394.8	DSC	[1996SAB/GOU]
	FUS		22.98	399		[1991RAI/GEO]
	FUS		24.7	394.2	DSC	[1989BRE/LIC]
	SUB		98.8 ± 0.9	335	C	[1996SAB/GOU]
	SUB		101.6 ± 0.9	298	C	[1996SAB/GOU]
	SUB		104.7 ± 1.2	298	C	[1986NUN/BAR]
C_6H_7NO	[123-30-8]	4-aminophenol				
	FUS		29.26	463.5	DSC	[2002FAR/KAD]
	FUS		23.8	455.2	DSC	[2001ROT/GLA]
	FUS		26.0	462.5		[1996SAB/GOU]
	FUS		31.2	459.4	DSC	[1989BRE/LIC, 1996DOM/HEA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		101.1 ± 0.7	335	C	[1996SAB/GOU]
	SUB		103.6 ± 0.7	298	C	[1996SAB/GOU]
	SUB	(423–459)	111.0	438	A	[1987STE/MAL]
	SUB		109.1 ± 1.4	298	C	[1986NUN/BAR]
	SUB	(403–430)	92.1	417	I	[1954DUN, 1960JON]
C_6H_7NO	[1121-25-1]	2-methyl-3-hydroxypyridine				
	SUB		89.3 ± 1.3	298	C	[1982SUR/SAI, 1986PED/NAY]
C_6H_7NO	[18615-86-6]	2-methyl-4-hydroxypyridine				
	SUB		113.0 ± 1.3	298		[1982SUR/SAI, 1986PED/NAY]
C_6H_7NO	[1121-78-4]	2-methyl-5-hydroxypyridine				
	SUB		96.2 ± 2.1	298	C	[1982SUR/SAI, 1986PED/NAY]
C_6H_7NO	[3279-76-3]	2-methyl-6-hydroxypyridine				
	SUB		92.0 ± 1.3	298	C	[1982SUR/SAI, 1986PED/NAY]
C_6H_7NO	[931-19-1]	2-methylpyridine *N*-oxide				
	SUB		92.9 ± 1.9	298	C	[2010CAB/MON]
	SUB		78.2 ± 2.2	298	C	[1995ACR/TUC]
	V	(329–355)	53.3 ± 0.5	298		[2010CAB/MON]
C_6H_7NO	[1003-73-2]	3-methylpyridine *N*-oxide				
	SUB		82.2 ± 2.4	298	C	[1995ACR/TUC]
C_6H_7NO	[1003-67-4]	4-methylpyridine *N*-oxide				
	SUB	(345–392)	85.3 ± 2.6	298	ME	[1998RIB/MAT]
	SUB	(316–341)	79.1 ± 1.3			[1995LEB/CHI]
C_6H_7NO	[1628-89-3]	2-methoxypyridine				
	V		45.1 ± 1.3	298	C	[2012AMA/RIB]
	V	(233–323)	41.8	298	ME	[1991AUE/WEB]
	V	(304–338)	40.5	319	A	[1987STE/MAL, 1974BEA/MUE]
C_6H_7NO	[620-08-6]	4-methoxypyridine				
	V		57.4 ± 1.3	298	C	[2012AMA/RIB]
	V	(233–323)	52.7	298	ME	[1991AUE/WEB]

Note: Authors of [1991AUE/WEB] refer to the value as an enthalpy of vaporization. The compound's melting point temperature falls within the temperature range of the measured VPs.

C_6H_7NO	[694-85-9]	1-methyl-2(1*H*)-pyridone				
	V	(353–399)	60.2	368	A	[1987STE/MAL, 1974BEA/MUE]
C_6H_7NO	[586-95-8]	4-pyridinemethanol				
	FUS	(79–380)	11.78	325.2	AC	[2005WAN/TAN]
C_6H_7NO	[1072-83-9]	2-acetylpyrrole				
	FUS		14.08	363	DSC	[2009FLO/CAM]
	SUB	(277–293)	81.3 ± 1.0	285	ME	[2009SAN/GOM]
	SUB	(277–293)	81.2 ± 1.0	298	ME	[2009SAN/GOM]
C_6H_7NO	[1072-82-8]	3-acetylpyrrole				
	SUB	(316–338)	93.2 ± 0.5	327	ME	[2009SAN/GOM]
	SUB	(316–338)	94.7 ± 0.5	298	ME	[2009SAN/GOM]
$C_6H_7NO_2$	[7085-85-0]	ethyl α-cyanoacrylate				
	FUS	(13–330)	12.86	243.2	AC	[1991BYK/KIP]
$C_6H_7NO_2$	[6973-60-0]	1-methyl-2-pyrrolecarboxylic acid				
	SUB	(305–327)	95.3 ± 0.7	316	ME	[2009SAN/RIB]
	SUB	(305–327)	96.2 ± 0.7	298	ME	[2009SAN/RIB]
$C_6H_7NO_2$	[4277-63-8]	methyl 1-pyrrolecarboxylate				
	V		52.6 ± 1.1	298	C	[2013SAN/RIB4]
$C_6H_7NO_2$	[1193-62-0]	methyl 2-pyrrolecarboxylate				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		85.4 ± 1.6	298	C	[2013SAN/RIB4]
$C_6H_7NO_2S$	[98-10-2]	benzenesulfonamide				
	FUS		25.17	425.8	DSC	[2005MAT/MIR]
	SUB		115.3 ± 1.7	298	C	[2005MAT/MIR]
$C_6H_7NO_3S$	[121-57-3]	sulfanilic acid (4-aminobenzene sulfonic acid)				
	SUB		66.9			[1938WOL/WEG, 1960JON]
C_6H_7NS	[22581-72-2]	4-(methylthio)pyridine				
	FUS		17.57			[1974BEA/MUE]
	SUB	(347–383)	75.3 ± 3.8	365	B	[1974BEA/MUE]
	V	(346–383)	55.8	361	A	[1987STE/MAL, 1974BEA/MUE]
C_6H_7NS	[6887-59-8]	1-methyl-4-thiopyridone				
	FUS		15.90			[1974BEA/MUE]
	SUB	(440–465)	188.3 ± 9.2	452	B	[1974BEA/MUE]
$C_6H_7N_3O$	[54-85-3]	4-pyridinecarbonylhydrazine				
	FUS		31.1	446.2	DSC	[2015BLO/SHA]
	FUS		27.91	445.8	DSC	[2012FOR/MEL, 2013MEL/BOG]
	FUS		28.39	445.1	DSC	[2009FRE/ARA]
	SUB	(358–382)	101.0 ± 1.1	298	GS	[2015BLO/SHA]
$C_6H_7N_3O_2$	[3034-19-3]	2-hydrazino-1-nitrobenzene				
	SUB		124.7		DSC	[1990HWA/YOS]
	V		99.6		DSC	[1990HWA/YOS]
$C_6H_7N_5$	[5142-22-3]	1-methyladenine				
	SUB	(443–465)	139.4 ± 5.1	454	ME	[2000ZIE]
	SUB	(446–484)	136.9 ± 2.8	465	ME	[2000ZIE]
$C_6H_7N_5$	[1445-08-5]	2-methyladenine				
	SUB	(412–437)	120.6 ± 1.3	424	ME	[2000ZIE]
	SUB	(421–437)	122.8 ± 1.2	429	ME	[2000ZIE]
$C_6H_7N_5$	[5142-23-4]	3-methyladenine				
	SUB	(392–412)	117.3 ± 1.1	402	ME	[2000ZIE]
	SUB	(395–411)	117.6 ± 3.1	403	ME	[2000ZIE]
	SUB		83.7 ± 9		HSA	[1978NOW/SZC]
$C_6H_7N_5$	[443-72-1]	*N*-methyladenine				
	SUB	(395–425)	123.4 ± 2.1		ME	[1984ZIE/ZIE]
$C_6H_7N_5$	[22387-37-7]	8-methyladenine				
	SUB	(424–455)	103.2 ± 2.4	439	ME	[2000ZIE]
$C_6H_7N_5$	[700-00-5]	9-methyladenine				
	SUB	(381–411)	121.3 ± 4.6		ME	[1984ZIE/ZIE]
	SUB	(413–458)	121.7	428	HSA	[1987STE/MAL, 1965CLA/PES]
	SUB		92 ± 8		HSA	[1978NOW/SZC]
C_6H_7NO	[1192-58-1]	1-methyl-2-pyrrolecarboxaldehyde				
	V		55.8 ± 1.2	298	C	[2011SAN/RIB3]
C_6H_8		*cis*, *anti*, *cis*-tricyclo[3.1.0.0^{2,4}]hexane				
	V	(273–329)	30.6	293		[1979LET/ORC]
	V	(273–329)	29.7	313		[1979LET/ORC]
C_6H_8	[592-57-4]	1,3-cyclohexadiene				
	FUS	(10–300)	4.20	161		[1996DOM/HEA, 1976GEI/WOL]
	V	(307–364)	32.6	322	A, EB	[1987STE/MAL, 1973MEY/HOT]
	V	(304–322)	32.4	308	Static, MM	[1974LET/MAR]
C_6H_8	[628-41-1]	1,4-cyclohexadiene				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS	(10–300)	0.82	192		
	FUS	(10–300)	5.72	224		[1996DOM/HEA, 1976GEI/WOL]
	V	(304–360)	34.0	319	A	[1987STE/MAL]
	V	(304–322)	33.9	308	Static, MM	[1974LET/MAR]
C_6H_8	[2612-46-6]	*cis*-1,3,5-hexatriene				
	V	(306–323)	33.3	314	A, MM	[1987STE/MAL, 1974LET/MAR]
C_6H_8ClN	[142-04-1]	aniline hydrochloride				
	SUB	(383–471)	87.5	398	A	[1987STE/MAL, 1975KON/SEL]
	V	(475–527)	75	501		[2016HU/WU]
C_6H_8ClN	[14401-92-4]	3-methylpyridine hydrochloride				
	V	(420–471)	68.7	435	A	[1987STE/MAL]
C_6H_8ClN	[14401-93-5]	4-methylpyridine hydrochloride				
	V	(437–473)	64.7	452	A	[1987STE/MAL]
$C_6H_8Cl_2O_4$	[6941-69-1]	ethylene glycol, bischloroacetate				
	V	(385–557)	73.9	400	A	[1987STE/MAL, 1947STU]
$C_6H_8F_8N_4$	[18273-26-2]	1,1,4,4-tetrakis(difluoroamino)cyclohexane				
	FUS		46.02	382.2	DSC	[2001OXL/SMI]
$C_6H_8N_2$	[5910-89-4]	2,3-dimethylpyrazine				
	V		52.6 ± 1.7	298	C	[2003MOR/MIR]
$C_6H_8N_2$	[123-32-0]	2,5-dimethylpyrazine				
	V		47.6 ± 2.7	298	CGC	[2010LIP/PLI]
	V	(342–373)	47.2 ± 2.2	298	CGC	[2009LIP/CHI2]
	V	(303–411)	44.5	357		[1995SAK/UEO]
$C_6H_8N_2$	[111-69-3]	adiponitrile				
	FUS		18.0	275	DSC	[2007BAD/BLA]
	V	(348–523)	58.7	363	A	[1987STE/MAL]
	V	(296–314)	70.8	305		[1960WOO/MUR]
$C_6H_8N_2$	[4597-87-9]	2-methylaminopyridine				
	V	(308–323)	49.0	316	A	[1987STE/MAL]
$C_6H_8N_2$	[18364-47-1]	3-methylaminopyridine				
	V	(313–343)	57.2	326	A	[1987STE/MAL]
$C_6H_8N_2$	[1121-58-0]	4-methylaminopyridine				
	V	(313–343)	54.1	328	A	[1987STE/MAL]
$C_6H_8N_2$	[95-54-5]	1,2-diaminobenzene				
	FUS		18.6	374.7		[1997SAB/PER]
	FUS		23.1	373.9	DSC	[1997LEE/CHA, 1989BRE/LIC]
	SUB	(292–314)	89.7 ± 0.4	303	ME	[2011SAN/RIB]
	SUB	(292–314)	89.8 ± 0.4	298	ME	[2011SAN/RIB]
	SUB		85.5 ± 0.3	298	C	[1997SAB/PER]
$C_6H_8N_2$	[108-45-2]	1,3-diaminobenzene				
	FUS		12.03	336.3		[1997SAB/PER]
	FUS		15.4	335.5	DSC	[1996DOM/HEA, 1989BRE/LIC]
	SUB	(301–323)	95.1 ± 0.4	312	ME	[2011SAN/RIB]
	SUB	(301–323)	95.5 ± 0.4	298	ME	[2011SAN/RIB]
	SUB		90.4 ± 0.4	298	C	[1997SAB/PER]
	V	(372–559)	63.7	387	A	[1987STE/MAL, 1947STU]
$C_6H_8N_2$	[106-50-3]	1,4-diaminobenzene				
	FUS		20.12	414.3		[1997SAB/PER]
	FUS		24.86	416	DTA	[1992MAN]
	FUS		21.7	412.3	DSC	[1996DOM/HEA, 1989BRE/LIC]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(310–332)	96.3 ± 0.4	321	ME	[2011SAN/RIB]
	SUB	(310–332)	96.8 ± 0.4	298	ME	[2011SAN/RIB]
	SUB		92.2 ± 0.2	298	C	[1997SAB/PER]
$C_6H_8N_2$	[100-63-0]	phenyl hydrazine				
	FUS		16.43	292.8		[1996DOM/HEA, 1991ACR, 1911LOU/DUP]
	V	(413–518)	57.3	428	A	[1987STE/MAL, 1972DYK]
	V	(345–517)	59.2	360		[1947STU]
	V	(378–465)	57.2	393	T	[1942WIL/GIL]
$C_6H_8N_2$	[13925-00-3]	ethylpyrazine				
	V		48.8 ± 1.9	298	C	[2003MOR/MIR]
$C_6H_8N_2O_2$	[874-14-6]	1,3-dimethyluracil				
	FUS (I)		14.6	399		
	FUS (II)		18.4	395.2	DSC	[1996DOM/HEA, 1989SAK/IMA]
	FUS		23.1	392.5	DSC	[1984ZIE/ZIE2]
	SUB	(293–337)	96.3 ± 0.5	317	ME	[2015BRU/IRR]
	SUB	(293–337)	96.8	298	ME	[2015BRU/IRR]
	SUB	(293–337)	95.9 ± 0.9	348	ME	[2015BRU/IRR]
	SUB	(335–360)	97.4	298	ME	[2015BRU/IRR]
	SUB	(311–367)	115.8 ± 3.0	338	TE	[2000BRU/PIA]
	SUB	(340–368)	96.9 ± 1.2	298	C	[1989IMA/TAK]
	SUB		96.4 ± 1.4	298	C	[1985MUR/SAK]
	SUB	(313–363)	101.7 ± 2.1	338	QR	[1980TEP/YAN]
	SUB	(344–370)	92		HSA	[1965CLA/PES]
	V	(400–454)	46 ± 4.2	426	HSA	[1978NOW/SZC]
$C_6H_8N_2O_2$	[26305-13-5]	5,6-dimethyluracil				
	SUB	(416–457)	132.4 ± 1.4	298	GS	[2013NOT/EME]
$C_6H_8N_2O_2$	[4160-72-9]	1-methylthymine				
	SUB	(378–428)	124.4 ± 1.3	398	QR	[1980TEP/YAN]
$C_6H_8N_2O_2$	[4538-37-8]	1,4-diisocyanatobutane				
	FUS	(8–360)	20.76	231.2	AC	[2006SMI/KAN]
$C_6H_8N_2O_2$	[4562-27-0]	2,4-dimethoxypyrimidine				
	FUS		16.64	279.6	DSC	[2014GAL/RIB]
	V		60.3 ± 1.3	298	C	[2014GAL/RIB]
$C_6H_8N_2O_2S$	[63-74-1]	4-aminobenzene sulphonamide (sulfanilamide)				
	FUS		23.3	435.4	DSC	[2002MAR/GOM, 2001MAR/GOM]
	TRS		1.63	407		
	FUS		24.02	439.3		[1996CIO/MEL]
	FUS		23.0	438.7		[1985OHM/LIP]
$C_6H_8N_2O_3$	[769-42-6]	1,3-dimethylbarbituric acid				
	FUS		17.7	396.1	DSC	[2011TEM/ROU]
	SUB	(340–390)	92.3 ± 0.6	298	GS	[2011ROU/NOT]
$C_6H_8N_2O_3$	[24448-94-0]	5,5-dimethylbarbituric acid				
	FUS		37.9	549.3	DSC	[2011TEM/ROU]
	FUS		34.8	548.7	DSC	[2010ROU/NOT]
	SUB	(400–458)	115.8 ± 0.5	298	GS	[2010ROU/NOT]
$C_6H_8N_2O_8$	[551-43-9]	1,4:3,6-dianhydromannitol dinitrate (isomannide dinitrate)				
	FUS		20.5	337.2	DSC	[1998HAT/SUZ]
$C_6H_8N_2O_8$	[87-33-2]	1,4:3,6-dianhydro-(*d*)-glucitol dinitrate (isosorbide dinitrate)				
	FUS		27.63	341.7	DSC	[1998HAT/SUZ]
$C_6H_8N_2O_8$	[38777-20-7]	1,4:3,6-dianhydroiditol dinitrate (isoidide dinitrate)				
	FUS		12.81	325.9	DSC	[1998HAT/SUZ]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_8N_4O_2$	[4164-33-4]	bis(2-cyanoethyl)-*N*-nitroamine				
	FUS		44.99	327	DTA	[1987OYU/BRI]
$C_6H_8N_4O_8$	[146028-82-2]	1,1,4,4-tetranitrocyclohexane				
	FUS		108.8	489.2	DSC	[2001OXL/SMI]
Note: Experimental enthalpy is abnormally large—compound may be decomposing						
$C_6H_8N_6O_8$	[211108-51-9]	1,3-dinitro-3(1′,3′-dinitroazetidin-3′-yl)azetidine				
	FUS		25.52	387.5		[1998MCK/FLO]
C_6H_8O	[930-68-7]	2-cyclohexen-1-one				
	V	(351–445)	45.0	366	EB	[2006PAL/ORA]
	V	(335–481)	49.5 ± 0.4	298	EB	[1997STE/CHI3]
C_6H_8O	[625-86-5]	2,5-dimethylfuran				
	V	(331–366)	30.4	345		[2012MEJ/SEG]
	V	(271–308)	32.3 ± 0.3	290	GS	[1998VER/WEL]
	V	(271–308)	31.8 ± 0.3	298	GS	[1998VER/WEL]
$C_6H_8O_2$	[4935-01-7]	methyl bicyclo[1.1.0]butane-1-carboxylate				
	V	(299–377)	37.3	318	BG	[1971HAL/BAL]
$C_6H_8O_2$	[504-02-9]	1,3-cyclohexanedione				
	SUB		89.8 ± 1.1	298	C	[1993PIL/PAR]
$C_6H_8O_2$	[637-88-7]	1,4-cyclohexanedione				
	TRS	(80–370)	6.20	319.9		
	TRS	(80–370)	1.18	338.8		
	FUS	(80–370)	11.26	351.5	AC	[1983DEW/DEK]
	TRS		6.15	322.2		
	TRS		0.96	339.2		
	FUS		10.04	348.2		[1972ALV/BOR]
	SUB		75.0 ± 1.0	298	C	[1993PIL/PAR]
	SUB		84.4	289	TE, ME	[1983DEW/VAN]
	SUB		84.2	298		[1983DEW/VAN]
$C_6H_8O_2$	[110-44-1]	(*E*, *E*)-hexa-2,4-dienoic acid (sorbic acid)				
	FUS		18.76	405.3	DSC	[2015FAN/ZHA]
$C_6H_8O_3$	[17347-61-4]	2,2-dimethylsuccinic acid anhydride				
	V	(334–493)	57.3	349	A	[1987STE/MAL, 1947STU]
$C_6H_8O_3$	[31468-33-4]	2-methylglutaric acid anhydride				
	V	(366–556)	60.7	381	A	[1987STE/MAL, 1947STU]
$C_6H_8O_3$	[3658-77-3]	4-hydroxy-2,5-dimethyl-3(2*H*)-furanone				
	FUS		18.70	355.2	DSC	[2016XU/WAN]
	FUS		19.3	353.9	DSC	[2015WAN/LI, 2015ZHU/WAN]
$C_6H_8O_4$	[624-49-7]	dimethyl fumarate				
	FUS		32.4	375.3	DSC	[2003MAT/MIR3]
	FUS		35.15	375		[1996DOM/HEA, 1930WAS]
	SUB		88.4 ± 1.6	298	C	[2003MAT/MIR3]
	SUB		NA			[1972LEB/KAT]
	SUB		84.5 ± 1.7			[1934WOL/TRI]
	V	(361–466)	53.8	376	A	[1987STE/MAL]
$C_6H_8O_4$	[624-48-6]	dimethyl maleate				
	FUS		14.64	254		[1996DOM/HEA, 1930WAS]
	SUB		44.8			[1938WOL/WEG, 1960JON, 1935TRI]
	SUB	(317–341)	41.8 ± 4.2			[1934WOL/TRI]
Note: There is a problem with the sublimation data—the temperature range is above the melting point temperture in [1930WAS]						
	V		64.4 ± 1.6	298		[2003MAT/MIR3]
	V	(385–421)	52.0	400	A	[1987STE/MAL]
	V	(318–478)	53.9	334		[1947STU]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_8O_4$	[5445-51-2]	cyclobutane-1,1-dicarboxylic acid				
	FUS		15.8	433.2	DSC	[2011BOO/MON]
	SUB	(298–318)	84	308	ME	[2011BOO/MON]
	SUB		112.2 ± 0.7		C	[1983ALT/PIL]
$C_6H_8O_4$	[3396-14-3]	cyclobutane-1,2-dicarboxylic acid				
	SUB		120.0 ± 0.9		C	[1983ALT/PIL]
$C_6H_8O_4$	[95-96-5]	(*dl*)-3,6-dimethyl-1,4-dioxane-2,5-dione ((DL)-lactide)				
	FUS		24.7	397.5		[1996DOM/HEA, 1982KUL/LEB]
	SUB	(329–384)	91.6 ± 0.4	298	GS	[2009EME/VER2]
$C_6H_8O_4$	[4511-42-6]	(*l*) 3,6-dimethyl-1,4-dioxane-2,5-dione ((L)-lactide)				
	FUS		16.21	370.4	DSC	[2013CHE/XIE]
	FUS		16.94	366.6		[1999LEB/KUL]
	SUB	(324–362)	86.2 ± 0.4	298	GS	[2009EME/VER2]
$C_6H_8O_4$	[13076-17-0]	(*d*)-3,6-dimethyl-1,4-dioxane-2,5-dione ((D)-lactide)				
	FUS		16.21	371.0	DSC	[2013CHE/XIE]
$C_6H_8O_5$	[3184-35-8]	2-oxohexanedioic acid				
	SUB	(281–301)	127.0		TPTD	[2005CHA/ZIE]
Note: Values based on TPTD method are not consistent with values determined by other experimental methods						
$C_6H_8O_5$	[689-31-6]	3-oxohexanedioic acid				
	SUB	(307–329)	151		TPTD	[2005CHA/ZIE]
Note: Values based on TPTD method are not consistent with values determined by other experimental methods						
$C_6H_8O_6$	[50-81-7]	(*l*)-ascorbic acid (vitamin C)				
	FUS		45.2	467.4	DSC	[2014SHA/SRE]
	FUS		37.0	464.0	DSC	[2012KLI/LEI]
	FUS		48.6	466.8	DSC	[2010PAR/LEE]
	FUS		45.6	466.7	DSC	[2003TAN]
Note: Author of [2003TAN] noted that melting point temperature and enthalpy of fusion were dependent on scan rate, suggesting that the compound exhibited some decomposition. The value of 45.6 kJ/mole was for the largest scan rate studied.						
	FUS		37.04	466.2	DSC	[1998MUR/BET]
$C_6H_8O_6$	[32765-69-8]	glycerol triformate				
	V	(307–333)	78.5 ± 0.9	298	GS	[2010MAS/KRA]
$C_6H_8O_7$	[77-92-9]	2-hydroxy-1,2,3-propanetricarboxyic acid (citric acid)				
	FUS		U83.3	431.7	DSC	[2014SHA/SRE]
	FUS		41.8	428.6	DSC	[2012KLI/LEI]
	FUS		40.32	427.8	DSC	[2012MEL/PIN]
	FUS		43.46	427	DSC	[2010BOO/BAR]
	FUS		45.86	430.5	DSC	[2010PAR/LEE]
	FUS		40.15	433.9	DSC	[2011WYR/HEB]
	FUS		40.34	428.8	DSC	[2001FOR/HEM]
C_6H_8S	[632-16-6]	2,3-dimethylthiophene				
	V	(353–473)	39.4	368	A	[1987STE/MAL, 1972DYK]
C_6H_8S	[638-00-6]	2,4-dimethylthiophene				
	V	(323–493)	41.4	338	A	[1987STE/MAL, 1972DYK, 1999DYK/SVO]
C_6H_8S	[638-02-8]	2,5-dimethylthiophene				
	FUS	(5–305)	8.19	210.6	AC	[1996DOM/HEA, 1965CAR/WES2]
	V		40.2 ± 0.9	298	C	[2008RIB/SAN3]
	V	(333–374)	39.7	348	I, A	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]
C_6H_8S	[632-15-5]	3,4-dimethylthiophene				
	V	(328–478)	41.1	343	A	[1987STE/MAL, 1972DYK, 1999DYK/SVO]
C_6H_8S	[872-55-9]	2-ethylthiophene				
	V		39.7 ± 0.9	298	C	[2007RIB/SAN]
	V	(333–374)	39.7	348	I, A	[1987STE/MAL, 1971EON/POM, 1999DYK/SVO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6H_8S	[1795-01-3]	3-ethylthiophene				
	V	(318–473)	40.7	333	A	[1987STE/MAL, 1972DYK]
$C_6H_9ClO_2$	[1888-94-4]	2-chloroethyl methacrylate				
	FUS		17.0	235.1	AC	[1985KAR/ABD, 1996DOM/HEA]
$C_6H_9F_3O_2$	[367-64-6]	butyl trifluoroacetate				
	V	(343–377)	37.8	358	A, EB	[1987STE/MAL, 1969SHE/LAN]
$C_6H_9F_{12}N_2O_5P$	[30295-37-5]	*O*, *O*′-(trimethoxyphosphoranylidene)bis[*N*, *N*-bis(trifluoromethyl)hydroxyamine]				
	V		42.1			[1970ELN/EME]
C_6H_9N	[4254-02-8]	cyclopentanecarbonitrile				
	V		48.1 ± 0.1	298	C	[1983FUC/HAL]
	V		43.4 ± 0.1	298		[1973KON]
	V	(340–418)	40.9	359	BG	[1971HAL/BAL]
	V		43.5 ± 0.1	298	C	[1970PRO/KRE]
C_6H_9N	[625-82-1]	2,4-dimethylpyrrole				
	FUS	(12–441)	9.6	268.5	AC	[1994CHI/HOS2]
C_6H_9N	[625-84-3]	2,5-dimethylpyrrole				
	FUS	(12–383)	9.3	280.9	AC	[1996DOM/HEA, 1988MES/TOD]
	V	(373–443)	49.5	388	A, IPM, EB	[1987STE/MAL, 1968OSB/DOU]
C_6H_9NO	[88-12-0]	*N*-vinylpyrrolidone				
	FUS		15.28	286.2		[1997KUL/LEB2]
$C_6H_9NO_2$	[1572-99-2]	ethyl 2-cyanopropionate				
	V	(283–323)	58.6 ± 0.3	298	GS	[1995VER/BEC]
$C_6H_9NO_6$	[35993-37-4]	isomannide mononitrate				
	FUS		20.64	344.8	DSC	[1998HAT/SUZ]
$C_6H_9NO_6$	[16106-20-0]	isosorbide-2-mononitrate				
	FUS		26.38	328	DSC	[1998HAT/SUZ]
$C_6H_9NO_6$	[16051-77-7]	isosorbide-5-mononitrate				
	FUS		22.36	364	DSC	[1998HAT/SUZ]
C_6H_9NS	[13623-11-5]	2,4,5-trimethylthiazole				
	FUS		9.0	240.7		[1966MEY/MET]
$C_6H_9N_3$	[443-48-1]	2-methyl-5-nitro-1*H*-imidazole-1-ethanol (metronidazole)				
	FUS		36.1	432.7	DSC	[2014AGA/MOS]
	FUS		32.7	434.0	DSC	[2010BUS/MEU]
$C_6H_9N_3$	[767-15-7]	2-amino-4,6-dimethylpyrimidine				
	SUB	(290–312)	89.5 ± 0.5	301	ME	[2013GAL/RIB]
	SUB	(290–312)	89.5 ± 0.5	298	ME	[2013GAL/RIB]
$C_6H_9N_3$	[461-98-3]	4-amino-2,6-dimethylpyrimidine				
	SUB	(309–337)	99.1 ± 0.6	323	ME	[2013GAL/RIB]
	SUB	(309–337)	99.6 ± 0.6	298	ME	[2013GAL/RIB]
$C_6H_9N_3O$	[7171-70-2]	1,3,5-trimethyl-4-nitrosopyrazole				
	SUB		88.0 ± 2.0	298	C	[2001RIB/FER]
$C_6H_9N_3O$	[17634-60-5]	1,5-dimethylcytosine				
	SUB	(390–437)	132.8 ± 0.6		GS	[1998ZIE/WSZ]
$C_6H_9N_3O$	[6220-49-1]	1,*N*-dimethylcytosine				
	SUB	(401–426)	122.2 ± 0.3		GS	[1998ZIE/WSZ]
$C_6H_9N_3O_2$	[71-00-1]	L-histidine				
	SUB	(392–492)	142 ± 8	442	LE	[1977GAF/PIE]
$C_6H_9N_3O_2$	[20555-80-0]	1-methyl-*N*4-methoxycytosine				
	SUB	(316–325)	107.6 ± 0.3		ME	[1999ZIE/PER]
	SUB	(320–357)	106.9 ± 0.4		GS	[1999ZIE/PER]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		106.4 ± 0.8			[1998ZIE/WSZ]
$C_6H_9N_3O_2$	[6220-53-7]	1,5-dimethyl-*N*-hydroxcytosine				
	SUB	(357–394)	115.2 ± 0.6		GS	[1998ZIE/WSZ]
$C_6H_9N_3O_2$	[36315-01-2]	2-amino-4,6-dimethoxypyrimidine				
	FUS		29.85	371		[2003SUN/SON]
$C_6H_9N_3O_2$	[6642-31-5]	6-amino-1,3-dimethyluracil				
	SUB	(409–426)	146.4 ± 4.6	418	ME	[2003ZIE/SZT]
	SUB	(402–418)	144.3 ± 4.1	410	ME	[2003ZIE/SZT]
	SUB		148.7	298	ME	[2003ZIE/SZT]
$C_6H_9N_3O_3$	[877-89-4]	2,4,6-trimethoxy-1,3,5-triazine				
	FUS (β)		18.1	404		[2004FRI/KAP]
	FUS (γ)		11.4	409		[2004FRI/KAP]
	TRS	(298–523)	3.9	340.2	DSC	
	FUS	(298–523)	18.1	395.2	DSC	[2000HAN/BOT]
	SUB		90.3 ± 1.0	298	C	[1989IMA/TAK, 1985MUR/SAK]
$C_6H_9N_3O_3$		6-methoxy-3,5-dimethyl-tetrahydrotriazine-2,4-dione				
	FUS		12.7	363.2		[2000HAN/BOT, 2004FRI/KAP]
[Note: Compound rearranges shortly after melting]						
$C_6H_9N_3O_3$	[827-16-7]	trimethyl isocyanurate				
	SUB	(330–346)	86.6 ± 1.3	338	C	[1988IMA/MUR]
	SUB		88.2 ± 1.3	298	C	[1988IMA/MUR]
	SUB		88.2 ± 1.3	298	C	[1989IMA/TAK, 1985MUR/SAK]
$C_6H_9N_3O_3$	[1422829-45-5]	3-butyl-4-nitrofurazan				
	V		60.0 ± 0.7	298	C	[2012KON/MAT]
C_6H_9P	[3746-01-8]	trivinylphosphine				
	V	(313–341)	37.2	327		[1959KAE/STO]
	V	(289–334)	33.7	304		[1957MAI/SEY, 1984BOU/FRI]
C_6H_{10}	[285-58-5]	*cis*-bicyclo[3.1.0]hexane				
	V	(273–300)	33.7	286	A	[1987STE/MAL]
	V		33.5 ± 0.4	298	EB	[1970CHA/MCN]
C_6H_{10}	[5685-46-1]	bicyclopropyl				
	V		31.7 ± 0.5	298	C	[2007PAS/KUZ]
C_6H_{10}	[3664-56-0]	1,2,2-trimethylcyclopropene				
	V		27.9 ± 1.4	298	C	[2007PAS/KUZ]
	V		26.8 ± 1.7	298		[1986PIM/DOM, 2007PAS/KUZ]
C_6H_{10}	[110-83-8]	cyclohexene				
	TRS		4.23	138.7		
	FUS	(12–300)	3.28	169.7	AC	[1996DOM/HEA, 1977HAI/SUG]
	TRS		4.25	138.7		
	FUS		3.29	169.7		[1996DOM/HEA, 1948HUF/EAT]
	TRS		4.08	138.7		
	FUS		3.29	169.0		[1996DOM/HEA, 1930PAR/HUF2]
	V	(315–356)	32.8	330		[2009MAR/AUC]
	V	(310–356)	32.9	325		[2004STE/SUN]
	V	(312–356)	32.6	327		[2001SEG/LAM]
	V	(285–357)	33.5 ± 0.5	298	EB	[1996STE/CHI3]
	V	(285–357)	32.3 ± 0.5	320	EB	[1996STE/CHI3]
	V	(285–357)	30.2 ± 0.5	360	EB	[1996STE/CHI3]
	V	(309–365)	32.7	324	A, EB	[1987STE/MAL, 1973MEY/HOT]
	V	(305–322)	33.1	308	Static, MM	[1974LET/MAR]
	V		32.7 ± 0.1	313	C	[1973SVO/VES]
	V		32.2 ± 0.1	323	C	[1973SVO/VES]
	V		31.7 ± 0.1	333	C	[1973SVO/VES]
	V		31.2 ± 0.1	343	C	[1973SVO/VES]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		30.7 ± 0.1	353	C	[1973SVO/VES]
	V	(285–357)	33.7	300	MM	[1950FOR/CAM]
	V	(229–292)	32.6	300		[1941LIS]
C_6H_{10}	[693-89-0]	1-methylcyclopentene				
	V		32.6 ± 0.2	298	GCC	[1979FUC/PEA]
	V	(268–403)	33.4	283	A	[1987STE/MAL, 1972DYK]
C_6H_{10}	[1120-62-3]	3-methylcyclopentene				
	V		31.0 ± 0.2	298	GCC	[1979FUC/PEA]
	V	(263–392)	32.1	278	A	[1987STE/MAL, 1972DYK]
C_6H_{10}	[1759-81-5]	4-methylcyclopentene				
	V	(271–403)	33.2	286	A	[1987STE/MAL, 1972DYK]
C_6H_{10}	[1489-61-8]	1,3-dimethylcyclobutene				
	V	(269–296)	31.3	282	A	[1987STE/MAL, 1965FRE/MAR]
C_6H_{10}	[513-81-5]	2,3-dimethyl-1,3-butadiene				
	V	(273–342)	32.2	288	A	[1987STE/MAL, 1955CUM/MCL]
C_6H_{10}	[592-48-3]	*trans*-1,3-hexadiene				
	V	(299–319)	32.1	309	A, MM	[1987STE/MAL, 1974LET/MAR]
C_6H_{10}	[7319-00-8]	*trans*-1,4-hexadiene				
	V	(304–323)	30.2	313	A, MM	[1987STE/MAL, 1974LET/MAR]
C_6H_{10}	[592-42-7]	1,5-hexadiene				
	V	(299–333)	29.4	314	A	[1987STE/MAL]
	V	(300–323)	28.6	312	Static, MM	[1974LET/MAR]
	V	(273–333)	30.5	288	A	[1987STE/MAL, 1955CUM/MCL, 1972DYK]
C_6H_{10}	[5194-51-4]	*trans trans*-2,4-hexadiene				
	V	(304–354)	33.2	319	A	[1987STE/MAL]
	V	(305–323)	33.2	308	Static, MM	[1974LET/MAR]
C_6H_{10}	[693-02-7]	1-hexyne				
	V	(273–363)	33.6	298	Static	[2011NEG/KAC]
	V	(250–290)	33.5	270	MM	[1981CHI/HYM]
	V	(237–287)	34.2	262	HSA	[1981CHI/HYM]
	V	(265–391)	33.4	280	A	[1987STE/MAL, 1972DYK]
C_6H_{10}	[764-35-2]	2-hexyne				
	V	(273–363)	35.9	298	Static	[2011NEG/KAC]
	V	(283–313)	35.8	298	Static	[2007BOU/BEL]
	V	(283–313)	35.9	298	Static	[2006BOU/BEL]
C_6H_{10}	[764-35-2]	3-hexyne				
	V	(273–363)	36.0	298	Static	[2011NEG/KAC]
	V	(253–354)	30.5	268	A	[1987STE/MAL]
	V	(253–298)	31.6	275	T	[1965RON/HAR]
$C_6H_{10}Br_2$	[7429-37-0]	*trans*-1,2-dibromocyclohexane				
	V	(350–416)	53.3	365	A	[1987STE/MAL, 1969AND/BRA]
$C_6H_{10}ClFO_2$		3-fluorobutyric acid, 2-chloroethyl ester				
	V	(273–333)	60.4	288	A	[1987STE/MAL, 1972DYK]
$C_6H_{10}ClF_3O$	[358-36-1]	2-chloro-1,1,2-trifluoroethyl butyl ether				
	V		45.1 ± 0.1	298	C	[1984MAJ/UCH]
	V		43.9 ± 0.1	313	C	[1984MAJ/UCH]
	V		42.8 ± 0.1	328	C	[1984MAJ/UCH]
	V		41.6 ± 0.1	343	C	[1984MAJ/UCH]
$C_6H_{10}Cl_2$	[2108-92-1]	1,1-dichlorocyclohexane				
	TRS		9.16	225		
	FUS		1.47	236		[1999KAB/KOZ]
	V	(335–444)	43.5	350	A	[1987STE/MAL, 1951CAR/KUB]
$C_6H_{10}Cl_2$	[10498-35-8]	*cis*-1,2-dichlorocyclohexane				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(364–480)	45.8	379	A	[1987STE/MAL, 1951CAR/KUB]
$C_6H_{10}Cl_2$	[822-86-6]	*trans*-1,2-dichlorocyclohexane				
	V	(344–462)	45.8	359	A	[1987STE/MAL, 1951CAR/KUB]
$C_6H_{10}Cl_2$	[19398-57-3]	1,4-dichlorocyclohexane				
	V	(353–406)	47.8	368	A	[1987STE/MAL]
$C_6H_{10}Cl_2O_2$	[37079-08-6]	isobutyl dichloroacetate				
	V	(301–456)	51.4	316	A	[1987STE/MAL, 1947STU]
$C_6H_{10}F_2O_2$		3-fluorobutyric acid, 2-fluoroethyl ester				
	V	(273–333)	54.8	288	A	[1987STE/MAL, 1972DYK]
$C_6H_{10}N_2$	[35203-44-2]	1-propylimidazole				
	V	(279–341)	61.1 ± 0.2	298	GS	[2011EME/POR]
$C_6H_{10}N_2$	[4532-96-1]	*N*-isopropylimidazole				
	V	(284–323)	58.4 ± 0.3	298	GS	[2015VER/ZAI3]
$C_6H_{10}N_2$	[21202-52-8]	1-ethyl-2-methylimidazole				
	V	(294–363)	60.4 ± 0.3	298	GS	[2011EME/POR2]
$C_6H_{10}N_2O$	[25926-96-9]	2,3-diazabicyclo[2.2.2]oct-2-ene *N*-oxide				
	TRS		5.02	359.3		
	TRS		8.05	399.3		
	FUS		3.84	438	DSC	[1980BYS]
$C_6H_{10}N_2O$	[2304-58-7]	5-cyanopentamide				
	FUS		30.1			[1971PRY/EFR]
$C_6H_{10}N_2O_2$	[7491-74-9]	2-oxo-1-pyrrolidineacetamide (piracetam)				
	FUS (I)		26.6	424.5		
	FUS (III)		30.4	412.3	DSC	[2016TOS/CEO]
	TRS (II to I)		3.4	391.2		
	FUS (I)		25.4	427.2		
	TRS (III to I)		3.6	398.2		
	FUS (I)		25.5	427.2	DSC	[2012MAH/SEA]
	TRS (II to I)		3.37	393.3		
	TRS (III to I)		3.76	398.4	DSC	[2012MAH/RAS]
	TRS (II to I)		3.23	387.9		
	FUS (I)		25.0	425.9	DSC	[2011PIC/DIO]
	TRS (III to I)		3.73	425.9		
	FUS (I)		26.0	425.9	DSC	[2011PIC/DIO]
	FUS (I)		25.59	426		
	FUS (III)		29.85	412	DSC	[1996CEO/AGA]
	FUS (I)		25.7	426.0		
	FUS (III)		29.3	412.0		[1994KUH/BUR, 2016TOS/CEO]
	SUB (II)		120.8 ± 1.8	365	C	[2011PIC/DIO]
	SUB (II)		123.8 ± 1.8	298	C	[2011PIC/DIO]
	SUB (II)		122.5 ± 1.4	298	ME	[2011PIC/DIO]
$C_6H_{10}N_2O_2$	[5076-82-4]	1,4-dimethyl-2,5-piperazinedione (sarcosine anhydride)				
	FUS		22.04	418.2	DSC	[1997ABA/PAL]
	SUB	(329–351)	102.5 ± 0.5	340	ME	[2013AMA/SAN]
	SUB	(329–351)	103.6 ± 0.5	298	ME	[2013AMA/SAN]
$C_6H_{10}N_2O_2$	[5625-46-7]	3,6-dimethyl-2,5-piperazinedione				
	FUS		30.6	556.1	DSC	[1997ABA/PAL]
	SUB	(388–410)	126.4 ± 1.0	399	ME	[2013SAN/AMA]
	SUB	(388–410)	130.4 ± 1.0	298	ME	[2013SAN/AMA]
$C_6H_{10}N_2O_2$	[62613-82-5]	4-hydroxy-2-oxo-1-pyrrolidine amide				
	FUS		34.69	445.3	DSC	[2016LI/DU]
$C_6H_{10}N_6O_9$	[28464-26-8]	*N*-(2,2-dinitropropyl)-2,2-dinitro-*N*-nitroso-1-propanamine				
	SUB	(323–336)	110.9 ± 8		ME	[1973PEP/GAF, 1977PED/RYL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{10}N_6O_{10}$	[28464-24-6]	*N*-(2,2-dinitropropyl)-2,2-dinitro-*N*-nitro-1-propanamine				
	SUB	(398–423)	99.2 ± 0.8		ME	[1973PEP/GAF]
$C_6H_{10}O$	[279-49-2]	7-oxabicyclo[2.2.1]heptane				
	TRS		4.86	180.5		
	TRS		0.98	218.5		
	FUS		0.71	244	DSC	[1998PAR/GIL]
$C_6H_{10}O$	[1462-03-9]	1-methylcyclopentanol				
	FUS		8.41	310.2		[1985WIB/WAS]
	SUB (cryst III)	(253–281)	73.7 ± 0.4	267	ME	[1997BLO/KAB]
	SUB (cryst III)		67.0 ± 0.2	298		[1997BLO/KAB]
	SUB (cryst III)		67.4 ± 0.2	291	C	[1997BLO/KAB]
	V	(354–407)	45.7	369	A	[1987STE/MAL]
$C_6H_{10}O$		cyclopentenyl methyl ether				
	V	(274–313)	42.3 ± 0.8	294	GS	[1998VER/WEL]
	V	(274–313)	42.1 ± 0.8	298	GS	[1998VER/WEL]
$C_6H_{10}O$	[2270-61-3]	2,3-dihydro-4-methyl-2*H*-pyran				
	V	(304–392)	38.1	319	A	[1987STE/MAL, 1968KAC/NEM, 1984BOU/FRI]
$C_6H_{10}O$	[35656-02-1]	methylenetetrahydro-2*H*-pyran				
	V	(339–382)	36.8	354	A	[1987STE/MAL, 1971LES/KHR]
$C_6H_{10}O$	[108-94-1]	cyclohexanone				
	TRS	(14–178)	8.66	220.8		
	FUS	(14–178)	1.33	245.2	AC	[1980NAK/SUG]
	TRS		8.74	220.6		
	FUS		1.36	244.6		[1974VAN/OON]
	SUB	(243–265)	49.3	254		[1948NIT/SEK2]
	V	(343–427)	43.1	358	EB	[2006TEO/BAR]
	V	(343–383)	46.6 ± 0.4	298	CGC	[1995CHI/HOS]
	V	(318–428)	44.0	333		[1993AUC/MON]
	V		44.4 ± 0.1	308	C	[1992SVO/KUB]
	V		44.0 ± 0.1	313	C	[1992SVO/KUB]
	V		43.4 ± 0.1	323	C	[1992SVO/KUB]
	V		43.1 ± 0.1	328	C	[1992SVO/KUB]
	V		42.2 ± 0.1	338	C	[1992SVO/KUB]
	V		41.8 ± 0.1	343	C	[1992SVO/KUB]
	V		41.4 ± 0.1	348	C	[1992SVO/KUB]
	V		42.3 ± 0.2		GC	[1989AZA]
	V	(345–458)	42.2	360	EB	[1987AMB/GHI2]
	V	(395–426)	40.4	410		[1984CAS/FRA2]
	V	(296–368)	43.8	330		[1983MAR/SHV]
	V	(381–446)	40.5	400		[1983MAR/SHV]
	V	(362–439)	41.5	377	A, EB	[1987STE/MAL, 1973MEY/HOT]
	V	(293–353)	44.9 ± 0.6	298	VP	[1972WOL]
	V		45.1 ± 0.1	298	C	[1968PLA/WIL]
	V	(273–298)	40.3	286		[1938RAD/ALE]
$C_6H_{10}O$	[109-49-9]	5-hexen-2-one				
	V	(317–440)	42.1 ± 0.1	320	EB	[2002STE/CHI5]
	V	(317–440)	39.4 ± 0.2	360	EB	[2002STE/CHI5]
	V	(317–440)	36.6 ± 0.3	400	EB	[2002STE/CHI5]
	V	(317–440)	33.5 ± 0.6	440	EB	[2002STE/CHI5]
	V	(449–561)	34.6	464	A	[1987STE/MAL]
$C_6H_{10}O$	[141-79-7]	mesityl oxide				
	V		35.2	401		[1898LOU, 1997STE/CHI]
[Note: May be a mixture of 2-methyl-1-penten-4-one and 4-methyl-3-penten-2-one]						
$C_6H_{10}O$	[3744-02-3]	2-methyl-1-penten-4-one				
	V	(389–461)	36.9	404	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(286–461)	41.9	298		[1975AMB/ELL]
	V	(306–398)	41.1	321	MM	[1987STE/MAL, 1947STR/MON, 1972DYK]
$C_6H_{10}O$	[141-79-7]	4-methyl-3-penten-2-one				
	V	(303–442)	42.7 ± 0.3	298	EB	[1997STE/CHI]
	V	(303–442)	41.4 ± 0.3	320	EB	[1997STE/CHI]
	V	(303–442)	39.1 ± 0.3	360	EB	[1997STE/CHI]
	V	(303–442)	36.5 ± 0.3	400	EB	[1997STE/CHI]
	V	(303–442)	33.5 ± 0.6	440	EB	[1997STE/CHI]
	V	(343–383)	44.8	298	CGC	[1995CHI/HOS]
	V	(399–471)	37.8	414	A	[1987STE/MAL]
	V	(292–471)	43.3	298		[1975AMB/ELL]
	V	(313–405)	41.5	328	MM	[1987STE/MAL, 1947STR/MON, 1972DYK]
$C_6H_{10}O$	[6728-26-3]	(*E*)-2-hexenal				
	V	(374–446)	38.6	390		[2014MEN/BEJ]
$C_6H_{10}O$	[286-20-4]	cyclohexene oxide (1,2-epoxycyclohexane)				
	TRS	(10–300)	9.54	193.1		
	FUS	(10–300)	1.06	238.1	AC	[1980NAK/SUG]
$C_6H_{10}O_2$	[765-85-5]	methyl cyclobutanecarboxylate				
	V		44.2 ± 0.2		GS	[1998VER/KUM]
	V		44.7 ± 0.1	298	C	[1983FUC/HAL]
	V	(319–378)	41.4	340	BG	[1971HAL/BAL]
$C_6H_{10}O_2$	[4606-07-9]	cyclopropanecarboxylic acid ethyl ester				
	V	(278–308)	44.0 ± 0.5		GS	[1998VER/KUM]
$C_6H_{10}O_2$	[106-92-3]	allyl glycidyl ether				
	V	(323–420)	47.0	338	A	[1987STE/MAL]
$C_6H_{10}O_2$	[123-20-6]	butyric acid, vinyl ester				
	V	(365–387)	39.3	376	A	[1987STE/MAL]
$C_6H_{10}O_2$	[1072-96-4]	4-vinyl-1,3-dioxane				
	V	(306–416)	54.5	321	A	[1987STE/MAL, 1972LES/CHE]
$C_6H_{10}O_2$	[502-44-3]	ε-caprolactone				
	FUS	(14–328)	13.82	272	AC	[1991ACR, 1983LEB/YEV]
	V	(283–353)	60.5 ± 0.8	298	GS	[2010EME/VER]
	V	(283–343)	U38.2	298		[2008BIA/CEZ]
	V	(395–436)	54.0 ± 0.2	415	EB	[1991WIB/WAL]
	V	(395–436)	62.0 ± 1.3	298	EB	[1991WIB/WAL]
$C_6H_{10}O_2$	[823-22-3]	δ-hexanolactone				
	V	(283–343)	58.1	298		[2008BIA/CEZ]
	V	(283–353)	60.9 ± 0.1	298	GS	[2007EME/KOZ]
$C_6H_{10}O_2$	[695-06-7]	γ-caprolactone				
	V		57.4 ± 3.7	298	CGC	[2014KOZ/GOB]
	V	(283–353)	57.2 ± 0.3	298	GS	[2008EME/KOZ, 2009EME/VER]
	V	(243–298)	55.3 ± 0.6	298		[2004COV/MOK, 2008EME/KOZ]
$C_6H_{10}O_2$	[924-50-5]	methyl 3-methylbut-2-enoate				
	V	(274–304)	46.9 ± 0.2	298	GS	[2008EME/TOK]
$C_6H_{10}O_2$	[10544-63-5]	ethyl crotonate				
	V	(329–420)	47.1	344	A	[1987STE/MAL]
$C_6H_{10}O_2$	[97-63-2]	ethyl methacrylate				
	V	(285–390)	38.3	300	A	[1987STE/MAL]
$C_6H_{10}O_2$	[3123-97-5]	5,5-dimethyldihydro-2(3*H*)-furanone				
	V	(311–480)	52.7	326	A	[1987STE/MAL]
$C_6H_{10}O_2$	[925-60-0]	propyl acrylate				
	V	(287–395)	37.9	302	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{10}O_2$	[110-13-4]	2,5-hexanedione				
	V	(386–474)	50.1	401	A	[1987STE/MAL]
$C_6H_{10}O_3$		*cis*/*trans*-2,5-dimethoxy-2,5-dihydrofuran				
	V		44.2 ± 0.3	298	CGC	[2000NIC/ORF]
$C_6H_{10}O_3$	[284-22-0]	cyclohexene ozonide				
	V	(276–311)	74.2	291	A	[1987STE/MAL]
	V	(353–403)	58.6	378		[1977BOL/MAK]
$C_6H_{10}O_3$	[141-97-9]	ethyl acetoacetate				
	V	(301–454)	52.5	316	A	[1987STE/MAL]
$C_6H_{10}O_3$	[624-45-3]	methyl levulinate				
	V	(333–453)	56.3	348		[2013LOM/LAF]
	V	(312–471)	50.4	327	A	[1987STE/MAL, 1947STU]
	V		51.1	410		[1931SCH/COW]
$C_6H_{10}O_3$	[123-62-6]	propionic anhydride				
	V	(293–440)	48.2	308	A	[1987STE/MAL]
	V	(341–440)	52.2	356		[1883KAH]
$C_6H_{10}O_3$	[141-97-9]	ethyl 3-oxobutanoate				
	V		54.2 ± 1.0	298	C	[1995RIB/FER]
	V		55.0			[1975VIL/PER]
$C_6H_{10}O_3$	[766-32-5]	4-methyl-2,6,7-trioxabicyclo[2.2.2]octane				
	FUS		10.4	369.2		[1995RAK/VER2]
	SUB		67.4	298		[1995RAK/VER2]
$C_6H_{10}O_3$	[3592-12-9]	2,2-dimethyltrimethylene carbonate				
	TRS		10.3	324.1		
	FUS		5.62	387.2		[1995LEB/KUL2]
$C_6H_{10}O_4$	[75096-35-4]	*cis*-1,3,5,7-tetraoxadecalin				
	FUS		28.62	450.2	DSC	[1998LIN/BEC]
	SUB		94.9	298		[1998LIN/BEC]
$C_6H_{10}O_4$	[54933-94-7]	*trans*-1,3,5,7-tetraoxadecalin				
	FUS		23.14	374.5	DSC	[1998LIN/BEC]
	SUB		81.5	298		[1998LIN/BEC]
$C_6H_{10}O_4$	[542-10-9]	1,1-diacetoxyethane				
	V	(283–318)	59.0 ± 0.5	298	GS	[1996VER/PEN]
	V	(343–438)	49.7	358	A	[1987STE/MAL]
$C_6H_{10}O_4$	[6284-75-9]	2-acetoxypropionic acid, methyl ester				
	V	(337–445)	52.9	352	A	[1987STE/MAL, 1950REH/DIX]
$C_6H_{10}O_4$	[38003-42-8]	3-acetoxypropionic acid, methyl ester				
	V	(343–358)	68.0	350	A	[1987STE/MAL, 1948FEI/FIS]
$C_6H_{10}O_4$	[95-92-1]	diethyl oxalate				
	V	(284–334)	57.1	309	GS	[2011LIP/KRA]
	V	(284–334)	57.8 ± 0.4	298	GS	[2011LIP/KRA]
	V	(343–457)	53.9	358	A	[1987STE/MAL]
	V	(343–457)	61.9	298	A	[1987STE/MAL, 2011LIP/KRA]
	V	(320–459)	62.3	335	A	[1987STE/MAL]
	V	(339–392)	54.1	366		[1970MAT/TAN, 2011LIP/KRA]
	V	(339–392)	59.3	298		[1970MAT/TAN, 2011LIP/KRA]
	V	(320–459)	65.2	298		[1947STU, 2011LIP/KRA]
	V	(304–448)	49.5	376		[1940HEI/REI, 2011LIP/KRA]
	V	(304–448)	55.3	298		[1940HEI/REI, 2011LIP/KRA]
$C_6H_{10}O_4$	[106-65-0]	dimethyl succinate				
	V	(286–340)	61.0 ± 0.3	298	GS	[2006VER/KOZ]
	V	(342–468)	61.7 ± 0.4	298		[1992KAT, 2006VER/KOZ]
	V	(340–470)	49.3	364	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(367–460)	60.9 ± 0.4	298	EB	[1987DAU/JAL, 2006VER/KOZ]
	V	(398–468)	62.4	298	EB	[1963VLA/GRA, 2006VER/KOZ]
$C_6H_{10}O_4$	[111-55-7]	ethylene glycol diacetate				
	V	(295–325)	60.2 ± 1.1		GS	[2011MAS/KRA]
	V	(291–334)	61.4 ± 0.2	298	GS	[2009VER/EME2]
	V	(311–464)	55.2	326	A	[1987STE/MAL]
	V		61.4 ± 0.2	298	C	[1986NIL/WAD]
	V		61.0 ± 0.1	298	C	[1970KUS/WAD]
	V	(373–463)	57.6	388		[1926TAY/RIN, 1984BOU/FRI]
$C_6H_{10}O_4$	[609-02-9]	dimethyl methylmalonate				
	V	(278–308)	57.8 ± 0.8	293	GS	[1992VER/BEC]
$C_6H_{10}O_4$	[597-43-3]	2,2-dimethylbutanedioic acid (2,2-dimethylsuccinic acid)				
	FUS		38.1	411.0	DSC	[2012WAN/LI]
	SUB	(350–365)	122.7 ± 2.7	298	ME	[2001RIB/MON2]
$C_6H_{10}O_4$	[617-62-9]	2-methylglutaric acid				
	FUS		30.26	349	DSC	[2010BOO/BAR]
	SUB	(338–348)	126.5 ± 2.1	298	ME	[2001RIB/MON2]
$C_6H_{10}O_4$	[626-51-7]	3-methylpentanedioic acid				
	FUS		31.0	358.6	DSC	[2012WAN/DEN, 2012WAN/LI]
	FUS		27.4	356	DSC	[2010BOO/BAR]
$C_6H_{10}O_4$	[13545-04-5]	2,3-dimethylbutanedioic acid				
	FUS		16.9	392.5	DSC	[2012WAN/DEN, 2012WAN/LI]
$C_6H_{10}O_4$	[124-04-9]	adipic acid				
	FUS		32.0		DSC	[2014HAS/JIR]
	FUS		35.89	423	DSC	[2010BOO/BAR]
	FUS		35.20	426.3	DSC	[2010WAN/LAI, 2012WAN/LI]
	FUS		33.7	419	DSC	[2005ROU/TEM]
	FUS		34.34	420.9	DSC	[1984CHO/GO]
	FUS		37.32	424.5	DSC	[1982VAN/MUL]
	FUS		34.85	426.4	DSC	[1991ACR, 1974CIN/BER]
	SUB		125 ± 40		ME, MS	[2009BOO/MAR]
	SUB	(353–373)	124.7 ± 20		ME	[2009TAU/SIT]
	SUB	(328–368)	145 ± 4		TPD	[2007CAP/LOV]
	SUB	(285–307)	146.2		TPTD	[2005CHA/ZIE]
	SUB		NA			[2001ALB]
	SUB	(295–318)	140		TPTD	[2001CHA/TOB]
Note: Values based on TPTD method are not consistent with values determined by other experimental methods						
	SUB		133.6 ± 1.3	298	ME	[1999RIB/MON, 1960DAV/THO]
	SUB	(359–406)	129.3 ± 2.5	383	ME	[1960DAV/THO, 1960JON, 1970COX/PIL]
	SUB	(292–320)	U37.2	306	A	[1947GRA]
	V	(424–503)	105.2	298	CGC	[2005ROU/TEM]
	V	(432–611)	92.0	447	A	[1987STE/MAL, 1947STU]
$C_6H_{10}O_4$	[1070-34-4]	ethyl succinate				
	V	(418–468)	118.3	433	EB	[2011ORJ/YAN]
$C_6H_{10}O_5$	[498-07-7]	1,6-anhydro-β-(D)-glucose (levoglucosan)				
	TRS		25.0	384		
	FUS		2.9	454	DSC	[2015KAB/PAU]
	TRS		23.2	384.9		
	FUS		3.3	455.4	DSC	[2013ROC/GAL]
	TRS		U13.2	385.7		
	FUS		3.2	455.3	DSC	[2011BOO/MON]
	TRS		24.95	385		
	FUS		3.4	455	DSC	[1970SHA/MCG]
	SUB	(353–383)	125.7 ± 1.6	372	ME	[2015KAB/PAU]
	SUB	(353–383)	126.6 ± 1.6	298	ME	[2015KAB/PAU]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(361–379)	131.0 ± 1.7	370	ME	[2013ROC/GAL]
	SUB	(361–379)	134.6 ± 1.7	298	ME	[2013ROC/GAL]
	SUB	(298–318)	U68	308	ME	[2011BOO/MON]
	SUB	(344–386)	125.1 ± 1.0	365	ME	[1999OJA/SUU]
	SUB	(386–405)	100.3 ± 5.9	395	ME	[1999OJA/SUU]
	V	(468–528)	92.2	483	A	[1987STE/MAL, 1964EPS/DUR, 1972DYK]
$C_6H_{10}O_5$	[617-55-0]	(*l*) malic acid, dimethyl ester				
	V	(348–516)	58.7	363	A	[1987STE/MAL, 1947STU]
$C_6H_{10}O_5$	[6288-11-5]	methyl[1-(methoxycarbonyl)ethyl]carbonate				
	V	(358–483)	55.9	373	A	[1987STE/MAL]
$C_6H_{10}O_6$	[608-68-4]	(*d*)-dimethyl tartrate				
	FUS		17.36	322.2	DTA	[1981CHI/GAR, 1991CHI/BRA]
	SUB	(310–320)	77.4 ± 8	315	HSA	[1981CHI/GAR]
	SUB	(308–317)	U113	312		[1954CRO/JON, 1977PED/RYL]
	SUB		88.3			[1938WOL/WEG, 1960JON]
	SUB		85.8			[1937DUN/WOL]
	V	(322–365)	76.4	337	A, ME	[1987STE/MAL, 1954BOW/JON]
	V	(375–553)	66.0	390		[1947STU]
$C_6H_{10}O_6$	[608-69-5]	(*dl*)-dimethyl tartrate				
	FUS		26.94	360.2	DTA	[1981CHI/GAR, 1991CHI/BRA]
	SUB	(314–339)	112 ± 5.6	326	HSA	[1981CHI/GAR]
	SUB	(315–358)	113.8	336	ME	[1954CRO/JON, 1977PED/RYL]
	SUB		U95.0			[1938WOL/WEG, 1960JON]
	SUB		U92.5			[1937DUN/WOL]
	V	(373–555)	62.5	388	A	[1987STE/MAL, 1947STU]
$C_6H_{10}O_6$	[5057-96-5]	*meso*-dimethyl tartrate				
	SUB		98.3			[1938WOL/WEG, 1960JON]
	SUB		95.8			[1937DUN/WOL]
$C_6H_{10}O_6$	[2782-07-2]	(D)-galactono-1,4-lactone				
	FUS		35.77	410.3	DSC	[2004FLO/AMA]
$C_6H_{10}O_6$	[1668-08-2]	(L)-galactono-1,4-lactone				
	FUS		35.98	409.8	DSC	[2004FLO/AMA]
$C_6H_{10}O_6$	[6322-07-2]	(D)-gulono-1,4-lactone				
	FUS		40.13	459.3	DSC	[2004FLO/AMA]
$C_6H_{10}O_6$	[1128-23-0]	(L)-gulono-1,4-lactone				
	FUS		41.5	459	DSC	[2004FLO/AMA]
$C_6H_{10}O_6$	[22430-23-5]	(L)-mannono-1,4-lactone				
	FUS		36.13	426.5	DSC	[2004FLO/AMA]
$C_6H_{10}S$	[592-88-1]	diallyl sulfide				
	V	(263–411)	46.6	278		[1999DYK/SVO]
	V	(263–412)	43.2	278	A	[1987STE/MAL, 1947STU]
$C_6H_{11}Br$	[108-85-0]	bromocyclohexane				
	FUS	(8–303)	10.79	216.9	AC	[1995KOB/OGU]
	V	(264–368)	45.3	298	Static	[2008SAR/MOK]
	V	(347–439)	42.8	362		[1997ART/LAF]
$C_6H_{11}BrO_2$	[600-00-0]	ethyl 2-bromo-2-methylpropionate				
	V	(283–437)	45.4	298	A	[1987STE/MAL, 1947STU]
$C_6H_{11}Cl$	[542-18-7]	chlorocyclohexane				
	TRS		7.88	221.1		
	FUS		1.67	228.7	DSC	[2008SIN/MUR]
	TRS	(8–301)	8.11	220.2		

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS	(8–301)	2.02	228.0	AC	[1995KOB/OGU]
	TRS	(5–304)	0.05	120.0		
	TRS	(5–304)	8.01	220.4		
	FUS	(5–304)	2.04	229.3	AC	[1994DIK/KAB]
	V	(264–368)	42.1	298	Static	[2008SAR/MOK]
	V	(313–353)	41.8	298	CGC	[1995CHI/HOS]
	V		40.7 ± 0.1	298	C	[1995XUW/DAJ]
	V		42.9 ± 0.6	298	C	[1994DIK/KAB]
	V	(350–416)	39.3	365	A	[1987STE/MAL, 1969AND/BRA]
$C_6H_{11}Cl$	[6196-85-6]	1-chloro-1-methylcyclopentane				
	V	(239–263)	42.1 ± 0.1	251	ME	[1997BLO/KAB]
	V		39.7 ± 0.1	297	C	[1997BLO/KAB]
$C_6H_{11}ClO$	[2736-40-5]	diethylacetyl chloride				
	V	(313–412)	39.4	328	A	[1987STE/MAL]
$C_6H_{11}ClO$	[2177-22-2]	3-ethyl-3-(chloromethyl)oxetane				
	V		49.7 ± 0.2	298	C	[1971RIN/SUN]
$C_6H_{11}ClO_2$	[17696-64-9]	chloroacetic acid, *sec*-butyl ester				
	V	(290–441)	49.6	305	A	[1987STE/MAL]
$C_6H_{11}ClO_2$	[13361-35-8]	chloroacetic acid, isobutyl ester				
	V	(293–323)	43.9	308	A	[1987STE/MAL]
$C_6H_{11}F$	[372-46-3]	fluorocyclohexane				
	TRS		7.82	186.7		
	FUS		2.58	285.3	DSC	[1986GON/SZW]
	V	(271–301)	37.5 ± 0.3	298	GS	[1997SCH/VER]
	V	(316–373)	35.0	331	A	[1987STE/MAL]
$C_6H_{11}FO_2$	[1578-57-0]	2-fluorohexanoic acid				
	V	(387–411)	80.9	399	A	[1987STE/MAL]
$C_6H_{11}FO_5$	[29702-43-0]	2-deoxy-2-fluoro-(D)-glucopyranose				
	FUS		38.2	427.2	DSC	[1996SCH]
$C_6H_{11}FO_5$	[34168-77-9]	6-deoxy-6-fluoro-(D)-glucopyranose				
	FUS		27.2	412.2	DSC	[1996SCH]
$C_6H_{11}FO_5$	[31001-26-0]	3-deoxy-3-fluoro-(D)-glucopyranose				
	FUS		18.3	378.2	DSC	[1996SCH]
$C_6H_{11}F_3N_2$	[31330-22-0]	*N*, *N*, *N*-trifluorohexaneamidine				
	V		46.5			[1971CAR/ZIM]
$C_6H_{11}I$	[626-62-0]	iodocyclohexane				
	V	(258–308)	49.6 ± 0.1	298	Static	[2010FUL/RUZ]
	V	(313–353)	48.3	298	CGC	[1995CHI/HOS]
	V	(358–408)	43.0	383	A, I	[1987STE/MAL, 1956BRE/UBB]
$C_6H_{11}N$	[628-73-9]	hexanenitrile				
	V	(371–442)	43.3	386	A, EB	[1987STE/MAL, 1973MEY/HOT]
	V	(344–441)	44.6	359	EB	[1971MEY/REN]
	V		47.9 ± 0.1	298	C	[1970HOW/WAD]
	V	(365–437)	49.1	298	EB	[1949DRE/SHR, 1949DRE/MAR, 2005EME/VER]
	V	(293–452)	47.7 ± 0.1	298	MM	[1933HEI, 2005EME/VER]
$C_6H_{11}N$	[542-54-1]	4-methylvaleronitrile				
	V	(332–430)	35.7	347	A	[1987STE/MAL]
$C_6H_{11}NO$	[100-64-1]	cyclohexanone oxime				
	FUS	(5–370)	12.45	362.2	AC	[2008ZAI/PAU]
	FUS		12.7	362.5		[2002STE/CHI6]
	TRS		0.01	240.8		
	TRS		0.09	273.4		
	FUS	(6–450)	12.7	362.6	AC, THBC	[1992KOZ/KAB]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(288–323)	77.6 ± 1.4	310	ME	[2008ZAI/PAU]
	SUB		76.5 ± 1.0	378		[2002STE/CHI6]
	SUB		79.0 ± 2.0	298		[2002STE/CHI6]
	SUB		74.0 ± 0.3	354	C	[1992KOZ/KAB]
	SUB	(288–348)	79.9 ± 0.7	317	ME	[1992KOZ/KAB]
	V	(370–385)	63.1 ± 1.0	298		[2002STE/CHI6]
	V		58.7 ± 0.6	368	C	[1992KOZ/KAB]
	V	(371–446)	59.5 ± 0.5			[1992KOZ/KAB]
$C_6H_{11}NO$	[105-60-2]	ε-caprolactam				
	FUS	(260–370)	16.16	342.2	AC	[2007SHE/ZAI]
	FUS		16.2	342.3	DSC	[2002STE/CHI3]
	FUS	(340–520)	16.1	342.3	THBC	[1992KAB/KOZ, 1996DOM/HEA]
	FUS	(60–350)	16.1	342.3		[1962KOL/PAU, 1996DOM/HEA]
	FUS		16.1	342.4	AC	[1957MAS]
	SUB	(293–338)	86.3	316	ME	[2006ZAI/PAU]
	SUB	(302–339)	86.9	320	GS	[2006ZAI/PAU]
	SUB	(330–340)	89.3 ± 0.8	335	ME	[1992KAB/KOZ]
	SUB		86.3 ± 0.2	338	C	[1992KAB/KOZ]
	SUB		87.3 ± 0.2	298		[1992KAB/KOZ]
	SUB	(258–308)	77.5	273	A	[1987STE/MAL]
	SUB	(294–314)	83.3 ± 0.8			[1953AIH, 1960JON, 1970COX/PIL, 1960AIH2]
	V	(350–568)	69.2 ± 0.3	360	EB	[2002STE/CHI3]
	V	(350–568)	65.7 ± 0.3	400	EB	[2002STE/CHI3]
	V	(350–568)	62.3 ± 0.2	440	EB	[2002STE/CHI3]
	V	(350–568)	59.0 ± 0.2	480	EB	[2002STE/CHI3]
	V	(350–568)	55.7 ± 0.3	520	EB	[2002STE/CHI3]
	V	(350–568)	52.4 ± 0.5	560	EB	[2002STE/CHI3]
	V	(373–543)	62.3	388	A	[1987STE/MAL]
$C_6H_{11}NO$	[820-99-5]	*cis*-2-hexenoic acid amide				
	SUB	(323–333)	80.0	328	A	[1987STE/MAL]
	V	(343–383)	61.7	358	A	[1987STE/MAL]
$C_6H_{11}NO$	[197841-69-3]	*trans*-2-hexenoic acid amide				
	SUB	(353–393)	55.8	368	A	[1987STE/MAL]
$C_6H_{11}NO$	[931-20-4]	1-methyl-2-piperidone				
	V		60.3 ± 0.9	298	C	[2006RIB/CAB]
	V	(341–385)	55.4	356	A	[1987STE/MAL, 1974BEA/MUE]
$C_6H_{11}NO$	[1445-73-4]	1-methyl-4-piperidone				
	V		54.2 ± 1.0	298	C	[2006RIB/CAB]
$C_6H_{11}NO$	[5693-62-9]	2,3,4,5-tetrahydro-6-methoxypyridine				
	V	(292–338)	42.8	307	A	[1987STE/MAL, 1974BEA/MUE]
$C_6H_{11}NO$	[334-25-8]	6-amino-6-oxo-hexanoic acid				
	FUS		40.2			[1971PRY/EFR]
$C_6H_{11}NO_2$	[1122-60-7]	nitrocyclohexane				
	V	(298–318)	54.7 ± 0.6	298	GS	[1997VER3]
$C_6H_{11}NO_2$	[52-52-8]	1-aminocyclopentanecarboxylic acid (cycloleucine)				
	SUB	(443–468)	123.4 ± 4	455	ME	[1965SVE/CLY, 1964CLY/SVE, 1987STE/MAL]
$C_6H_{11}NO_2$	[6280-16-6]	lactic acid *N*-allyl amide				
	V	(359–419)	78.2	374	A	[1987STE/MAL, 1950RAT/FIS]
$C_6H_{11}NO_2$	[54953-79-6]	5,5-dimethylperhydro-1,3-oxazine-2-one				
	FUS	(5–500)	28.5	399	AC	[1996LEB/SMI]
$C_6H_{11}NO_3$	[1906-82-7]	ethyl acetamidoacetate				
	V	(383–466)	69.4	398	A, EB	[1987STE/MAL, 1972DYK, 1953MEL/VIO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{11}NO_3$	[1596-84-5]	*N*-dimethylaminosuccinamic acid				
	FUS		36.97	431.4	DSC	[1990DON/DRE]
$C_6H_{11}NS$	[13070-07-0]	2-piperidinethione				
	FUS		16.32			[1974BEA/MUE]
	SUB	(363–370)	81.2 ± 2.9	366	B	[1974BEA/MUE]
	V	(363–370)	63.3	366	A	[1987STE/MAL, 1974BEA/MUE]
$C_6H_{11}NS$	[19766-29-1]	2,3,4,5-tetrahydro-(methylthio)pyridine				
	V	(313–351)	52.6	328	A	[1987STE/MAL, 1974BEA/MUE]
$C_6H_{11}N_2O_3PS_2$	[950-37-8]	*S*-2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-ylmethyl *O*, *O*-dimethyl phosphorodithioate				
	FUS		28.54	315.1	DSC	[1990DON/DRE]
$C_6H_{11}N_3$	[19573-22-9]	azidocyclohexane				
	V	(280–303)	49.2 ± 0.5	298	GS	[2011VER/EME2]
$C_6H_{11}N_3O_6$	[62154-78-3]	2,3,3-trinitro-2-methylpentane				
	SUB		92.0 ± 0.8	298	C	[2011MIR/KON]
	SUB		90.8	298		[1999MIR/VOR]
$C_6H_{11}N_5O_8$	[1924-47-6]	*N*-(2,2-dinitropropyl)-2,2-dinitro-1-propanamine				
	SUB		105.4 ± 4.2			[1973DEK/OON, 1977PED/RYL]
C_6H_{12}	[4806-61-5]	ethylcyclobutane				
	V		31.2 ± 0.2	298	C	[1983FUC/HAL]
	V		32.6 ± 0.8	298	EB	[1974GOO/MOO]
C_6H_{12}	[110-82-7]	cyclohexane				
	FUS		2.60	279.8	DSC	[2005HUA/SIM]
	TRS		6.69	186.1		
	FUS	(78–350)	2.63	279.7	AC	[2004NAN/TAN]
	TRS		6.79	186.2		
	FUS		2.68	279.8	DTA	[1994TAN/SAB3]
	TRS		6.73	186.0		[1984DOM/EVA]
	TRS		6.99	186.1		
	FUS		2.62	279.9		[1952KAA/COO]
	TRS		6.69	186.1		
	FUS		2.63	279.8		[1943AST/SZA]
	TRS		6.74	186.1		
	FUS		2.68	279.8		[1996DOM/HEA, 1943RUE/HUF]
	TRS		6.82	186.4		
	FUS		2.73	279.4	C	[1942ZIE/AND]
	TRS		6.23	185.9		
	FUS		2.42	279.3		[1930PAR/HUF]
	SUB	(223–280)	27.6	265	A	[1987STE/MAL]
Note: The Antoine coefficients given in [1987STE/MAL] for solid cyclohexane likely came from [1974JAC]—there is likely a typographical error in the C coefficient						
	SUB	(223–278)	36.4 ± 0.7		B	[1974JAC]
	SUB		46.6	186	B	[1963BON]
	SUB	(268–278)	37.2	273		[1960JON]
	SUB	(228–268)	37.7	248	A	[1947STU]
	SUB	(269–279)	36.5	274	A	[1934ROT/NAG]
	V	(296–353)	33.1	315	EB	[2009GIE/KOS]
	V	(300–345)	32.7	315		[2002LUB/BAN]
	V	(360–470)	32.2	375		[1993LEE/HOL]
	V	(313–336)	31.9	324	EB	[1995DIO/SAN]
	V	(313–336)	33.1	298	EB	[1995DIO/SAN]
	V		32.3	314	C	[1988DON/LIN]
	V		31.1	332	C	[1988DON/LIN]
	V		30.3	345	C	[1988DON/LIN]
	V		30.0	355	C	[1988DON/LIN]
	V	(353–414)	30.9	368	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(412–491)	29.6	427	A	[1987STE/MAL]
	V	(489–553)	29.6	504	A	[1987STE/MAL]
	V	(300–352)	32.6	315	EB	[1983PAL/CHO]
	V		33.0 ± 0.1	298	C	[1982FUR/SAK]
	V		33.0	298		[1981SHI/SAI]
	V		33.0 ± 0.1	298	C	[1979MAJ/SVO]
	V		32.3 ± 0.1	313	C	[1979MAJ/SVO]
	V		31.2 ± 0.1	333	C	[1979MAJ/SVO]
	V		31.0 ± 0.1	338	C	[1979MAJ/SVO]
	V		30.4 ± 0.1	348	C	[1979MAJ/SVO]
	V		30.1 ± 0.1	353	C	[1979MAJ/SVO]
	V		32.2 ± 0.1	313	C	[1973SVO/VES]
	V		31.9 ± 0.1	323	C	[1973SVO/VES]
	V		31.1 ± 0.1	333	C	[1973SVO/VES]
	V		30.6 ± 0.1	343	C	[1973SVO/VES]
	V		30.1 ± 0.1	354	C	[1973SVO/VES]
	V		32.9 ± 0.3	298	ME	[1972SAB/CHA]
	V		32.9	298		[1971MOR]
	V		33.0	298		[1971WIL/ZWO]
	V	(303–343)	32.5	318		[1968GAW/SWI]
	V	(298–348)	32.9	313		[1967CRU/CUT]
	V	(316–354)	32.8	331		[1965MAR/SUS]
	V		33.0 ± 0.1	298	C	[1960WAD]
	V		31.4 ± 0.1	324	C	[1951MCC/PER]
	V		30.4 ± 0.1	346	C	[1951MCC/PER]
	V		33.0	298	C	[1947OSB/GIN]
	V		30.1	354		[1946SPI/PIT]
	V	(293–355)	32.9	308	A, MM	[1987STE/MAL, 1945WIL/TAY]
	V		33.3 ± 0.1	298	C	[1943AST/SZA]
	V		33.5	298		[1927NAG]
C_6D_{12}	[1735-17-7]	cyclohexane-d_{12}				
	V	(283–353)	33.1	298		[1953DAV/SCH]
C_6H_{12}	[96-37-7]	methylcyclopentane				
	FUS	(13–307)	6.93	130.7		[1996DOM/HEA, 1946DOU/HUF2]
	FUS		6.88	130.1	C	[1931HUF/PAR]
	V	(300–345)	31.4	315		[2010SAP/UUS]
	V		31.6	298		[1971WIL/ZWO]
	V		31.3 ± 0.1	304	C	[1959MCC/PEN]
	V		30.2 ± 0.1	326	C	[1959MCC/PEN]
	V		29.1 ± 0.1	345	C	[1959MCC/PEN]
	V		31.6 ± 0.1	298	C	[1947OSB/GIN]
	V	(288–346)	31.9	303	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_6H_{12}	[592-41-6]	1-hexene				
	FUS	(11–308)	9.35	133.4	C	[1996DOM/HEA, 1957MCC/FIN]
	V	(298–336)	30.4	313		[2009MAR/AUC]
	V	(300–337)	30.6	315		[2001SEG/LAM]
	V	(273–343)	31.6	288	A	[1987STE/MAL]
	V		30.6	298		[1971WIL/ZWO]
	V	(289–337)	30.6	298		[1956CAM/ROS]
	V	(289–337)	31.0	304	MM	[1950FOR/CAM]
C_6H_{12}	[7688-21-3]	*cis*-2-hexene				
	FUS		8.88	132		[1990MES/TOD]
	V	(278–343)	32.2	293	A	[1987STE/MAL]
	V		31.5	298		[1971WIL/ZWO]
	V	(298–342)	31.5	298		[1956CAM/ROS]
C_6H_{12}	[4050-45-7]	*trans*-2-hexene				
	V	(283–342)	32.2	298	A	[1987STE/MAL]
	V		31.6	298		[1971WIL/ZWO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(292–341)	31.5	298		[1956CAM/ROS]
C_6H_{12}	[7642-09-3]	*cis*-3-hexene				
	V	(276–348)	32.1	291	A	[1987STE/MAL]
	V		31.3	298		[1971WIL/ZWO]
	V	(185–340)	31.3	298		[1956PEN/SCO]
C_6H_{12}	[13269-52-8]	*trans*-3-hexene				
	V	(278–341)	32.3	293	A	[1987STE/MAL]
	V		31.6	298		[1971WIL/ZWO]
	V	(291–341)	31.5	298		[1956PEN/SCO]
C_6H_{12}	[763-29-1]	2-methyl-1-pentene				
	V	(272–341)	31.6	287	A	[1987STE/MAL]
	V		30.5	298		[1971WIL/ZWO]
	V	(300–335)	30.5	298		[1956CAM/ROS]
C_6H_{12}	[760-20-3]	3-methyl-1-pentene				
	V	(265–333)	30.0	280	A	[1987STE/MAL]
	V		28.6	298		[1971WIL/ZWO]
	V	(287–328)	28.6	298		[1956CAM/ROS]
C_6H_{12}	[691-37-2]	4-methyl-1-pentene				
	FUS		4.93	118.9		[1994LEB/SMI3]
	V	(310–360)	28.6 ± 0.2	298	EB	[1997STE/CHI]
	V	(310–360)	27.4 ± 0.3	320	EB	[1997STE/CHI]
	V	(310–360)	26.2 ± 0.4	340	EB	[1997STE/CHI]
	V	(310–360)	24.9 ± 0.5	360	EB	[1997STE/CHI]
	V	(265–333)	30.1	280	A	[1987STE/MAL]
	V		28.7	298		[1971WIL/ZWO]
	V	(287–328)	28.7	298		[1956PEN/SCO]
C_6H_{12}	[625-27-4]	2-methyl-2-pentene				
	V	(277–346)	32.4	292	A	[1987STE/MAL]
	V		31.6	298		[1971WIL/ZWO]
	V	(292–341)	31.6	298		[1956PEN/SCO]
C_6H_{12}	[922-62-3]	*cis*-3-methyl-2-pentene				
	V	(277–347)	32.2	292	A	[1987STE/MAL]
	V		31.3	298		[1971WIL/ZWO]
	V	(300–344)	32.1	298		[1956CAM/ROS]
C_6H_{12}	[616-12-6]	*trans*-3-methyl-2-pentene				
	V	(280–349)	32.8	295	A	[1987STE/MAL]
	V		32.1	298		[1971WIL/ZWO]
	V	(292–341)	31.3	298		[1956CAM/ROS]
C_6H_{12}	[691-38-3]	*cis*-4-methyl-2-pentene				
	V	(267–330)	30.8	282	A	[1987STE/MAL]
	V		29.5	298		[1971WIL/ZWO]
	V	(300–330)	29.5	298		[1956CAM/ROS]
C_6H_{12}	[674-76-0]	*trans*-4-methyl-2-pentene				
	V	(269–337)	31.2	284	A	[1987STE/MAL]
	V		30.0	298		[1971WIL/ZWO]
	V	(291–332)	30.0	298		[1956CAM/ROS]
C_6H_{12}	[563-78-0]	2,3-dimethyl-1-butene				
	V	(267–335)	30.5	282	A	[1987STE/MAL]
	V		29.2	298		[1971WIL/ZWO]
	V	(289–329)	29.2	298		[1956CAM/ROS]
C_6H_{12}	[558-37-2]	3,3-dimethyl-1-butene				
	TRS		4.35	124.9		
	FUS		1.09	158.4		[1996DOM/HEA, 1938KEN/SHO]
	V	(254–316)	28.6	269	A	[1987STE/MAL]
	V		26.6	298		[1971WIL/ZWO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(264–314)	27.4	298		[1971BAG/MAL]
	V	(281–315)	26.6	298		[1956CAM/ROS]
C_6H_{12}	[563-79-1]	2,3-dimethyl-2-butene				
	TRS		3.53	196.8		
	FUS		6.44	198.9		[1996DOM/HEA, 1955SCO/FIN]
	TRS		4.58	196.6		
	FUS		5.46	198.5		[1936PAR/TOD2]
	V	(337–388)	31.1	352		[2011FEN/DON]
	V	(313–346)	32.1	328		[2004UUS/POK]
	V	(289–347)	32.6	298		[1956CAM/ROS]
	V		32.5	298		[1971WIL/ZWO]
	V	(289–347)	32.7	304		[1971BAG/MAL]
	V	(282–348)	33.1	297	A	[1987STE/MAL, 1955CUM/MCL]
	V		32.9 ± 0.1	292	C	[1955SCO/FIN]
	V		32.0 ± 0.1	308	C	[1955SCO/FIN]
	V		30.9 ± 0.1	326	C	[1955SCO/FIN]
	V		29.7 ± 0.1	346	C	[1955SCO/FIN]
C_6H_{12}	[760-21-4]	2-ethyl-1-butene				
	V	(289–338)	31.0	298		[1956CAM/ROS]
$C_6H_{12}Br_2$	[58133-26-9]	1,1-dibromohexane				
	V	(378–526)	51.6	393	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_6H_{12}Br_2$	[624-20-4]	1,2-dibromohexane				
	V	(363–450)	56.5 ± 2.0	298		[1993VAR/PUC]
$C_6H_{12}ClNO$	[3240-94-6]	4-(2-chloroethyl)morpholine				
	V	(273–333)	53.8	288	A	[1987STE/MAL, 1972DYK]
$C_6H_{12}Cl_2$	[62017-16-7]	1,1-dichlorohexane				
	V	(330–440)	48.7	298		[1987VAR/LOS2, 1991BAS/SVO]
	V	(345–484)	45.1	360	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_6H_{12}Cl_2$	[2162-92-7]	(*dl*)-1,2-dichlorohexane				
	V	(350–440)	48.8	298		[1991BAS/SVO]
	V	(352–442)	44.9	367	A	[1987STE/MAL]
	V		48.2 ± 0.2	298	C	[1980VAR/PIS]
	V		47.9 ± 0.7	298	EB	[1975PIS/ROZ2]
$C_6H_{12}Cl_2$	[2163-00-0]	1,6-dichlorohexane				
	V	(380–480)	56.3	298		[1988VAR/LOS, 1991BAS/SVO]
$C_6H_{12}Cl_2O$	[108-60-1]	bis(2-chloro-1-methylethyl) ether				
	V	(302–456)	53.6	317	A	[1987STE/MAL, 1947STU]
$C_6H_{12}Cl_2O_2$	[14689-97-5]	bis(2-chloroethyl)acetaldehyde acetal				
	V	(329–486)	59.4	344	A	[1987STE/MAL, 1947STU]
$C_6H_{12}Cl_3N$	[555-77-1]	bis(2-chloroethyl)acetaldehyde acetal				
	V	(273–333)	65.0	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1972DYK]
$C_6H_{12}Cl_3O_4P$	[115-96-8]	tris(2-chloroethyl)phosphate				
	V	(333–363)	82.0	348	GC-RT	[2014BRO/JAN]
	V	(293–445)	36.7	308	A	[1987STE/MAL, 1972DYK]
$C_6H_{12}F_2$	[62127-41-7]	1,1-difluorohexane				
	V	(290–407)	37.7	305	A, EST	[1987STE/MAL, 1956MAN, 1972DYK]
$C_6H_{12}F_3OP$	[26348-85-6]	methyl (trifluoromethyl)phosphinous acid, *tert*-butyl ester				
	V	(273–329)	39.7	296		[1970BUR/KAN]
$C_6H_{12}F_3PS$	[26348-87-8]	methyl (trifluoromethyl)phosphinothious acid, *tert*-butyl ester				
	V	(296–337)	43.2	312		[1970BUR/KAN]
$C_6H_{12}F_6N_3OP$	[30295-34-2]	bis(dimethylamino)bis(trifluoromethyl)nitroxy phosphine				
	V	(307–371)	42.7	339		[1970ELN/EME]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{12}F_4N_2$	[16096-76-7]	*N*, *N*, *N′*, *N′*-tetrafluoro-2-methyl-1,2-pentanediamine				
	V	(253–293)	42.8	278	A, IPM	[1987STE/MAL, 1963GOO/DOU, 1962GOO/DOU]
$C_6H_{12}N_2$	[3010-02-4]	(diethylamino)acetonitrile				
	V	(283–318)	49.9 ± 0.3		GS	[1997WEL/VER]
$C_6H_{12}N_2$	[280-57-9]	1,4-diazabicyclo[2.2.2]octane				
	TRS		10.54	351.1		
	FUS	(300–450)	7.45	433	AC	[1996DOM/HEA, 1963TRO/WES]
	SUB	(324–351)	61.9 ± 3.3	338		[1960WAD/KIS, 1970COX/PIL]
	SUB	(353–369)	52.3 ± 3.3	361		[1960WAD/KIS, 1970COX/PIL]
	SUB	(323–373)	54.4	348		[1963BON]
$C_6H_{12}N_2$		3,3,4,4-tetramethyl-Δ1-1,2-diazetine				
	SUB		62.3 ± 1.0	298	C	[1978MON/ENG]
$C_6H_{12}N_2O$	[7226-23-5]	1,3-dimethyl-3,4,5,6-tetrahydro-2(1*H*)pyrimidinone				
	V	(370–520)	58.0	400	EB	[1987KNE/ZON]
$C_6H_{12}N_2O$	[18503-52-1]	1,4-diazabicyclo[2.2.2]octane *N*-oxide				
	TRS		3.4	418		
	FUS		0.45	493	DSC	[1990MIH/BAS, 1987MIH/BAS]
$C_6H_{12}N_2O$	[2158-03-4]	1-piperidinecarboxamide				
	SUB		100.2 ± 1.2	298	C	[2007RIB/CAB2]
$C_6H_{12}N_2O$	[4138-26-5]	3-piperidinecarboxamide				
	SUB		112.5 ± 1.3	298	C	[2007RIB/CAB2]
$C_6H_{12}N_2O$	[39546-32-2]	4-piperdinecarboxamide				
	SUB		123.6 ± 1.3	298	C	[2007RIB/CAB2]
$C_6H_{12}N_2OS$	[62528-85-2]	tetramethyl monothiooxamide				
	FUS		17.0	350.2	DSC	[2003CLO/JAN]
	V		59.0	508	TGA, DSC	[2003CLO/JAN]
$C_6H_{12}N_2O_2$	[1608-14-6]	*N*, *N*, *N′*, *N′*-tetramethyloxamide				
	FUS		18.0	352.2		[2003CLO/JAN]
	V		52.5	460	TGA, DSC	[2003CLO/JAN]
$C_6H_{12}N_2O_2$	[628-94-4]	adipamide				
	TRS		1.59	458.4		
	FUS		52.72	499.1	DSC	[2006BAD/DEL]
	FUS		47.8			[1971PRY/EFR]
$C_6H_{12}N_2O_2$	[19701-83-8]	*N*-acetyl-L-alanine-*N′*-methylamide				
	TRS		5.59	395.1		
	FUS		24.86	454.8	DSC	[2014BAD/DEL]
$C_6H_{12}N_2O_2$	[34276-27-2	*N*-acetyl-DL-alanine-*N′*-methylamide				
	TRS		7.69	368.4		
	FUS		15.91	411.9	DSC	[2014BAD/DEL]
Note: Authors of [2014BAD/DEL] noted that the melting point differed considerably from the literature value.						
$C_6H_{12}N_2O_3$	[2140-53-6]	β-alanyl-β-alanine				
	FUS		58.3	480.1	DSC	[1996DOM/HEA, 1990BAD/KUL]
$C_6H_{12}N_2O_3$	[2867-20-1]	α-alanyl-α-alanine (DL)				
	FUS		33.2	483.2	DSC	[1996DOM/HEA, 1990BAD/KUL]
$C_6H_{12}N_2O_3$	[1948-31-8]	L-α-alanyl-L-α-alanine				
	SUB	(438–481)	118 ± 8		ME, MS	[2012BAD/TYU]
$C_6H_{12}N_2O_4$	[3964-18-9]	2,3-dinitro-2,3-dimethylbutane				
	TRS		1.0	322		
	TRS		18.0	389		
	FUS		8.8	473	DSC	[1995JON/AUG, 2002JON/LIG]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		0.6	318		
	TRS		23	388	DTA	[1994SMI/MAT, 2002JON/LIG]
	SUB		75.3 ± 0.8	298	C	[2011MIR/KON]
	SUB		74 ± 5		TGA	[2002JON/LIG]
	SUB		79.5 ± 0.8	298		[1999MIR/VOR]
	SUB	(303–330)	85 ± 2		ME	[1994SMI/MAT, 2002JON/LIG]
	SUB	(253–323)	94		GC	[1991ELI, 2002JON/LIG]
$C_6H_{12}N_2O_6$	[99115-63-6]	2,5-hexanediol dinitrate				
	SUB	(293–313)	119	303	A	[1987STE/MAL, 1957KEM/GOL, 1972DYK]
	V	(293–313)	54.4	303	B, GS	[1957KEM/GOL, 1972DYK]
$C_6H_{12}N_2O_8$	[111-22-8]	triethylene glycol dinitrate				
	V	(303–348)	88.3	318	A	[1987STE/MAL, 1972DYK, 1963WOO/ADI]
$C_6H_{12}N_2S_2$	[35840-78-9]	tetramethyl dithiooxamide				
	FUS		21.0	409.2	DSC	[2003CLO/JAN]
	V		60.5	533	TGA, DSC	[2003CLO/JAN]
$C_6H_{12}N_4$	[100-97-0]	1,3,5,7-tetraazatricyclo[3.3.1.1^{3,7}]decane				
	SUB	(339–378)	77.7 ± 0.4	359	GS	[2002VER2]
	SUB	(339–378)	79.6 ± 0.4	298	GS	[2002VER2]
	SUB	(298–453)	76.8	313	A	[1987STE/MAL]
	SUB	(302–328)	78.8	316	TE, ME	[1983DEW/VAN]
	SUB		74.9 ± 2.9	298		[1960WAD/KIS, 1970MAN/RAP]
	SUB	(281–298)	74.1 ± 0.8	289	TE	[1960BUD]
	SUB	(293–553)	75.4	423		[1958KLI/STR, 2002VER2, 1957STR/KLI]
	SUB	(293–553)	79.4	298		[1958KLI/STR, 2002VER2]
$C_6H_{12}O$	[1003-38-9]	(*dl*)-2,5-dimethyltetrahydrofuran				
	V	(278–370)	35.4	293	A	[1987STE/MAL]
$C_6H_{12}O$	[1436-34-6]	1,2-epoxyhexane				
	V	(300–390)	43.1	315	A	[1987STE/MAL, 1969VOJ/CIH, 1984BOU/FRI]
$C_6H_{12}O$	[1192-22-9]	2-methyl-2,3-epoxypentane				
	V	(306–369)	40.6	321	A	[1987STE/MAL, 1974LOG/FRO]
$C_6H_{12}O$	[6140-80-3]	allyl isopropyl ether				
	V	(253–415)	36.1	268	A	[1987STE/MAL]
	V	(229–353)	36.8	244	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O$	[1471-03-0]	allyl propyl ether				
	V	(261–428)	37.5	276	A	[1987STE/MAL]
	V	(234–364)	36.4	249	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O$	[111-34-2]	butyl vinyl ether				
	V	(311–403)	36.7 ± 0.2	298	EB	[1996STE/CHI2]
	V	(311–403)	35.2 ± 0.2	320	EB	[1996STE/CHI2]
	V	(311–403)	32.5 ± 0.2	360	EB	[1996STE/CHI2]
	V	(311–403)	29.6 ± 0.2	400	EB	[1996STE/CHI2]
	V	(353–393)	36.5	298	CGC	[1995CHI/HOS]
	V	(269–368)	36.1	284	A	[1987STE/MAL]
$C_6H_{12}O$	[109-53-5]	isobutyl vinyl ether				
	V	(266–357)	37.4	281	A	[1987STE/MAL]
$C_6H_{12}O$	[108-93-0]	cyclohexanol				
	TRS		8.7	245.2		
	FUS		1.73	298.2	DSC	[2009SIN/MUR]
	TRS	(170–320)	8.66	264.9		
	FUS	(170–320)	1.81	297.9	AC	[1990MAY/RAC]
Note: Authors of [1990MAY/RAC] give the transition at 264.9 K as a II—>I transition. The paper also gives values of 8.62 kJ/mole and 244.5 K for a III —>I transition						
	TRS		8.21	263.5		
	FUS		1.7	297		[1984PIN/POS, 1968ADA/SUG, 1996DOM/HEA]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS	(16–298)	8.21	263.5		
	FUS	(16–298)	1.7	297.0		[1929KEL5]
	FUS		1.87		CR	[1912DEF]
	SUB	(272–298)	60.7	285	A	[1987STE/MAL, 1948NIT/SEK2]
	V	(322–433)	60.1	337		[2004STE/SUN]
	V	(395–426)	49.1	410	EB	[2002SII/KIR2]
	V	(390–430)	49.8	405		[2002SWI/MAL]
	V		62.0 ± 0.3	298	C	[1999COS/EUS]
	V	(288–328)	61.2 ± 0.6	308	GS	[1998VER3]
	V	(288–328)	61.8 ± 0.6	298	GS	[1998VER3]
	V	(341–471)	54.8 ± 0.5	360	EB	[1997STE/CHI3]
	V	(341–471)	49.3 ± 0.4	400	EB	[1997STE/CHI3]
	V	(341–471)	46.6 ± 0.4	420	EB	[1997STE/CHI3]
	V	(341–471)	40.9 ± 0.6	460	EB	[1997STE/CHI3]
	V	(341–471)	63.5 ± 0.7	298	EB	[1997STE/CHI3]
	V	(323–373)	61.3	298	CGC	[1995CHI/HOS]
	V	(350–456)	55.0	365	EB	[1987AMB/GHI2]
	V	(318–434)	59.9	333	A	[1987STE/MAL]
	V	(300–434)	62.7	315	A	[1987STE/MAL]
	V	(404–432)	49.3	418		[1984CAS/FRA2]
	V	(303–373)	58.4	318		[1984SIP/WIE]
	V	(299–319)	60.4	309		[1975CAB/CON2]
	V		62.0 ± 0.9	298		[1975CAB/CON2]
	V		62.0 ± 0.2	298	C	[1968PLA/WIL]
	V		62.0 ± 0.3	298		[1966WAD]
	V		62.0 ± 0.2		C	[1962SEL/SUN]
	V		45.4	434		[1962HEN/WEB, 1997STE/CHI3]
	V		46.9	421		[1962HEN/WEB, 1997STE/CHI3]
	V		53.9	362		[1962HEN/WEB, 1997STE/CHI3]
	V	(367–433)	52.6	382		[1960NOV/MAT2, 1960NOV/MAT]
	V		42.4	434		[1957GLA/RUL, 1997STE/CHI3]
	V	(307–422)	54.8	322		[1946THO]
	V		45.5 ± 0.1	432		[1931MAT/FEH, 1997STE/CHI3]
	V		48.9	433		[1912DEF, 1997STE/CHI3]
$C_6H_{12}O$	[4798-44-1]	1-hexen-3-ol				
	V	(238–308)	55.2 ± 0.1	298	Static	[2015STE/FUL]
$C_6H_{12}O$	[928-96-1]	*cis*-3-hexen-1-ol				
	V	(238–308)	58.3 ± 0.1	298	Static	[2015STE/FUL]
$C_6H_{12}O$	[928-95-0]	*trans*-2-hexen-1-ol				
	V	(238–308)	59.6 ± 0.1	298	Static	[2015STE/FUL]
$C_6H_{12}O$	[821-41-0]	5-hexen-1-ol				
	V		60.2 ± 0.1	298	C	[1996ULB/KLU]
	V		58.0 ± 0.1	343	C	[1996ULB/KLU]
	V		55.7 ± 0.1	358	C	[1996ULB/KLU]
$C_6H_{12}O$	[565-61-7]	(*dl*)-3-methyl-2-pentanone				
	V	(286–400)	39.8	301	A	[1987STE/MAL]
	V	(283–395)	41.5	298	A	[1987STE/MAL]
	V	(385–455)	36.5	400	A	[1987STE/MAL]
	V	(283–457)	41.2	298		[1975AMB/ELL]
$C_6H_{12}O$	[591-78-6]	2-hexanone				
	FUS	(12–382)	14.9	217.7	AC	[1996DOM/HEA, 1970AND/COU]
	V	(359–401)	39.0	374	EB	[2002SII/KIR]
	V		43.1 ± 0.1	298	C	[1992SVO/KUB]
	V		42.5 ± 0.1	308	C	[1992SVO/KUB]
	V		41.6 ± 0.1	323	C	[1992SVO/KUB]
	V		40.7 ± 0.1	338	C	[1992SVO/KUB]
	V		40.1 ± 0.1	348	C	[1992SVO/KUB]
	V		39.5 ± 0.1	358	C	[1992SVO/KUB]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(293–411)	40.8	308	A	[1987STE/MAL]
	V	(279–423)	43.8	294	A	[1987STE/MAL]
	V	(310–427)	41.5	325	A	[1987STE/MAL]
	V	(421–523)	36.7	436	A	[1987STE/MAL]
	V	(513–587)	36.1	528	A	[1987STE/MAL]
	V	(297–334)	42.2	315		[1983MAR/SHV]
	V		43.1 ± 0.1	298	C	[1983UCH/MAJ]
	V		42.3 ± 0.5	298	C	[1981GAT/STR]
	V		43.0 ± 0.3	298	GCC	[1979SAL/PEA]
	V	(307–482)	42.9	298		[1975AMB/ELL]
	V		42.2 ± 0.1	298	C	[1970HAR/HEA]
	V	(280–400)	53.8	295		[1947STU]
$C_6H_{12}O$	[589-38-8]	3-hexanone				
	TRS	(12–321)	0.68	145		
	FUS	(12–321)	13.47	217.7	AC	[1996DOM/HEA, 1970AND/COU]
	V	(408–517)	36.5	423	A	[1987STE/MAL]
	V	(511–583)	35.4	526	A	[1987STE/MAL]
	V		40.6 ± 0.1	298	C	[1983UCH/MAJ]
	V		42.3 ± 0.3	298	GCC	[1979SAL/PEA]
	V	(348–413)	38.9	363	A	[1987STE/MAL, 1975AMB/ELL]
	V		42.3	298		[1975AMB/ELL]
	V	(292–406)	42.2	307	A	[1987STE/MAL, 1972DYK]
	V		41.9 ± 0.2	298	C	[1970HAR/HEA]
	V		38.4 ± 0.1	354	C	[1967HAL/LEE]
	V		37.0 ± 0.1	374	C	[1967HAL/LEE]
	V		35.4 ± 0.1	396	C	[1967HAL/LEE]
	V	(349–406)	38.8	364	GS, EB	[1965COL/COU]
$C_6H_{12}O$	[75-97-8]	3,3-dimethyl-2-butanone (pinacolone)				
	FUS	(12–362)	11.34	221.7	AC	[1996DOM/HEA, 1970AND/COU]
	V		37.8 ± 0.1	308	C	[1992SVO/KUB]
	V		37.5 ± 0.1	313	C	[1992SVO/KUB]
	V		36.9 ± 0.1	323	C	[1992SVO/KUB]
	V		36.7 ± 0.1	328	C	[1992SVO/KUB]
	V		35.8 ± 0.1	338	C	[1992SVO/KUB]
	V		35.4 ± 0.1	343	C	[1992SVO/KUB]
	V		35.0 ± 0.1	348	C	[1992SVO/KUB]
	V	(311–381)	36.9	326	A	[1987STE/MAL]
	V	(363–400)	34.9	378	A	[1987STE/MAL]
	V	(396–509)	33.8	411	A	[1987STE/MAL]
	V	(491–567)	33.1	506	A	[1987STE/MAL]
	V		40.4 ± 0.4	298	C	[1981GAT/STR]
	V	(289–402)	38.3	304	A	[1987STE/MAL, 1975AMB/ELL]
	V		38.3	298		[1975AMB/ELL]
	V		36.1	338	C	[1973GEI/QUI]
	V		37.9 ± 0.1	298	C	[1970HAR/HEA]
$C_6H_{12}O$	[108-10-1]	4-methyl-2-pentanone (methyl isobutyl ketone)				
	V	(332–392)	38.0	348		[2014NEG/MOK]
	V	(340–389)	37.6	355		[2012LAA/ZAI]
	V	(321–397)	38.7	336		[2009MAR/LLA]
	V		40.1 ± 0.1	308	C	[1992SVO/KUB]
	V		39.0 ± 0.1	323	C	[1992SVO/KUB]
	V		38.0 ± 0.1	338	C	[1992SVO/KUB]
	V		37.4 ± 0.1	348	C	[1992SVO/KUB]
	V	(309–416)	39.2	324		[1988AMB/GHI3]
	V	(281–400)	42.5	296	A	[1987STE/MAL]
	V	(349–389)	37.0	365	EB	[1985RED/RAO]
	V		42.5 ± 0.1	298	C	[1983UCH/MAJ]
	V	(282–456)	41.0	298		[1975AMB/ELL]
	V		37.6	347	C	[1973GEI/QUI]
	V	(294–390)	41.2	309	A	[1987STE/MAL, 1952FUG/BOW]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{12}O$	[565-69-5]	2-methyl-3-pentanone				
	V	(280–387)	41.0	295	A	[1987STE/MAL]
	V	(377–450)	36.2	392	A	[1987STE/MAL]
	V	(280–452)	40.5	298		[1975AMB/ELL]
	V	(300–387)	43.4	315	A	[1987STE/MAL, 1974LOG/FRO]
	V		39.8 ± 0.2	298	C	[1970SEL2]
$C_6H_{12}O$	[66-25-1]	hexanal				
	FUS		13.3	214.9		
	TRS (liq anomaly)		0.34	243.2	AC	[1993LEB/VAS, 1991VAS/BYK]
	V	(358–425)	38.6	375		[2014MEN/BEJ]
	V	(322–402)	40.8	337	EB	[2006PAL/ORA]
	V	(287–309)	42.5 ± 0.4	298	GS	[2003VER/KRA2]
	V		42.3 ± 0.1	298		[1981DYA/KOR]
	V	(315–402)	41.0	330		[1979MAR/SAC]
$C_6H_{12}OS$	[999-90-6]	*S*-butyl thiolacetate				
	V		48.1 ± 0.2	298	C	[1966WAD]
$C_6H_{12}OS$	[999-90-6]	*S*-*tert*-butyl thiolacetate				
	V		42.9 ± 0.2	298	C	[1966WAD]
$C_6H_{12}O_2$	[1792-81-0]	*cis*-1,2-cyclohexanediol				
	TRS	(173–368)	19.9	360.4		
	FUS	(173–368)	3.3	371.6	DSC	[2008MAR/EUS]
	FUS		20.27	373.2	DSC	[2002ZHO/PEN, 2003ZHO/ZHA]
	TRS		19.89	360.4		
	FUS		3.32	371.6	DSC	[1995MAR/COS]
	SUB	(298–353)	91.3 ± 0.5	298	GS	[2015EME/VER3]
	SUB		89.0 ± 3.0	298	C	[1999COS/EUS]
	SUB (cryst. I)		70.0 ± 3.0	366	C	[1995MAR/COS]
	SUB (cryst. III)		88.0 ± 1.9	343	C	[1995MAR/COS]
	SUB	(289–320)	43.7	304	ME	[1987STE/MAL, 1940ZIL]
$C_6H_{12}O_2$	[1460-57-7]	*trans*-1,2-cyclohexanediol				
	FUS	(173–373)	21.0	382.6	DSC	[2008MAR/EUS]
	FUS		16.37	375.7	DSC	[2002ZHO/PEN, 2003ZHO/ZHA]
	FUS		18.51	372.3	DSC	[1995MAR/COS]
	SUB	(296–350)	90.4 ± 0.4	298	GS	[2015EME/VER3]
	SUB		85.9 ± 1.4	343	C	[1995MAR/COS]
	SUB	(289–320)	42.5	304	ME	[1987STE/MAL, 1940ZIL]
$C_6H_{12}O_2$	[931-71-5]	*cis*-1,4-cyclohexanediol				
	TRS		14.1	374.3		
	FUS		1.9	381.7	DSC	[2014BEB/ROS]
$C_6H_{12}O_2$	[126-39-6]	2-ethyl-2-methyl-1,3-dioxolane				
	V	(274–313)	44.8 ± 0.3	298	GS	[2002VER]
	V	(274–313)	43.1 ± 0.3		GS	[1998VER/PEN]
$C_6H_{12}O_2$	[3390-13-4]	2-propyl-1,3-dioxolane				
	V	(278–313)	45.3 ± 0.3	298	GS	[1998VER/PEN, 2002VER]
$C_6H_{12}O_2$	[1121-61-5]	4-ethyl-1,3-dioxane				
	V	(362–412)	39.3	377	A	[1987STE/MAL]
$C_6H_{12}O_2$	[766-20-1]	2,4-dimethyl-1,3-dioxane				
	V	(274–313)	44.9 ± 0.6	298	GS	[2002VER]
$C_6H_{12}O_2$	[141-79-7]	2,2-dimethyl-1,3-dioxane				
	FUS		12.1	229.6		[1975BOR]
$C_6H_{12}O_2$	[766-15-4]	4,4-dimethyl-1,3-dioxane				
	V	(333–407)	37.1	348	A	[1987STE/MAL, 1968KAC/NEM]
	V	(363–406)	38.8	378		[1969LES/MOR]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{12}O_2$	[2391-24-4]	*cis*-4,5-dimethyl-1,3-dioxane				
	V	(353–410)	48.5	368	A	[1987STE/MAL]
$C_6H_{12}O_2$	[1121-20-6]	*trans*-4,5-dimethyl-1,3-dioxane				
	V	(353–408)	39.1	368	A	[1987STE/MAL]
$C_6H_{12}O_2$	[100-72-1]	2-hydroxymethyltetrahydopyran				
	V	(344–460)	49.0	359	A	[1987STE/MAL]
$C_6H_{12}O_2$	[6581-66-4]	2-methoxytetrahydropyran				
	V		39.3 ± 1.2	298	DSC	[2005ROJ/GIN]
$C_6H_{12}O_2$	[4415-90-1]	1,1-dimethoxycyclobutane				
	V	(274–313)	42.0 ± 0.3	298	GS	[2002VER]
	V	(273–313)	42.3 ± 0.3		GS	[1998VER/PEN]
	V	(301–348)	42.6	325	EB	[1994WIB/MOR]
$C_6H_{12}O_2$	[4016-14-2]	[(1-methylethoxy)methyl]oxirane				
	V		43.5 ± 2.1			[1987VAN/KAC]
$C_6H_{12}O_2$	[3126-95-2]	(propoxymethyl)oxirane				
	V		48.5 ± 0.4			[1987VAN/KAC]
$C_6H_{12}O_2$	[72380-56-4]	1,1-dimethoxy-3-butene				
	V	(305–334)	42.0	320	EB	[1994WIB/MOR]
$C_6H_{12}O_2$	[123-86-4]	butyl acetate				
	V	(341–423)	40.2	360	EB	[2016PER/ORT]
	V	(365–420)	38.3	380		[2005ORT/ESP]
	V		42.4	298	GC	[1997KOU/HOS]
	V	(350–450)	38.5	375	EB	[1995GON/ORT]
	V	(313–363)	42.7	298	CGC	[1995CHI/HOS]
	V	(313–353)	43.1	298	CGC	[1995CHI/HOS]
	V		41.0 ± 0.5	298	GC	[1987AZA]
	V		43.0 ± 0.1	313	C	[1980SVO/UCH]
	V		41.7 ± 0.1	328	C	[1980SVO/UCH]
	V		40.6 ± 0.1	343	C	[1980SVO/UCH]
	V		39.4 ± 0.1	358	C	[1980SVO/UCH]
	V	(326–404)	41.3	341	DTA	[1980MEY/AWE]
	V		43.6 ± 0.5	298	GCC	[1980FUC/PEA]
	V		43.7 ± 0.2	298	GCC	[1980FUC/PEA]
	V	(341–399)	40.5	356	A, EB	[1987STE/MAL, 1969SHE/LAN]
	V		43.6 ± 0.2	298	C	[1966WAD]
	V	(332–399)	40.8	347	A	[1987STE/MAL, 1964KLI/FRI, 1984BOU/FRI]
	V		37.5	398		[1961SCH/BOT]
$C_6H_{12}O_2$	[123-42-2]	diacetone alcohol				
	V	(301–388)	47.5	316	A, I	[1987STE/MAL, 1952FUG/BOW]
$C_6H_{12}O_2$	[123-42-2]	4-hydroxy-4-methyl-2-pentanone				
	V		52.1			[1975VIL/PER]
	V	(295–441)	51.0	310		[1947STU]
$C_6H_{12}O_2$	[105-54-4]	ethyl butyrate				
	FUS	(8–372)	10.68	174.5	AC	[2010AGA/DRU]
	V	(377–433)	37.9	395	EB	[2012RIO/ORT]
	V	(332–394)	42.9 ± 0.8	298	EB	[2010AGA/DRU]
	V	(330–435)	39.4	345		[1997HER/ORT]
	V	(332–393)	40.2	347		[1993FAR/WIC]
	V	(310–336)	42.1 ± 0.1	323	EB	[1991WIB/WAL]
	V	(310–336)	43.7 ± 1.3	298	EB	[1991WIB/WAL]
	V	(263–404)	48.3	278	A	[1987STE/MAL]
	V		42.7 ± 0.1	298	C	[1986NIL/WAD]
	V		42.0 ± 0.1	298	C	[1966WAD]
	V	(254–394)	41.8	270		[1947STU]
$C_6H_{12}O_2$	[97-62-1]	ethyl isobutyrate				
	V	(383–483)	36.0	398	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		39.8 ± 0.1	298	C	[1966WAD]
	V	(249–393)	44.1	264	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O_2$	[105-46-4]	2-butyl acetate				
	V		40.7	298		[2012ZHA/DU, 2014WIS/PER]
$C_6H_{12}O_2$	[110-19-0]	isobutyl acetate				
	V	(300–516)	40.3	320	EB	[2012SUS/ROD]
	V	(308–391)	39.9	323		[2005MON/MUN]
	V	(325–393)	39.2	340		[1996BUR/MON]
	V	(252–391)	39.8	267	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O_2$	[540-88-5]	*tert*-butyl acetate				
	V	(308–372)	36.7	323		[2005MON/MUN]
	V		38.0 ± 0.2	298	C	[1966WAD, 1996VER/BEC]
$C_6H_{12}O_2$	[598-98-1]	methyl 2,2-dimethylpropanoate				
	V	(313–363)	37.7	298	CGC	[1995CHI/HOS]
	V		39.0 ± 0.5	298	GC	[1987AZA]
	V		38.8	298		[UR/FUC, 1985MAJ/SVO]
	V		39.7 ± 0.3	298	GCC	[1980FUC/PEA]
	V	(299–356)	35.2	319	BG	[1971HAL/BAL]
$C_6H_{12}O_2$	[638-49-3]	pentyl formate				
	V	(274–313)	45.6	294	GS	[2012SAM/NAZ]
	V	(274–313)	45.2 ± 0.1	298	GS	[2012SAM/NAZ]
$C_6H_{12}O_2$	[110-45-2]	isopentyl formate				
	V	(255–397)	38.9	270	A	[1987STE/MAL]
$C_6H_{12}O_2$	[556-24-1]	methyl isovalerate				
	V	(254–390)	41.2	269	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O_2$	[624-24-8]	methyl valerate				
	V	(275–311)	43.7 ± 0.3	298	GS	[2008VER/EME]
	V	(350–415)	44.1 ± 0.1		EB	[2007CAM/MOL]
	V	(281–547)	44.4	296		[2006CAM/MAR, 2006CAM]
	V	(364–417)	39.2	379		[2003ORT/ESP2]
	V		41.3	350		[2002VAN/VAN]
	V		43.7 ± 0.2	298		[2002VAN/VAN]
	V	(297–411)	42.5	312	A	[1987STE/MAL]
	V		43.3 ± 0.5	298	GC	[1987AZA]
	V		44.3 ± 0.5	298	C	[1981GAT/STR]
	V		46.1 ± 0.3	298	GCC	[1980FUC/PEA]
	V		44.1 ± 0.1	298	GCC	[1980FUC/PEA]
	V		43.1 ± 0.1	298	C	[1977MAN/SEL]
$C_6H_{12}O_2$	[106-36-5]	propyl propanoate				
	V	(366–408)	38.3 ± 0.1	387	EB	[1999GON/ORT, 2012SAM/NAZ]
	V	(366–408)	44.6 ± 0.1	298	EB	[1999GON/ORT, 2012SAM/NAZ]
	V	(378–406)	37.6	392		[1994ORT/GAL]
	V	(336–394)	39.9	351		[1993FAR/WIC]
	V	(259–396)	43.1	274	A	[1987STE/MAL, 1947STU]
	V		42.1 ± 0.1	313	C	[1980SVO/UCH]
	V		43.2	298	C	[1980SVO/UCH, 2012SAM/NAZ]
	V		41.1 ± 0.1	328	C	[1980SVO/UCH]
	V		40.0 ± 0.1	343	C	[1980SVO/UCH]
	V		38.8 ± 0.1	358	C	[1980SVO/UCH]
	V		42.2	298		[1953WAL, 2012SAM/NAZ]
$C_6H_{12}O_2$	[142-62-1]	hexanoic acid				
	V	(297–328)	68.4 ± 0.9	313	GS	[2000VER2]
	V	(297–328)	69.2 ± 0.9	298	GS	[2000VER2]
	V	(353–393)	71.3	298	CGC	[1995CHI/HOS]
	V		70.9	271		[1982DEK/SCH]
	V	(270–280)	73.2 ± 2.0	298	TE	[1979DEK/OON]
	V	(335–487)	65.9	350	A	[1987STE/MAL, 1972DYK]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(371–452)	66.6	386		[1957ROS/ACC, 1984BOU/FRI]
	V		64.6	367	I	[1943CRA]
$C_6H_{12}O_2$	[88-09-5]	2-ethyl butyric acid				
	V	(373–466)	58.2	388	A	[1987STE/MAL]
$C_6H_{12}O_2$	[646-07-1]	4-methylvaleric acid				
	V	(339–481)	91.7	354	A	[1987STE/MAL]
$C_6H_{12}O_2$	[595-37-9]	2,2-dimethylbutanoic acid				
	V	(364–498)	59.4 ± 0.3	370	EB	[2002STE/CHI]
	V	(364–498)	54.6 ± 0.3	410	EB	[2002STE/CHI]
	V	(364–498)	50.0 ± 0.4	450	EB	[2002STE/CHI]
	V	(364–498)	46.0 ± 0.7	490	EB	[2002STE/CHI]
$C_6H_{12}O_2$	[1070-83-3]	3,3-dimethylbutanoic acid				
	V	(283–325)	63.6 ± 0.9	304	GS	[2000VER2]
	V	(283–325)	64.0 ± 0.9	298	GS	[2000VER2]
$C_6H_{12}O_3$	[767-09-9]	1-hexene ozonide				
	V	(353–373)	43.9	363	MM	[1977BOL/MAK]
$C_6H_{12}O_3$	[37160-61-5]	*sec*-butyl glycolate				
	V	(301–451)	52.3	316	A	[1987STE/MAL, 1947STU]
$C_6H_{12}O_3$	[123-63-7]	2,4,6-trimethyl-1,3,5-trioxane (paraldehyde)				
	TRS	(80–310)	0.26	142.7		
	TRS	(80–310)	0.77	147.5		
	FUS	(80–310)	13.52	285.7	AC	[1996DOM/HEA, 1969CLE/MEL]
	FUS		13.83	285.8		[1911LOU/DUP]
	V	(323–396)	41.5	338	A	[1987STE/MAL]
	V		41.4 ± 0.4			[1959FLE/MOR]
$C_6H_{12}O_3$	[123-34-2]	glycerol 1-monoallyl ether				
	V	(323–383)	74.7	338	A	[1987STE/MAL, 1972DYK]
$C_6H_{12}O_3$	[817-95-8]	2-ethoxyacetic acid, ethyl ester				
	V	(330–430)	46.1	345	A	[1987STE/MAL]
$C_6H_{12}O_3$	[14144-33-3]	3-ethoxypropionic acid, methyl ester				
	V	(320–432)	44.3	335	A	[1987STE/MAL, 1972DYK, 1948DIX/REH]
$C_6H_{12}O_3$	[111-15-9]	2-ethoxyethanol acetate				
	V	(408–429)	43.6	418	EB	[2012RAN/BHA]
	V	(322–430)	50.9	337	A	[1987STE/MAL]
	V		52.7 ± 0.1	298	C	[1970KUS/WAD]
	V	(330–468)	52.6 ± 0.4	298	EB	[1966BOT/ADL]
$C_6H_{12}O_3$	[4897-95-4]	3-hydroxypropionic acid, propyl ester				
	V	(350–375)	60.9	362	A	[1987STE/MAL]
$C_6H_{12}O_3$	[10606-42-5]	3-methoxypropionic acid, ethyl ester				
	V	(313–432)	44.6	328	A	[1987STE/MAL]
$C_6H_{12}O_3$	[616-09-1]	propyl lactate				
	V	(334–442)	52.1	349	A	[1987STE/MAL, 1950REH/DIX]
$C_6H_{12}O_3$	[617-51-6]	isopropyl lactate				
	V	(356–430)	44.5	371		[2005PEN/MUR]
$C_6H_{12}O_3$	[54078-53-4]	ethoxymethyl propionate				
	V		49.9 ± 0.1	298	C	[1974MAN]
$C_6H_{12}O_3$	[5405-41-4]	ethyl 3-hydroxybutyrate				
	V	(363–393)	55.9 ± 0.6	298	CGC	[2005TEM/CHI]
$C_6H_{12}O_4$	[624-47-5]	(*dl*)-glycerol 1-propionate				
	V	(388–456)	75.8	403	A	[1987STE/MAL, 1972DYK]
$C_6H_{12}O_4$	[1073-91-2]	diacetone diperoxide				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(288–328)	81.9	308	HSA	[2009OXL/SMI]
$C_6H_{12}O_5$		1-deoxy-(D)-glucopyranose				
	FUS		27.4	403.2	DSC	[1996SCH]
$C_6H_{12}O_5$		2-deoxy-(D)-glucopyranose				
	FUS		34.5	398.7	DSC	[1996SCH]
$C_6H_{12}O_5$		3-deoxy-(D)-glucopyranose				
	FUS		32.6	387.2	DSC	[1996SCH]
$C_6H_{12}O_5$		6-deoxy-(D)-glucopyranose				
	FUS		22.7	409.2	DSC	[1996SCH]
$C_6H_{12}O_6$	[87-89-8]	*myo*-inositol				
	FUS		46.2	500.8	DSC	[2006ZHO/LI]
	FUS		47.9	496.9	DSC	[1996DOM/HEA, 1990BAR/DEL]
	SUB	(438–458)	174.0 ± 2.6	448	ME	[2006CHE/OJA]
	SUB		181.0 ± 2.0	298	C	[1999COS/EUS]
	SUB		154.7 ± 1.4	477	TE	[1990BAR/DEL]
	SUB		161	298		[1990BAR/DEL]
	SUB		178	298	B	[1990BAR/DEL]
	SUB	(454–472)	168			[1983DEW/BOW]
	V	(497–524)	119.0 ± 1.4	519	TE	[1990BAR/DEL]
$C_6H_{12}O_6$	[492-62-6]	α-D-glucose				
	FUS (0.05 K/min)		31.6	415.1	DSC	
	FUS (0.5 K/min)		33.5	421.8	DSC	
	FUS (5 K/min)		36.1	431.3	DSC	
	FUS (10 K/min)		36.6	435.2	DSC	
	FUS (20 K/min)		36.9	438.7	DSC	[2011MAG/PYD]
	FUS		34.3	423.2		[1996SCH]
	FUS		31.42	414		[1996DOM/HEA, 1934PAR/THO]
$C_6H_{12}O_6$		D-(+)-glucose				
	FUS		33.35	427.3	DSC	[2011LEE/THO]
Note: The authors performed measuremetns as a function of heating rate, and the above values correspond to a heating rate of 2° C/min.						
$C_6H_{12}O_6$	[50-99-7]	glucose				
	FUS		32.11	433.5	DSC	[2012BIT/MEN]
$C_6H_{12}O_6$	[57-48-7]	D-(-)-fructose				
	FUS		31.15	390.1	DSC	[2011LEE/THO]
Note: The authors performed measuremetns as a function of heating rate, and the above values correspond to a heating rate of 2° C/min.						
$C_6H_{12}O_6$		(D)-mannopyranose				
	FUS		24.7	391.2		[1996SCH]
$C_6H_{12}O_6$	[59-23-4]	(D)-galactose				
	FUS		43.8	436.2		[2002JON/COO]
$C_6H_{12}S$	[7133-36-0]	cyclopentyl methyl sulfide				
	TRS		0.9	165		
	FUS		9.2	169.9		[1974MES/FIN]
	V		45.1 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(354–473)	41.7	369	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_6H_{12}S$	[5161-13-7]	*cis*-2,5-dimethyltetrahydrothiophene				
	V	(311–444)	41.7	326		[1999DYK/SVO]
	V	(349–427)	39.7	364	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{12}S$	[5161-14-8]	*trans*-2,5-dimethyltetrahydrothiophene				
	V	(348–396)	39.3	363	EB	[1987STE/MAL, 1952WHI/BAR, 1999DYK/SVO]
$C_6H_{12}S$	[1551-32-2]	2-ethyltetrahydrothiophene				
	V	(333–488)	42.6	348	A	[1987STE/MAL, 1972DYK, 1999DYK/SVO]
$C_6H_{12}S$	[62184-67-2]	3-ethyltetrahydrothiophene				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(343–503)	43.1	358	A	[1987STE/MAL, 1972DYK, 1999DYK/SVO]
$C_6H_{12}S$	[5161-16-0]	2-methyltetrahydro-2*H*-thiopyrane				
	V	(317–455)	42.1	332		[1999DYK/SVO]
	V	(356–438)	40.2	371	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{12}S$	[5258-50-4]	3-methyltetrahydro-2*H*-thiopyrane				
	V	(321–460)	42.5	336		[1999DYK/SVO]
	V	(361–435)	40.7	376	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{12}S$	[5161-17-1]	4-methyltetrahydro-2*H*-thiopyrane				
	V	(321–461)	42.8	336		[1999DYK/SVO]
	V	(361–441)	40.8	376	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{12}S$	[1569-69-3]	cyclohexanethiol				
	FUS	(12–370)	10.0	189.6	AC	[1996DOM/HEA, 1967MES/GUT]
	V		44.9	298	C	[1981HOS/SCO]
	V		44.6 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(355–476)	41.2	370	A, EB	[1987STE/MAL, 1966OSB/DOU, 1999DYK/SVO]
$C_6H_{12}S_3$	[6573-11-1]	1,4,7-trithiacyclononane				
	FUS		29.0	354.2	DSC	[2002ROC/GRI]
$C_6H_{13}Br$	[111-25-1]	1-bromohexane				
	FUS		18.05	188.1		[1996DOM/HEA, 1931DEE]
	V	(323–363)	45.5	298	CGC	[1995CHI/HOS]
	V		46.1 ± 0.1	298	C	[1968WAD]
	V		45.6 ± 0.1	298	C	[1966WAD]
	V	(333–456)	43.2	348	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]
$C_6H_{13}Br$	[3377-86-4]	(*dl*)-2-bromohexane				
	V	(303–416)	43.8	318	A	[1987STE/MAL]
$C_6H_{13}Br$	[30310-22-6]	2-bromo-4-methylpentane				
	V	(315–448)	29.3	330	A	[1987STE/MAL, 1972DYK]
$C_6H_{13}Br$	[26356-06-9]	2-bromo-3,3-dimethylbutane				
	V	(315–449)	39.5	330	A	[1987STE/MAL, 1972DYK]
$C_6H_{13}Cl$	[544-10-5]	1-chlorohexane				
	V	(319–376)	41.1	334		[1988PAU/KRU]
	V	(290–410)	42.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V		42.8 ± 0.1	298	C	[1981TEK/MAJ]
	V		40.5 ± 0.1	328	C	[1981TEK/MAJ]
	V		40.0 ± 0.1	343	C	[1981TEK/MAJ]
	V		39.0 ± 0.1	358	C	[1981TEK/MAJ]
	V		38.4 ± 0.1	368	C	[1981TEK/MAJ]
	V	(288–409)	43.5	303	A, DTA	[1987STE/MAL, 1969KEM/KRE, 1972DYK]
	V		42.8 ± 0.1	298	C	[1968WAD]
$C_6H_{13}Cl$	[638-28-8]	(*dl*)-2-chlorohexane				
	V	(300–399)	40.9	315	A	[1987STE/MAL]
$C_6H_{13}Cl$	[594-57-0]	2-chloro-2,3-dimethylbutane				
	V	(301–426)	38.0	316	A	[1987STE/MAL, 1972DYK]
$C_6H_{13}Cl$	[5750-00-5]	(*dl*)-2-chloro-3,3-dimethylbutane				
	V	(300–425)	38.0	315	A	[1987STE/MAL, 1972DYK]
$C_6H_{13}ClO_2S$	[14532-24-2]	1-hexanesulfonyl chloride				
	V	(273–304)	60.7	288		[1999DYK/SVO, 1963QUI/NOW]
	V	(303–400)	61.7	318		[1999DYK/SVO]
	V	(400–507)	57.2	415		[1999DYK/SVO]
$C_6H_{13}Cl_2N$	[13426-57-8]	*N*-ethyl-bis(2-chloroethyl)amine				
	V	(273–333)	54.9	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1972DYK]
$C_6H_{13}F$	[373-14-8]	1-fluorohexane				
	V	(273–388)	36.9	288	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{13}F$	[52688-75-2]	3-fluorohexane				
	V	(281–393)	36.8	296	A	[1987STE/MAL, 1972DYK]
$C_6H_{13}I$	[638-45-9]	1-iodohexane				
	V	(258–308)	49.9 ± 0.1	298	Static	[2010FUL/RUZ]
	V		49.8 ± 0.1	298	C	[1968WAD]
	V	(331–485)	46.2	346	A, EST	[1987STE/MAL, 1961LI/ROS, 1972DYK]
$C_6H_{13}N$	[108-91-8]	cyclohexylamine				
	TRS		1.0	258.2		
	FUS		16.5	255.1	DTA	[1999HAM/WUR]
	FUS		14.92	255.4		[1939VAN, 1999KAB/KOZ]
	V	(283–308)	44.1 ± 0.4	295	GS	[2015VER/EME3]
	V	(283–308)	43.9 ± 0.5	298	GS	[2015VER/EME3]
	V	(274–364)	43.7	298		[2012AHM/NEG]
	V	(333–363)	41.1 ± 0.2	348	EB	[2005GRE/KLA, 2015VER/EME3]
	V	(333–363)	44.1 ± 0.5	298	EB	[2005GRE/KLA, 2015VER/EME3]
	V	(363–407)	40.6	378		[1987STE/MAL]
	V	(363–398)	39.0 ± 2.0	380	EB	[1985SHE/SAN, 2015VER/EME3]
	V	(363–398)	44.0 ± 2.1	298	EB	[1985SHE/SAN, 2015VER/EME3]
	V		42.7 ± 0.1	313	C	[1979MAJ/SVO2]
	V		40.7 ± 0.1	343	C	[1979MAJ/SVO2]
	V		39.6 ± 0.1	358	C	[1979MAJ/SVO2]
	V		42.8 ± 0.1	298	C	[1975BER/OLO]
	V	(383–403)	38.2 ± 1.0	393	EB	[1973MOR/KAU, 2015VER/EME3]
	V	(383–403)	44.0 ± 1.3	298	EB	[1973MOR/KAU, 2015VER/EME3]
	V	(333–408)	40.8	348	A	[1987STE/MAL, 1972DYK]
	V	(334–401)	40.8	349		[1960NOV/MAT2, 1984BOU/FRI, 1960NOV/MAT]
	V	(304–408)	39.3 ± 0.2	356		[1937CAR/MOR, 2015VER/EME3]
	V	(304–408)	42.5 ± 1.5	298		[1937CAR/MOR, 2015VER/EME3]
$C_6H_{13}N$	[111-49-9]	hexahydro-1*H*-azepine				
	V		46.7 ± 0.6	298	C	[2014FRE/LEI]
	V	(348–423)	37.7	363	A	[1987STE/MAL]
	V	(312–411)	40.4	327	A	[1987STE/MAL, 1972DYK]
	V	(273–313)	44.2	298		[1968CAB/CON]
$C_6H_{13}N$	[109-05-7]	(*dl*)-2-methylpiperidine				
	FUS	(14–370)	18.58	269.4	AC	[1996DOM/HEA, 1988MES/TOD]
	V	(323–431)	38.2	338	EB, IPM	[1987STE/MAL, 1968OSB/DOU]
$C_6H_{13}N$	[626-56-2]	3-methylpiperidine				
	V		44.4 ± 0.7	298	C	[2006RIB/CAB5]
$C_6H_{13}N$	[626-58-4]	4-methylpiperidine				
	V		40.6 ± 0.9	298	C	[2006RIB/CAB5]
$C_6H_{13}N$	[626-67-5]	*N*-methylpiperidine				
	V		36.8 ± 0.6	298	C	[2006RIB/CAB5]
	V	(298–343)	36.5	313		[1995BEL/AIT]
	V	(273–380)	37.3	288	A	[1987STE/MAL]
	V		36.7 ± 0.1	298		[1979BER/ANG, 1998EWI/SAN]
	V	(273–313)	35.9	298		[1968CAB/CON]
$C_6H_{13}NO$	[100-74-3]	*N*-ethylmorpholine				
	V	(284–364)	42.2	300	Static	[2013CHI/DER]
	V	(274–313)	42.3 ± 0.3	294	GS	[1998VER2]
	V	(274–313)	42.1 ± 0.3	298	GS	[1998VER2]
$C_6H_{13}NO$		methyl 2-(*N*, *N*-dimethylamino)propanoate				
	V	(278–306)	46.1 ± 1.1	290	GS	[1992VER/BEC]
$C_6H_{13}NO$		ethyl 2-(*N*, *N*-dimethylamino)ethanoate				
	V	(278–308)	47.6 ± 0.8	293	GS	[1992VER/BEC]
$C_6H_{13}NO$	[127-19-5]	*N*, *N*-diethylacetamide				
	V	(463–513)	53.7 ± 0.4	298	CGC	[2009PAN/ANT]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		54.1	298	A	[1985BAR/CAS, 1985MAJ/SVO]
$C_6H_{13}NO$	[10601-63-5]	*N*-isopropylpropionamide				
	TRS		5.05	283.2		
	FUS		7.79	324.2	DSC	[2010MEE/GEU]
$C_6H_{13}NO$	[1119-49-9]	*N*-butylacetamide				
	V		75.0 ± 0.3	298	C	[1984STA/WAD]
	V		76.1 ± 1.2	298	C	[1965WAD]
$C_6H_{13}NO$	[760-79-2]	*N*, *N*-dimethyl butyramide				
	V	(251–432)	50.8	366	A	[1987STE/MAL]
	V		55.2			[1977VAS/KOT]
$C_6H_{13}NO$	[762-84-5]	*tert*-butylacetamide				
	SUB		78.0 ± 0.3	298	C	[1984STA/WAD]
	SUB	(278–295)	78.3 ± 0.3	287	ME	[1983ZIE/ZIE]
	SUB	(278–295)	77.9 ± 0.4	298	ME	[1983ZIE/ZIE]
$C_6H_{13}NO$	[628-02-4]	hexanamide				
	TRS		51.1	306.1		
	FUS		16.8	372.4	DSC	[2013GUT/RAT]
	TRS		7.9	305.1		
	FUS		16.7	373	DSC	[2008ABA/BAD]
	FUS		25.1	374		[1973LEB/KAT2]
	SUB	(301–371)	85 ± 4.0	298	TE	[2000BRU/DEL]
	SUB	(293–303)	98.7 ± 1.7	298		[1973LEB/KAT2, 1977PED/RYL]
	SUB	(338–368)	95.1 ± 4	353	GS	[1959DAV/JON2, 1970COX/PIL, 1987STE/MAL]
	V		79.5 ± 3.3	298	CGC	[2013GUT/RAT]
$C_6H_{13}NO$	[3554-74-3]	1-methyl-3-piperidinol				
	V		63.7 ± 1.0	298	C	[2006RIB/CAB2]
$C_6H_{13}NO$	[106-52-5]	1-methyl-4-piperidinol				
	V		71.5 ± 0.7	298	C	[2006RIB/CAB2]
$C_6H_{13}NO$	[3433-37-2]	2-piperidinemethanol				
	SUB		93.0 ± 0.5	298	C	[2006RIB/CAB3]
$C_6H_{13}NO$	[4606-65-9]	3-piperidinemethanol				
	SUB		95.9 ± 1.4	298	C	[2006RIB/CAB3]
$C_6H_{13}NO$	[6457-49-4]	4-piperidinemethanol				
	SUB		98.3 ± 0.7	298	C	[2006RIB/CAB3]
$C_6H_{13}NO_2$	[6280-17-7]	*N*-isopropyl lactamide				
	V	(369–407)	69.9	384	A	[1987STE/MAL, 1950RAT/FIS]
$C_6H_{13}NO_2$	[74421-70-8]	*N*-propyl lactamide				
	V	(373–423)	74.0	388	A	[1987STE/MAL, 1950RAT]
$C_6H_{13}NO_2$	[616-06-8]	*dl*-2-aminohexanoic acid				
	TRS (α-to-γ)		4.8	392	DSC	[2015SME/BRU]
	SUB	(435–469)	114.5 ± 0.4	450	ME	[1965SVE/CLY, 1964CLY/SVE, 1987STE/MAL]
$C_6H_{13}NO_2$	[73-32-5]	2-amino-3-methylpentanoic acid (isoleucine)				
	SUB	(442–461)	120.1 ± 0.8	455	ME	[1965SVE/CLY, 1964CLY/SVE]
$C_6H_{13}NO_2$	[328-38-1]	L-(*d*)-2-amino-4-methylpentanoic acid (L-(*d*)-leucine)				
	SUB	(323–423)	U83.7 ± 4	373	LE	[1977GAF/PIE]
$C_6H_{13}NO_2$	[61-90-5]	D-(*l*)-leucine				
	SUB	(401–517)	148.7 ± 6.5		TGA	[2009LAH/RAU]
	SUB	(446–464)	150.6 ± 0.8	455	ME	[1965SVE/CLY, 1970COX/PIL, 1964CLY/SVE]
$C_6H_{13}NO_2$	[60-32-2]	6-aminohexanoic acid				
	SUB	(388–407)	153.3 ± 0.8	398	C	[1983SKO/SAB]
	SUB		155 ± 3	298	C	[1983SKO/SAB]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_6H_{14}	[110-54-3]	hexane				
	FUS		13.03	177.8	DTA	[1994TAN/SAB3]
	FUS		13.08	177.8		[1996DOM/HEA, 1946DOU/HUF]
	FUS		12.34	177.9		[1937STU]
	FUS		13.03	177.9	C	[1931HUF/PAR]
	FUS		12.58	178.6		[1996DOM/HEA, 1930PAR/HUF]
	SUB		50.8	178	B	[1963BON]
	V	(302–339)	27.1 ± 0.4		I	[2010GER/PEL]
	V		31.4 ± 0.2	298	C	[2007PAS/KUZ]
	V		31.5 ± 0.1	298	C	[1996VAR/PAS]
	V		31.5	298		[1994RUZ/MAJ]
	V	(283–323)	32.1	298		[1992GRA/SAN]
	V		31.3 ± 0.3		GC	[1989AZA]
	V	(238–298)	34.9	253	A	[1987STE/MAL]
	V	(189–259)	35.7	244	A	[1987STE/MAL]
	V	(298–343)	31.5	313	A	[1987STE/MAL]
	V	(341–377)	30.1	356	A	[1987STE/MAL]
	V	(374–451)	29.3	389	A	[1987STE/MAL]
	V	(445–508)	29.4	460	A	[1987STE/MAL]
	V		26.6	373	C	[1985WOR/YER]
	V		22.5	423	C	[1985WOR/YER]
	V		15.7	473	C	[1985WOR/YER]
	V		8.9	498	C	[1985WOR/YER]
	V		31.6	298		[UR/FUC, 1985MAJ/SVO]
	V	(298–338)	30.9	313		[1984MIC/JOS]
	V		31.6 ± 0.1	298	C	[1979MAJ/SVO]
	V		30.7 ± 0.1	313	C	[1979MAJ/SVO]
	V		29.5 ± 0.1	333	C	[1979MAJ/SVO]
	V		28.2 ± 0.1	353	C	[1979MAJ/SVO]
	V	(300–321)	31.6	310	Static, MM	[1974LET/MAR, 1984BOU/FRI]
	V	(178–265)	32.5	250		[1973CAR/KOB]
	V		31.55	298		[1971WIL/ZWO]
	V		30.9 ± 0.1	309	C	[1947WAD/DOU]
	V		29.8 ± 0.1	328	C	[1947WAD/DOU]
	V		31.5 ± 0.1	298	C	[1947OSB/GIN]
	V	(286–343)	32.0	301	A, MM	[1987STE/MAL, 1945WIL/TAY]
	V		31.0 ± 0.2	298	C	[1943LEM/FEL]
	V		30.5 ± 0.2	313	C	[1943LEM/FEL]
	V		29.0 ± 0.2	333	C	[1943LEM/FEL]
	V		28.2 ± 0.2	353	C	[1943LEM/FEL]
C_6H_{14}	[107-83-5]	2-methylpentane				
	FUS		6.27	119.6		[1996DOM/HEA, 1946DOU/HUF]
	V	(290–333)	30.2	305		[2010SAP/UUS]
	V	(301–333)	30.0	316		[2002POK/UUS]
	V	(310–359)	29.7	325		[1998AUC/LOR]
	V	(293–335)	30.5	308	A	[1987STE/MAL]
	V		29.9	298		[1971WIL/ZWO]
	V		29.9 ± 0.1	298	C	[1949WAD/SMI]
	V		28.7 ± 0.1	318	C	[1949WAD/SMI]
	V		27.8 ± 0.1	333	C	[1949WAD/SMI]
	V		29.9 ± 0.1	298	C	[1947OSB/GIN]
	V	(286–334)	30.4	301	MM	[1945WIL/TAY]
	V		29.8 ± 0.2	293	C	[1943LEM/FEL]
	V		29.0 ± 0.2	313	C	[1943LEM/FEL]
	V		27.6 ± 0.2	333	C	[1943LEM/FEL]
	V		26.9 ± 0.2	353	C	[1943LEM/FEL]
C_6H_{14}	[96-14-0]	3-methylpentane				
	FUS		5.31	110.3		[1996DOM/HEA, 1973FIN/MES]
	V	(316–361)	29.9	331		[1999LOR/AUC]
	V	(293–338)	30.5	308	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		30.3 ± 0.1	298	C	[1979MAJ/SVO]
	V		29.5 ± 0.1	313	C	[1979MAJ/SVO]
	V		28.3 ± 0.1	333	C	[1979MAJ/SVO]
	V		27.0 ± 0.1	353	C	[1979MAJ/SVO]
	V		30.3	298		[1971WIL/ZWO]
	V		30.0 ± 0.1	303	C	[1949WAD/SMI]
	V		28.8 ± 0.1	324	C	[1949WAD/SMI]
	V		28.1 ± 0.1	336	C	[1949WAD/SMI]
	V		30.3 ± 0.1	298	C	[1947OSB/GIN]
	V	(288–337)	30.2	303	MM	[1945WIL/TAY]
C_6H_{14}	[79-29-8]	2,3-dimethylbutane				
	TRS		2.37	107		
	TRS		6.43	136.1		
	FUS		0.79	145.2		[1996DOM/HEA, 1971ADA/SUG]
	TRS		6.49	136.1		
	FUS		0.80	145.2		[1946DOU/HUF]
	V		29.1	298		[1971WIL/ZWO]
	V		29.2 ± 0.1	296	C	[1949WAD/SMI]
	V		28.9 ± 0.1	303	C	[1949WAD/SMI]
	V		28.3 ± 0.1	313	C	[1949WAD/SMI]
	V		27.3 ± 0.1	331	C	[1949WAD/SMI]
	V	(287–332)	29.6	302	MM	[1945WIL/TAY]
	V		29.2 ± 0.1	293	C	[1943LEM/FEL]
	V		28.2 ± 0.1	313	C	[1943LEM/FEL]
	V		27.0 ± 0.1	333	C	[1943LEM/FEL]
	V		26.1 ± 0.1	353	C	[1943LEM/FEL]
C_6H_{14}	[75-83-2]	2,2-dimethylbutane				
	TRS		5.4	126.8		
	TRS		0.28	140.8		
	FUS		0.58	174.3		[1996DOM/HEA, 1946DOU/HUF]
	TRS		5.4	126.8		
	TRS		0.28	140.9		
	FUS		0.58	174.7		[1946KIL/PIT]
	TRS		4.58	127.1		
	FUS		0.46	172.1		[1937STU]
	V		27.7	298		[1971WIL/ZWO]
	V	(273–318)	28.7	288		[1949NIC/LAF, 1984BOU/FRI]
	V		27.8 ± 0.1	296	C	[1947WAD/DOU]
	V		26.3 ± 0.1	323	C	[1947WAD/DOU]
	V	(211–289)	29.2	274		[1946KIL/PIT]
	V	(288–323)	28.3	303	MM	[1945WIL/TAY]
$C_6H_{14}FO_3P$	[55-91-4]	fluorophosphoric acid, diisopropyl ester				
	V	(273–348)	29.4	288	A	[1987STE/MAL]
$C_6H_{14}N_2$	[821-67-0]	dipropyldiazene				
	V		39.9 ± 0.4	298	C	[1976ENG/MEL]
	V	(295–305)	39.5	300	UV	[1974ENG/WOO]
	V		41.1			[1968BAC/NOV, 1974ENG/WOO]
$C_6H_{14}N_2$	[3880-49-7]	diisopropyldiazene				
	V		35.9 ± 0.4	298	C	[1976ENG/MEL]
	V	(296–308)	36.1	302	UV	[1974ENG/WOO]
	V		37.7		I	[1974ENG/WOO]
	V		34.9			[1968GEI/HOF, 1974ENG/WOO]
$C_6H_{14}N_2$	[3114-70-3]	1,4-diaminocyclohexane				
	V	(383–473)	48.2	398	A	[1987STE/MAL]
$C_6H_{14}N_2$	[1436-59-5]	*cis*-1,2-cyclohexanediamine				
	V		62.2 ± 1.0	298	ME	[2007TOM/ROS]
$C_6H_{14}N_2$	[2615-25-0]	*trans*-cyclohexyl-1,4-diamine				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		27.0	342.1	DSC	[2007TOM/ROS]
	SUB		105.0 ± 0.8	298	C	[2007TOM/ROS]
$C_6H_{14}N_2$	[106-58-1]	1,4-dimethylpiperazine				
	V	(268–311)	41.2 ± 0.4	298	GS	[2010EFI/EME]
	V	(270–309)	44.3 ± 0.3	289	GS	[1998VER2]
	V	(270–309)	43.8 ± 0.3	298	GS	[1998VER2]
	V	(276–319)	41.6	291	A	[1987STE/MAL, 1975CAB/CON]
$C_6H_{14}N_2$	[106-55-8]	2,5-dimethylpiperazine				
	V	(437–609)	48.4	452	A	[1987STE/MAL]
$C_6H_{14}N_2$	[7423-00-9]	propylhydrazone acetone				
	V	(288–318)	44.0	300		[1980LEB/NAZ]
$C_6H_{14}N_2$	[7423-01-0]	isopropylhydrazone acetone				
	V	(288–323)	44.6	303		[1980LEB/NAZ]
$C_6H_{14}N_2O$	[103-76-4]	*N*-(hydroxyethyl)piperazine				
	V	(308–343)	77.3 ± 0.7	326	GS	[2002VER2]
	V	(308–343)	78.8 ± 0.7	298	GS	[2002VER2]
$C_6H_{14}N_2O$	[17697-55-1]	dipropyldiazene *N*-oxide				
	V		51.7 ± 0.1	298	C	[1981BYS]
$C_6H_{14}N_2O$	[38869-91-9]	1-pentyl urea				
	TRS		2.5	355.1		
	FUS		21.0	375.2	DSC	[2005HAS/TAJ]
$C_6H_{14}N_2O_2$	[56-87-1]	(*l*)-lysine				
	SUB	(397–497)	U88 ± 8	447	LE	[1977GAF/PIE]
$C_6H_{14}N_2O_2$	[33996-58-6]	α-ethyl-2-oxo-1-pyrrolidineacetamide (etiracetam)				
	FUS (I)		30.7	385.4	DSC	[2011HER/LEY]
	FUS (II)		31.0	392.4	DSC	[2011HER/LEY]
$C_6H_{14}N_4O_2$	[74-79-3]	(*l*)-arginine				
	SUB	(441–541)	U134 ± 8	491	LE	[1977GAF/PIE]
$C_6H_{14}N_4O_2$	[4164-29-8]	*N*-nitrodipropylamine				
	V		57.3 ± 0.8	298	C	[2009MIR/KON]
$C_6H_{14}N_8O_8$	[13405-40-8]	2,4,7,9-tetranitro-2,4,7,9-tetraazadecane				
	FUS		68.09	488.1	DSC	[1997ZEM]
$C_6H_{14}O$	[628-81-9]	butyl ethyl ether				
	V		36.3 ± 0.1	298	C	[1980MAJ/WAG]
	V		35.3	313	C	[1980MAJ/WAG]
	V		34.3	328	C	[1980MAJ/WAG]
	V		33.3	343	C	[1980MAJ/WAG]
	V		32.1	358	C	[1980MAJ/WAG]
	V	(311–365)	36.5	298		[1976AMB/ELL]
	V	(311–365)	32.1	365		[1976AMB/ELL]
	V	(311–365)	35.2	326	A, EB	[1987STE/MAL, 1976AMB/ELL, 1969CID/POL, 1972DYK]
$C_6H_{14}O$	[994-05-8]	*tert*-amyl methyl ether				
	V	(314–360)	33.3	330		[2011MEJ/SEG]
	V		35.3 ± 0.4	298		[UR/VER, 2002VER, 2003VER/KRA]
	V	(309–396)	36.6 ± 0.1	320	EB	[2002STE/CHI2]
	V	(309–396)	34.5 ± 0.2	360	EB	[2002STE/CHI2]
	V	(309–396)	32.1 ± 0.5	400	EB	[2002STE/CHI2]
	V		34.8	298	EB	[1999HEI/FIS, 2003VER/KRA]
	V	(314–362)	33.4	329		[1998AUC/LOR]
	V	(283–308)	35.7 ± 1.0	295	GS	[1998VER/WEL]
	V	(283–308)	35.5 ± 1.0	298	GS	[1998VER/WEL]
	V		35.2	298	EB	[1996TOG/TOG, 2003VER/KRA]
	V		35.0	298	EB	[1994ANT/SAN, 2003VER/KRA]
	V	(306–359)	33.8	321	EB	[1994KRA/GME]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		35.8	298	C	[1991ROZ/SAF]
	V	(294–359)	33.5	298	EB	[1991ROZ/SAF, 1984CER/BOU, 2003VER/KRA]
	V	(294–359)	34.3	309	EB	[1984CER/BOU]
	V	(309–358)	33.7	324	EB	[1984PAL/CHO]
$C_6H_{14}O$	[637-92-3]	*tert*-butyl ethyl ether				
	V	(303–345)	33.1 ± 0.4	298	EB	[2007EFI/PAS]
	V	(313–346)	32.1	328		[2007SAP/ZAY]
	V	(313–345)	31.9	328		[2004KIM/KES]
	V	(307–346)	32.1	322		[2000REI/CAR]
	V	(278–346)	33.4	298		[1999RAR/HOR]
	V	(306–345)	32.2	321	EB	[1994KRA/GME]
	V	(284–346)	33.5	299	A	[1987STE/MAL]
	V	(248–350)	35.3	263	A	[1987STE/MAL]
	V	(340–407)	31.2	355	A	[1987STE/MAL]
$C_6H_{14}O$	[111-43-3]	dipropyl ether				
	TRS (metastable)		9.54	149.4		
	FUS (stable)	(15–460)	10.77	158.4	AC	[1996DOM/HEA, 1975AND/COU]
	V	(308–338)	34.8	323	EB	[2002ANT/FRA]
	V	(385–467)	32.2	400	A	[1987STE/MAL]
	V	(465–530)	32.4	480	A	[1987STE/MAL]
	V		35.7 ± 0.1	298	C	[1980MAJ/WAG]
	V		34.7	313	C	[1980MAJ/WAG]
	V		33.8	328	C	[1980MAJ/WAG]
	V		32.8	343	C	[1980MAJ/WAG]
	V		31.7	358	C	[1980MAJ/WAG]
	V	(292–389)	35.6	307	A	[1987STE/MAL, 1976AMB/ELL]
	V		31.4	363		[1976AMB/ELL]
	V		34	324	C	[1975AND/COU]
	V		32.8	342	C	[1975AND/COU]
	V		31.3	363	C	[1975AND/COU]
	V	(312–371)	34.6	327	A, EB	[1987STE/MAL, 1973MEY/HOT]
	V	(300–362)	35.1	315	EB	[1969CID/POL]
	V	(340–379)	34.5	360		[1968LAP/NIS]
$C_6H_{14}O$	[108-20-3]	diisopropyl ether				
	FUS		12.05	187.8		[1974AND/COU]
	FUS		11.03	186.3		[1933PAR/HUF]
	V	(308–341)	31.2	325		[2013MEJ/OLI]
	V	(305–338)	31.7	320		[2013RED/BEN]
	V	(285–365)	32.7 ± 0.5	298	EB	[2007EFI/PAS]
	V	(278–323)	33.0	293		[1999GAR/AND]
	V	(307–349)	31.1	322		[1999MON/DEL]
	V	(360–440)	29.9	375	A	[1987STE/MAL]
	V	(436–500)	29.5	451	A	[1987STE/MAL]
	V		32.1 ± 0.1	298	C	[1980MAJ/WAG]
	V		31.1	313	C	[1980MAJ/WAG]
	V		30.1	328	C	[1980MAJ/WAG]
	V		29.0	343	C	[1980MAJ/WAG]
	V		27.8	358	C	[1980MAJ/WAG]
	V	(284–365)	32.6	299	A	[1987STE/MAL, 1976AMB/ELL]
	V	(284–365)	29.2	341		[1976AMB/ELL]
	V	(296–342)	32.1	311	A, EB	[1987STE/MAL, 1969CID/POL]
	V	(321–350)	30.1	336		[1965NIS/LAP2, 1972DYK]
	V	(273–333)	33.2	288		[1949NIC/LAF, 1984BOU/FRI]
$C_6H_{14}O$	[111-27-3]	1-hexanol				
	FUS	(5–399)	16.73	226.7		[2003VAN/GAB]
	FUS		15.38	225.8		[1996DOM/HEA, 1929KEL4]
	V	(238–308)	61.8 ± 0.1	298	Static	[2015STE/FUL]
	V	(313–393)	59.6 ± 0.1	298		[2012ZAI/NEG]
	V	(366–433)	53.2	381	EB	[2010CEN/ROH]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(344–384)	59.7	359	EB	[2009GIE/KOS]
	V	(328–423)	59.9	298		[2006NAS/NEU]
	V	(265–363)	61.7 ± 0.3	298	GS	[2005ROG/PIS]
	V	(370–416)	51.4	385	EB	[2004TAN/LI]
	V	(265–328)	62.0	288	GS	[2001KUL/VER2]
	V	(265–328)	61.1	298	GS	[2001KUL/VER2]
	V	(268–333)	61.9 ± 0.2	301	GS	[1998VER3]
	V	(268–333)	62.1 ± 0.2	298	GS	[1998VER3]
	V	(373–423)	61.5	298	CGC	[1995CHI/HOS]
	V	(323–373)	61.6	298	CGC	[1995CHI/HOS]
	V	(253–338)	61.2	296		[1992NGU/KAS]
	V	(298–343)	57.7	313	A	[1987STE/MAL]
	V	(380–417)	47.9	395	EB	[1985RED/RAO]
	V		58.5 ± 0.2	328	C	[1985MAJ/SVO3]
	V		57.6 ± 0.2	343	C	[1985MAJ/SVO3]
	V		55.2 ± 0.2	358	C	[1985MAJ/SVO3]
	V		53.8 ± 0.2	368	C	[1985MAJ/SVO3]
	V	(243–303)	59.1	298		[1983SCH/STR]
	V		60.8 ± 0.2	298	C	[1977MAN/SEL]
	V	(308–430)	57.9	323		[1973WIL/ZWO]
	V	(325–431)	58.5	340	DTA	[1987STE/MAL, 1969KEM/KRE]
	V					[1972DYK]
	V		61.6 ± 0.2	298	C	[1966WAD]
	V	(334–381)	56.0	349		[1961ROS/SUP]
	V	(308–428)	U55.8	323	I	[1938HOV/LAN]
	V	(333–425)	57.9	348		[1935BUT/RAM, 1984BOU/FRI]
$C_6H_{14}O$	[626-93-7]	(*dl*)-2-hexanol				
	V	(274–309)	57.0 ± 0.2	298	GS	[2005ROG/PIS]
	V	(274–309)	58.3 ± 0.3	298	GS	[2001KUL/VER]
	V	(224–323)	61.8	239		[1999NGU/BER]
	V	(360–415)	48.7	375	A	[1987STE/MAL]
	V		56.8 ± 0.2	313	C	[1985MAJ/SVO2]
	V		55.0 ± 0.2	328	C	[1985MAJ/SVO2]
	V		53.0 ± 0.2	343	C	[1985MAJ/SVO2]
	V		50.7 ± 0.2	358	C	[1985MAJ/SVO2]
	V		49.2 ± 0.2	368	C	[1985MAJ/SVO2]
	V	(337–413)	52.4	352		[1984SAC/MAR]
	V	(351–412)	47.8	366	A	[1987STE/MAL, 1975BRA/AND]
	V	(301–415)	53.1	316		[1973WIL/ZWO]
	V	(298–413)	49.7	356	I	[1938HOV/LAN]
$C_6H_{14}O$	[623-37-0]	(*dl*)-3-hexanol				
	V	(278–311)	58.6 ± 0.4	298	GS	[2001KUL/VER]
	V	(244–318)	U50.7	259		[1999NGU/BER]
	V	(354–410)	46.1	369	A	[1987STE/MAL]
	V	(280–320)	57.5	295	A	[1987STE/MAL]
	V	(333–409)	51.5	348		[1984SAC/MAR]
	V	(280–316)	57.4	295		[1975CAB/CON2]
	V	(298–408)	46.4	353	I	[1938HOV/LAN]
$C_6H_{14}O$	[105-30-6]	(*dl*)-2-methyl-1-pentanol				
	V	(275–313)	59.4 ± 0.3	298	GS	[2001KUL/VER]
	V	(367–423)	49.3	382	A	[1987STE/MAL]
	V	(261–294)	64.9	279	A	[1987STE/MAL, 1979THO/MEA]
	V		57.4 ± 0.2	328	C	[1985MAJ/SVO2]
	V		55.7 ± 0.2	343	C	[1985MAJ/SVO2]
	V		53.9 ± 0.2	358	C	[1985MAJ/SVO2]
	V		52.7 ± 0.2	368	C	[1985MAJ/SVO2]
	V	(298–423)	54.2	313		[1973WIL/ZWO]
	V	(298–413)	50.2	356	I	[1938HOV/LAN]
$C_6H_{14}O$	[589-35-5]	(*dl*)-3-methyl-1-pentanol				
	V	(280–316)	61.7 ± 0.3	298	GS	[2001KUL/VER]
	V	(328–427)	54.8	343	A	[1987STE/MAL]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(298–427)	59.7	313		[1973WIL/ZWO]
	V	(298–423)	47.2	360	I	[1940HOV/LAN2]
$C_6H_{14}O$	[626-89-1]	4-methyl-1-pentanol				
	V	(357–427)	53.0	372	A	[1987STE/MAL]
	V	(371–427)	51.1	386	A	[1987STE/MAL]
	V	(298–427)	63.9	313		[1973WIL/ZWO]
	V	(298–423)	46.5	360	I	[1940HOV/LAN2]
$C_6H_{14}O$	[590-36-3]	2-methyl-2-pentanol				
	V	(341–396)	44.2	356	A	[1987STE/MAL]
	V	(330–397)	48.9	345	A	[1987STE/MAL]
	V		54.7 ± 0.2	298	C	[1985MAJ/SVO2]
	V		52.8 ± 0.2	313	C	[1985MAJ/SVO2]
	V		50.7 ± 0.2	328	C	[1985MAJ/SVO2]
	V		48.5 ± 0.2	343	C	[1985MAJ/SVO2]
	V		46.1 ± 0.2	358	C	[1985MAJ/SVO2]
	V		44.4 ± 0.2	368	C	[1985MAJ/SVO2]
	V	(288–396)	58.3	303		[1973WIL/ZWO]
	V	(268–394)	49.1	283		[1947STU]
	V	(288–396)	51.3	303	I	[1933HOR/LAN]
$C_6H_{14}O$	[565-60-6]	(*dl*)-3-methyl-2-pentanol				
	V	(275–310)	58.2 ± 0.3	298	GS	[2001KUL/VER]
	V	(314–409)	54.4	329	A	[1987STE/MAL]
	V	(255–295)	60.4	280	A	[1987STE/MAL, 1979THO/MEA]
	V	(296–408)	54.8	311		[1973WIL/ZWO]
$C_6H_{14}O$	[108-11-2]	(*dl*)-4-methyl-2-pentanol				
	V	(274–301)	57.3 ± 0.3	298	GS	[2001KUL/VER]
	V	(240–295)	59.6	280	A	[1987STE/MAL]
	V	(293–406)	49.6	308		[1973WIL/ZWO]
	V	(353–404)	47.3	368	A, EB	[1987STE/MAL, 1970AND/BRA]
	V	(298–403)	45.6	350	I	[1938HOV/LAN]
$C_6H_{14}O$	[565-67-3]	(*dl*)-2-methyl-3-pentanol				
	V	(275–307)	56.0 ± 0.5	298	GS	[2001KUL/VER]
	V	(307–401)	52.2	322	A	[1987STE/MAL]
	V	(342–400)	45.4	357	A	[1987STE/MAL, 1975BRA/AND]
	V	(298–401)	52.0	313		[1973WIL/ZWO]
	V	(298–399)	44.4	349	I	[1940HOV/LAN]
$C_6H_{14}O$	[77-74-7]	3-methyl-3-pentanol				
	V	(275–301)	55.7 ± 0.3	298	GS	[2001KUL/VER]
	V		56.7 ± 0.8	298	EB	[1991WIB/HAO]
	V	(322–397)	40.1	337	A	[1987STE/MAL]
	V	(338–396)	46.4	353		[1973WIL/ZWO]
	V	(298–393)	42.1	346	I	[1940HOV/LAN]
$C_6H_{14}O$	[1185-33-7]	2,2-dimethyl-1-butanol				
	TRS		5.77	194.5		
	TRS		2.69	209.2		
	FUS		4.42	233.6	AC	[2013JUS/ZIE]
	V	(356–415)	47.2	371	A	[1987STE/MAL]
	V	(298–415)	53.7	313		[1973WIL/ZWO]
	V	(298–408)	52.1	313	I	[1940HOV/LAN3]
$C_6H_{14}O$	[19550-30-2]	(*dl*)-2,3-dimethyl-1-butanol				
	V	(324–431)	51.4	339	A	[1987STE/MAL]
	V	(373–422)	49.6	388		[1973WIL/ZWO]
$C_6H_{14}O$	[624-95-3]	3,3-dimethyl-1-butanol				
	FUS	(13–302)	9.54	235.7	AC	[2004MAS/NAK]
	V	(276–312)	58.0 ± 0.2	298	GS	[2001KUL/VER]
	V		58.6 ± 0.1	328	C	[1996ULB/KLU]
	V		55.4 ± 0.1	343	C	[1996ULB/KLU]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		52.4 ± 0.1	358	C	[1996ULB/KLU]
	V	(319–424)	50.8	334	A	[1987STE/MAL]
	V	(353–417)	49.4	368		[1973WIL/ZWO]
$C_6H_{14}O$	[594-60-5]	2,3-dimethyl-2-butanol				
	V	(303–340)	54.0 ± 0.8	298	EB	[1991WIB/HAO]
	V	(299–400)	48.8	314	A	[1987STE/MAL]
	V	(298–393)	49.1	313		[1973WIL/ZWO]
$C_6H_{14}O$	[464-07-3]	(*dl*)-3,3-dimethyl-2-butanol				
	V	(280–315)	53.8 ± 0.3	298	GS	[2001KUL/VER]
	V	(302–401)	48.3	317	A	[1987STE/MAL]
	V	(338–393)	46.8	353		[1973WIL/ZWO]
$C_6H_{14}O$	[97-95-0]	2-ethyl-1-butanol				
	V	(275–313)	60.3 ± 0.3	298	GS	[2001KUL/VER]
	V	(321–426)	53.1	336	A	[1987STE/MAL]
	V	(262–295)	65.4	280	A	[1987STE/MAL, 1979THO/MEA]
	V	(298–426)	59.6	313		[1973WIL/ZWO]
	V	(298–418)	U45.5	313	I	[1940HOV/LAN3]
$C_6H_{14}OS$	[4253-91-2]	dipropyl sulfoxide				
	V	(303–323)	61.4 ± 3.1	313	OM	[2013GRI/MAR]
$C_6H_{14}O_2$	[111-76-2]	2-butoxyethanol				
	FUS	(13–300)	11.8	199.5	AC	[2000ATA/KAW]
	V	(407–442)	51.2	422	EB	[2012RED/KUM]
	V	(363–382)	51.2	373	MM	[1999ESC/SAN]
	V	(336–443)	49.5	351	A	[1987STE/MAL, 1972DYK]
	V		56.6 ± 0.1	298	C	[1971KUS/WAD]
	V	(336–443)	52.6	351		[1957DYK/SEP, 1984BOU/FRI]
$C_6H_{14}O_2$	[4461-87-4]	1,1-dimethoxybutane				
	V	(304–329)	41.2	317	EB	[1994WIB/MOR]
$C_6H_{14}O_2$	[3453-99-4]	2,2-dimethoxybutane				
	FUS		9.32	174	TCC	[2003TEO/WIL]
$C_6H_{14}O_2$	[105-57-7]	1,1-diethoxyethane				
	FUS		10.95	167	TCC	[2003TEO/WIL]
	V	(275–308)	39.6 ± 0.3	298	GS	[1998VER/PEN, 2002VER]
	V	(281–384)	41.6	296	A	[1987STE/MAL, 1972DYK]
	V	(273–343)	39.8	288		[1949NIC/LAF, 1984BOU/FRI]
	V	(239–392)	36.2	255		[1947STU]
$C_6H_{14}O_2$	[629-14-1]	1,2-diethoxyethane				
	V	(339–382)	39.3	361		[1987TRE/LU]
	V	(239–393)	37.9	254	A	[1987STE/MAL]
	V		43.2 ± 0.1	298	C	[1970KUS/WAD]
$C_6H_{14}O_2$	[77078-18-3]	1-methoxy-2-propoxyethane				
	V		43.7 ± 0.1	298	C	[1970KUS/WAD]
$C_6H_{14}O_2$	[4439-24-1]	2-isobutoxyethanol				
	V	(344–432)	48.1	359	A	[1987STE/MAL, 1972DYK, 1957DYK/SEP, 1984BOU/FRI]
$C_6H_{14}O_2$	[7580-85-0]	2-*tert*-butoxyethanol				
	FUS	(13–300)	11.4	223.1	AC	[2000ATA/KAW]
$C_6H_{14}O_2$	[6920-22-5]	1,2-hexanediol				
	V	(294–348)	78.7 ± 0.3	298	GS	[2004VER2]
$C_6H_{14}O_2$	[629-11-8]	1,6-hexanediol				
	FUS		26.4	314.7	DSC	[2014BAD/NOW]
	FUS		25.5	316		[2005SMI/KAN]
	FUS		23.8	312	DSC	[2004STU/WIT]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		22.2	314.6	DTA	[1990KNA/SAB]
	FUS		25.52	320.6	DSC	[1996DOM/HEA, 1972GAR/HUS]
	FUS		24.3	315.2	C	[1969COR/GOO]
	SUB		112.0 ± 0.4	298	C	[1990KNA/SAB]
	SUB		108.8		F+ V	[1972GAR/HUS, 1977PED/RYL]
	V		90.2 ± 0.3	298	CGC	[2006UMN/KWE]
	V	(355–559)	98.5 ± 1.8	298	EB, IPM	[1996STE/CHI2]
	V	(355–559)	87.8 ± 1.1	360	EB, IPM	[1996STE/CHI2]
	V	(355–559)	80.8 ± 0.9	400	EB, IPM	[1996STE/CHI2]
	V	(355–559)	73.9 ± 0.7	440	EB, IPM	[1996STE/CHI2]
	V	(355–559)	67.0 ± 0.6	480	EB, IPM	[1996STE/CHI2]
	V		87.0	342		[1993PIA/FER, 2006UMN/KWE]
	V		90.9 ± 4.1	298		[1993PIA/FER, 2006UMN/KWE]
	V		90.7 ± 1.1	298	C	[1990KNA/SAB]
	V	(451–525)	83.3 ± 1.7	298	EB	[1972GAR/HUS, 1977PED/RYL]
$C_6H_{14}O_2$	[4457-71-0]	3-methyl-1,5-pentanediol				
	V	(402–485)	76.9	417	A	[1987STE/MAL]
$C_6H_{14}O_2$	[107-41-5]	(*dl*)-2-methyl-2,4-pentanediol				
	V	(285–329)	68.9 ± 0.4	298	GS	[2007VER]
	V	(370–547)	68.6 ± 0.4	298	EB	[1990DAU/HUT, 2007VER]
	V	(373–473)	58.1	388	A	[1987STE/MAL]
$C_6H_{14}O_2$	[76-09-5]	2,3-dimethyl-2,3-butanediol (pinacol)				
	FUS		14.7	316.2	DSC	[1983PRI/WOO]
	V	(346–448)	59.1	361	A	[1987STE/MAL]
$C_6H_{14}O_2$	[76050-97-0]	1-(methoxymethoxy)butane				
	V	(322–392)	38.6	340		[2015SON/LI]
$C_6H_{14}O_2S$	[34008-94-1]	*tert*-butyl ethyl sulfone				
	SUB		86.6 ± 2.5			[UR/MAC, 1970COX/PIL]
$C_6H_{14}O_3$	[111-96-6]	diethylene glycol, dimethyl ether				
	FUS		17.78	209.1		[1996DOM/HEA, 1966BEA/CLE]
	V	(371–434)	45.4		EB	[2009LI/FAN]
	V		48.0 ± 0.6	298	CGC	[2000NIC/ORF]
	V	(286–433)	47.4	301	A	[1987STE/MAL, 1947STU]
$C_6H_{14}O_3$	[5648-29-3]	3,5,7-trioxanonane				
	V		44.7 ± 0.2	298	C	[1969MAN]
$C_6H_{14}O_3$	[15476-85-4]	*tert*-butyl 2-hydroxyethyl peroxide				
	V	(290–320)	66.4 ± 1.9		ME	[1983VAN/KAC]
$C_6H_{14}O_3$	[111-90-0]	diethylene glycol, monoethyl ether				
	V	(318–475)	52.1	333	A	[1987STE/MAL, 1947STU]
$C_6H_{14}O_3$	[25265-71-8]	dipropylene glycol				
	V	(423–505)	61.2	438	A	[1987STE/MAL]
$C_6H_{14}O_3$	[77-99-6]	2-ethyl-2-hydroxymethyl-1,3-propanediol				
	FUS		20.38	332.6	DSC	[2004STU/WIT]
	TRS		16.36	327.8		
	FUS		0.9	332.7	DSC	[2002CHA/MAN]
	FUS	(270–354)	21.45	333.4	AC	[1989ZHA/YAN]
	V	(433–570)	81.4	448	A	[1987STE/MAL]
$C_6H_{14}O_3$	[106-69-4]	1,2,6-trihydroxyhexane				
	V	(393–433)	97.2	408	A	[1987STE/MAL]
$C_6H_{14}O_3S$		2-methyl-2-propanesulfonic acid, ethyl ester				
	V	(337–343)	U14.0	340	A	[1987STE/MAL]

Note: The temperature range covered is too small to get a very accurate estimate of the enthalpy of vaporization.

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{14}O_3S$	[623-98-3]	dipropyl sulfite				
	V		58.6 ± 1.7	298	BP	[1969MAC/STE2]
$C_6H_{14}O_4$	[2517-44-4]	1,1,2,2-tetramethoxyethane				
	V	(351–432)	42.9	366	A	[1987STE/MAL]
$C_6H_{14}O_4$	[112-27-6]	triethylene glycol				
	V	(442–562)	72.2 ± 0.3	440	EB	[2002STE/CHI3]
	V	(442–562)	68.5 ± 0.3	480	EB	[2002STE/CHI3]
	V	(442–562)	64.6 ± 0.3	520	EB	[2002STE/CHI3]
	V	(442–562)	60.8 ± 0.5	560	EB	[2002STE/CHI3]
	V	(278–323)	77.0	300		[1972MCF/SOM]
	V	(288–303)	67.7	295	A	[1987STE/MAL, 1955ISH/MAT]
	V	(293–303)	60.5	298		[1950WIS/PUC]
	V	(387–552)	71.5	402	A	[1987STE/MAL, 1947STU]
$C_6H_{14}O_4S$	[598-05-0]	dipropyl sulfate				
	V		66.9 ± 1.7	298	BP	[1969MAC/STE2]
$C_6H_{14}O_6$	[608-66-2]	dulcitol				
	FUS		64.5	459.7	DSC	[2015PAU/SHI]
	FUS		65.1	460.3	DSC	[1996DOM/HEA, 1990BAR/DEL]
	SUB		205	298	B	[1990BAR/DEL]
	V	(464–496)	133.8 ± 1.4	482	TE	[1990BAR/DEL]
$C_6H_{14}O_6$	[69-65-8]	D-mannitol				
	FUS (β)		44.8	440.2		
	FUS (δ)		44.3	430.2	DSC	[2013BAR/GIL]
	FUS		59.5	441.0	DSC	[2011KUM/VEI]
	FUS		54.78	439.2	DSC	[2011LEE/THO]
	FUS		54.69	437.3	DSC	[2010TON/LIU]
	FUS		62.1	438.2	DSC	[2008KAI/MAR]
	FUS		61.57	438.2	DSC	[2003GOM/SZA]
	FUS		56.1	439.1	DSC	[1996DOM/HEA, 1990BAR/DEL]
	SUB		202	298	B	[1990BAR/DEL]
	V	(458–501)	135.6 ± 1.1	479	TE	[1990BAR/DEL]
$C_6H_{14}O_6$	[50-70-4]	(D)-sorbitol				
	FUS		35.9	372.0	DSC	[2012JEG/PRA]
	FUS		24.67	367.3	DSC	[2012BIT/MEN]
	FUS (α)		29.8	359.1	DSC	[2009NEZ/AER]
	FUS (β)		31.7	371.2	DSC	[2009NEZ/AER]
	FUS	(80–390)	30.35	369.2	AC	[2008TON/TAN2]
	FUS		U20.0	370.2	DSC	[2008KAI/MAR]
	FUS		39.53	370	DSC	[2003GOM/SZA]
	FUS		30.2	366.5	DSC	[1996DOM/HEA, 1990BAR/DEL]
	SUB		186	298	B	[1990BAR/DEL]
	V	(461–497)	132.4 ± 2.0	477	TE	[1990BAR/DEL]
$C_6H_{14}O_6$		(*l*)-iditol				
	FUS		30.9	352.8		[1993SIN/CAR]
$C_6H_{14}S$	[1741-83-9]	methyl pentyl sulfide				
	V	(321–349)	44.2	336		[1999DYK/SVO]
	V		45.2	298		[1981SHI/SAI]
	V		44.6 ± 0.8	298	GC	[1964MAC/MCC]
	V	(321–350)	42.6	308	EB	[1961NIC/KOB]
$C_6H_{14}S$	[638-46-0]	butyl ethyl sulfide				
	FUS		12.39	178.1		[1985DEA]
	V	(314–445)	43.7	319		[1999DYK/SVO]
	V		44.5	298		[1981SHI/SAI]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		44.9	298		[1971WIL/ZWO]
	V		44.6 ± 0.8	298	GC	[1964MAC/MCC]
	V	(316–348)	43.5	333	EB	[1962MAC/MAY2]
	V	(354–424)	40.7	369	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[5008-72-0]	*sec*-butyl ethyl sulfide				
	V	(304–434)	41.2	319		[1999DYK/SVO]
	V	(345–409)	39.0	360	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[14290-92-7]	*tert*-butyl ethyl sulfide				
	V	(293–420)	39.2	308		[1999DYK/SVO]
	V		39.3	298		[1971WIL/ZWO]
	V	(332–400)	37.1	347	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[625-80-9]	diisopropyl sulfide				
	FUS	(12–380)	10.42	195.1	AC	[1996DOM/HEA, 1967MES/TOD]
	V	(293–420)	39.4	308		[1999DYK/SVO]
	V		39.6 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(324–433)	37.7	339	A, EB	[1987STE/MAL, 1966OSB/DOU]
	V		39.6 ± 0.8	298	GC	[1964MAC/MCC]
	V	(303–328)	38.5	318	EB	[1962MAC/MAY2]
	V	(330–400)	37.4	345	EB	[1952WHI/BAR]
$C_6H_{14}S$	[111-47-7]	dipropyl sulfide				
	FUS	(13–315)	12.13	170.4		[1996DOM/HEA, 1961MCC/FIN]
	V	(313–411)	42.9	328		[1999DYK/SVO]
	V		44.2	298		[1981SHI/SAI]
	V		44.5	298		[1971WIL/ZWO]
	V		39.5	298		[1971WIL/ZWO]
	V		44.7 ± 0.8	298	GC	[1964MAC/MCC]
	V	(353–427)	40.6	368	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[5008-73-1]	isopropyl propyl sulfide				
	V	(303–432)	41.1	318		[1999DYK/SVO]
	V		41.8	298		[1981SHI/SAI]
	V	(343–416)	39.0	358	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[1613-45-2]	ethyl isobutyl sulfide				
	V	(305–401)	41.3	320		[1999DYK/SVO]
	V	(345–414)	39.2	360	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_6H_{14}S$	[111-31-9]	1-hexanethiol				
	FUS		18.03	192.6		[1996DOM/HEA, 1970FIN/MCC]
	V	(320–454)	43.9	335		[1999DYK/SVO]
	V		44.8 ± 0.2	298		[1966GOO/DEP, 1966OSB/DOU]
	V	(352–468)	42.4	367	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_6H_{14}S$	[1679-06-7]	2-hexanethiol				
	V	(310–440)	42.7	325		[1999DYK/SVO]
	V	(328–423)	41.4	343	A	[1987STE/MAL]
$C_6H_{14}S$	[1639-01-6]	2,3-dimethyl-2-butanethiol				
	V	(285–318)	39.3	300		[1999DYK/SVO]
	V	(318–441)	37.8	333		[1999DYK/SVO]
	V		39.3 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(328–441)	37.4	343	A, EB	[1987STE/MAL, 1966OSB/DOU]
$C_6H_{14}S$	[1633-97-2]	2-methyl-2-pentanethiol				
	V		40.0 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(327–439)	38.0	342	A, EB	[1987STE/MAL, 1966OSB/DOU, 1999DYK/SVO]
$C_6H_{14}S_2$	[4253-89-8]	diisopropyl disulfide				
	V	(383–423)	49.3	298	CGC	[1995CHI/HOS]
	V		39.6	298		[1981SHI/SAI]
	V	(377–447)	43.8	392	A, EB	[1987STE/MAL, 1952WHI/BAR, 1999DYK/SVO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{14}S_2$	[629-19-6]	dipropyl disulfide				
	FUS		13.81	187.7		[1996DOM/HEA, 1958HUB/DOU]
	V	(354–499)	47.8	369		[1999DYK/SVO]
	V		53.8 ± 0.1	298	C	[1985KUS]
	V		53.8	298		[1981SHI/SAI]
	V		52.5 ± 0.1	298	C	[1963MOR/SUN]
	V	(389–447)	47.0	404	A, EB	[1987STE/MAL, 1958HUB/DOU, 1966OSB/DOU]
	V	(395–456)	46.6	410	EB	[1952WHI/BAR]
$C_6H_{14}S_2$	[4151-69-3]	ethyl (1,1-dimethylethyl) disulfide				
	V	(373–461)	43.4	388	A, EB	[1987STE/MAL, 1952WHI/BAR, 1999DYK/SVO]
$C_6H_{14}S_2$	[33672-51-4]	isopropyl propyl disulfide				
	V	(383–433)	45.4	398	A	[1987STE/MAL, 1999DYK/SVO]
$C_6H_{14}S_2$	[1191-43-1]	1,6-hexanedithiol				
	V	(379–511)	55.7	394	A	[1987STE/MAL, 1999DYK/SVO]
$C_6H_{14}S_2$	[5395-75-5]	3,6-dithiaoctane				
	V		59.5 ± 0.1	298	C	[1974MAN4]
$C_6H_{14}S_3$	[37460-04-1]	2,5,8-trithianonane (trithiodiethylene glycol, dimethyl ether)				
	V	(391–533)	116.4	406		[1999DYK/SVO]
	V	(391–418)	103.7	404	A	[1987STE/MAL]
$C_6H_{15}N$	[111-26-2]	hexylamine				
	FUS		25.04	252.2	DSC	[2005DOM/MAR]
	V	(323–373)	45.0	298	CGC	[1995CHI/HOS]
	V	(303–406)	42.2	318	A	[1987STE/MAL]
	V		45.1 ± 0.1	298	C	[1969WAD]
$C_6H_{15}N$	[21035-44-9]	(*dl*)-*sec*-butyl ethyl amine				
	V	(283–372)	37.9	298	A	[1987STE/MAL, 1972DYK]
$C_6H_{15}N$	[108-18-9]	diisopropylamine				
	V	(260–412)	35.4	275	A	[1987STE/MAL]
	V	(273–367)	35.6	288	A	[1987STE/MAL]
	V		34.6 ± 0.1	298	C	[1979PET/MAJ]
	V		33.7 ± 0.1	313	C	[1979PET/MAJ]
	V		32.6 ± 0.1	328	C	[1979PET/MAJ]
	V		31.5 ± 0.1	343	C	[1979PET/MAJ]
	V		30.2 ± 0.1	358	C	[1979PET/MAJ]
	V	(300–356)	34.4	315	EB	[1979PET/MAJ]
	V	(291–305)	34.6	298		[1971LEB/KAT2]
	V		34.5 ± 0.1	298	C	[1969WAD]
	V	(273–333)	33.8 ± 0.2	298	I	[1969FRA/WAT]
$C_6H_{15}N$	[21968-17-2]	*N*-isopropyl propylamine				
	V		37.3 ± 0.1	298	C	[1979PET/MAJ]
	V		36.2 ± 0.1	313	C	[1979PET/MAJ]
	V		35.2 ± 0.1	328	C	[1979PET/MAJ]
	V		34.1 ± 0.1	343	C	[1979PET/MAJ]
	V		33.0 ± 0.1	358	C	[1979PET/MAJ]
	V	(312–369)	36.2	327	EB	[1979PET/MAJ]
$C_6H_{15}N$	[13360-63-9]	*N*-butylethylamine				
	V		40.2 ± 0.1	298	C	[1979PET/MAJ]
	V		39.1 ± 0.1	313	C	[1979PET/MAJ]
	V		38.0 ± 0.1	328	C	[1979PET/MAJ]
	V		36.9 ± 0.1	343	C	[1979PET/MAJ]
	V		35.8 ± 0.1	358	C	[1979PET/MAJ]
	V	(313–375)	39.9	328	EB	[1979PET/MAJ]
	V	(283–382)	41.4	298	A	[1987STE/MAL, 1972DYK]
$C_6H_{15}N$	[142-84-7]	dipropylamine				
	V	(321–382)	40.0	336		[2000RES/GON]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(302–422)	39.8	317	A	[1987STE/MAL, 1972DYK]
	V	(291–305)	41.5	298		[1971LEB/KAT2]
	V		40.0 ± 0.1	298	C	[1969WAD]
	V	(273–333)	40.2 ± 0.3	298	I	[1969FRA/WAT]
	V		32.0	381	C	[1901KAH]
$C_6H_{15}N$	[121-44-8]	triethylamine				
	V	(273–353)	33.4 ± 0.2	313		[2009MOK/RAZ]
	V	(273–353)	35.4 ± 0.2	298		[2009MOK/RAZ]
	V	(310–362)	33.9	325	EB	[2006WAN/FAN]
	V	(231–319)	35.2 ± 0.9	275		[2001BAE]
	V	(302–338)	34.1	317	EB	[1990DUT/KAH]
	V	(298–324)	34.6	311	A	[1987STE/MAL]
	V	(283–363)	35.5	298	A	[1987STE/MAL]
	V		34.8 ± 0.2	298	C	[1979MAJ/SVO2]
	V		33.9 ± 0.1	313	C	[1979MAJ/SVO2]
	V		33.0 ± 0.2	328	C	[1979MAJ/SVO2]
	V		32.2 ± 0.1	343	C	[1979MAJ/SVO2]
	V		31.3 ± 0.2	358	C	[1979MAJ/SVO2]
	V	(303–361)	34.8	318	EB	[1979MAJ/SVO2]
	V	(283–313)	35.1	298		[1975CHU/DRU]
	V	(324–357)	33.3	339		[1971LET/BAY]
	V		34.9 ± 0.1	298	C	[1969WAD]
	V	(298–363)	U25.3	313	I	[1953COP/EVE]
	V	(285–337)	33.0	311		[1936THO/LIN]
	V		35.2			[1933MEH]
$C_6H_{15}N$	[927-62-8]	*N*, *N*-dimethyl-1-butanamine				
	V	(331–367)	34.0	349	EB	[2012ROZ/BRU]
$C_6H_{15}N$	[918-02-5]	*N*, *N*-dimethyl *tert*-butyl amine				
	V	(283–318)	34.8	298	A	[1987STE/MAL, 1969DAV/SMI]
$C_6H_{15}NO$	[5888-29-9]	*N*-(methoxymethyl)diethylamine				
	V	(293–318)	38.0	305	A	[1987STE/MAL]
$C_6H_{15}NO$	[100-37-8]	*N*, *N*-diethylethanolamine				
	V	(278–318)	52.5 ± 0.2	298	GS	[2005KAP/SLO]
	V	(332–475)	48.5 ± 0.2	340	EB	[2002STE/CHI5]
	V	(332–475)	45.0 ± 0.2	380	EB	[2002STE/CHI5]
	V	(332–475)	41.6 ± 0.4	420	EB	[2002STE/CHI5]
	V	(332–475)	37.8 ± 0.7	460	EB	[2002STE/CHI5]
	V	(328–433)	48.5	343	A	[1987STE/MAL]
	V	(283–318)	58.5 ± 1.3	298		[1977LEB/NAZ, 2005KAP/SLO]
$C_6H_{15}NO_2$	[110-97-4]	diisopropanolamine				
	FUS		22.74	250.0	DSC	[2010DEL/UUS]
	V	(390–520)	78.5	405		[2013UUS/DEL]
	V	(390–521)	68.0	405	A	[1987STE/MAL, 1972DYK]
$C_6H_{15}NO_2$	[1704-62-7]	2-[2-(dimethylamino)ethoxy]ethanol				
	V	(293–353)	61.9	323	GS	[2011VER/TON]
	V	(293–353)	63.8 ± 0.2	298	GS	[2011VER/TON]
	V	(283–373)	56.6	328		[2011BEL/MOK, 2011VER/TON]
	V	(283–373)	58.7 ± 0.1	298		[2011BEL/MOK, 2011VER/TON]
	V	(333–423)	62.5	298	EB	[1970QUI/HOF, 2011VER/TON]
	V	(412–452)	54.4	427	A	[1987STE/MAL]
$C_6H_{15}NO_2S$	[33718-39-7]	*N*, *N*-diethyl ethanesulfonamide				
	V	(392–526)	55.4	407	A	[1987STE/MAL, 1978LUK/MAK]
$C_6H_{15}NO_3$	[102-71-6]	triethanolamine				
	V		105.9 ± 2.2	298		[1982MIN/SAB]
	V	(523–579)	79.3	538	A	[1987STE/MAL, 1959MCD/SHR, 1984BOU/FRI]
$C_6H_{15}NS$	[64037-64-5]	*N*, *N*-dimethyl-*S*-*tert*-butylthiohydroxylamine				
	V	(328–334)	28.3	331	A	[1987STE/MAL, 1999DYK/SVO]

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_6H_{15}NS$	[100-38-9]	2-diethylaminoethanethiol				
	V	(278–402)	47.5	293	DSC,GS	[2013WIL/HUL]
	V	(278–402)	45.3	323	DSC,GS	[2013WIL/HUL]
	V	(278–402)	43.5	353	DSC,GS	[2013WIL/HUL]
	V	(278–402)	42.6	373	DSC,GS	[2013WIL/HUL]
$C_6H_{15}N_3$	[108-74-7]	1,3,5-trimethylhexahydro-*s*-triazine				
	V	(284–328)	50.8 ± 0.8	306	GS	[2002VER2]
	V	(284–328)	51.2 ± 0.8	298	GS	[2002VER2]
$C_6H_{15}N_3$	[140-31-8]	1-(2-aminoethyl)piperazine				
	V	(296–338)	68.7 ± 0.3	298	GS	[2010EFI/EME]
$C_6H_{15}O_2PS_3$	[640-15-3]	*O*, *O*-dimethyl-*S*-[2-(ethylthio)ethyl]dithiophosphate				
	V	(283–394)	76.8	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_6H_{15}O_3P$	[1809-21-8]	phosphonic acid, dipropyl ester				
	V	(318–467)	38.1	333	A	[1987STE/MAL, 1972DYK, 1958PAG/PUR]
$C_6H_{15}O_3P$	[122-52-1]	triethylphosphite				
	V		53.0	298		[2008SAG/SAF]
$C_6H_{15}O_3PS$	[126-68-1]	*O*, *O*, *O*-triethythiophosphate				
	V	(305–335)	87.5	320	A	[1987STE/MAL, 1999DYK/SVO, 1950BRI/CUT]
$C_6H_{15}O_3PS$	[1186-09-0]	*O*, *O*, *S*-triethythiophosphate				
	V	(312–352)	76.3	327	A	[1987STE/MAL, 1999DYK/SVO, 1950BRI/CUT]
$C_6H_{15}O_3PS_2$	[867-27-6]	phosphorothioic acid, *O*-[2-(ethylthio)ethyl]-*O*, *O*-dimethyl ester				
	V	(283–379)	71	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_6H_{15}O_3PS_2$	[919-86-8]	phosphorothioic acid, *S*-[2-(ethylthio)ethyl]-*O*, *O*-dimethyl ester				
	V	(283–407)	78.8	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_6H_{15}O_4P$	[78-40-0]	triethylphosphate				
	V	(271–480)	64.6	273	ME,DTA	[2014BRO/BUC]
	V	(271–480)	62.1	298	ME,DTA	[2014BRO/BUC]
	V	(271–480)	60.2	323	ME,DTA	[2014BRO/BUC]
	V	(271–480)	58.3	353	ME,DTA	[2014BRO/BUC]
	V	(271–480)	56.3	393	ME,DTA	[2014BRO/BUC]
	V	(271–480)	54.8	433	ME,DTA	[2014BRO/BUC]
	V	(271–480)	53.6	473	ME,DTA	[2014BRO/BUC]
	V	(413–453)	55.7	298	CGC	[2007PAN/ANT2]
	V	(312–484)	46.3	327	A	[1987STE/MAL, 1947STU]
	V	(363–488)	50.9	426		[1930EVA/DAV]
$C_6H_{15}P$	[554-70-1]	triethylphosphine				
	FUS	(6–300)	10.73	188.2	AC	[1999SHE/KAM]
	V	(291–402)	38.3	306	A	[1987STE/MAL, 1972DYK]
	V	(315–353)	39.5	334		[1959KAE/STO]
$C_6H_{16}FN_2OP$	[371-86-8]	*N*, *N*′-diisopropyl phosphorodiamidic fluoride				
	V	(278–398)	58.1	293	A	[1987STE/MAL]
$C_6H_{16}N_2$	[124-09-4]	1,6-hexanediamine				
	FUS		39.38	311.6	DSC	[2006KHI/DAH2]
	FUS		44.0	314.1	AC	[2004MON/VAN, 2014FUL/RUZ]
	FUS		40.21	312.3	DSC	[2002DAL/DEL]
	SUB	(279–314)	104.3	298	Static	[2014FUL/RUZ]
	V	(318–356)	59.9	337	GS	[2011POZ/VER]
	V		63.1 ± 0.2	298	GS	[2011POZ/VER]
	V	(348–474)	49.3	363	A	[1987STE/MAL]
	V	(348–474)	58.8	298	A	[1987STE/MAL, 2011POZ/VER]
	V	(338–473)	51.3	353	A	[1987STE/MAL]
	V	(338–473)	60.2	298	A	[1987STE/MAL, 2011POZ/VER]
$C_6H_{16}N_2$	[15520-10-2]	1,5-diamino-2-methylpentane				

TABLE 9. Phase change enthalpies of C_6 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(283–452)	54.3	387	Static	[2015BOU/NEG]
	V	(283–452)	60.9	298	Static	[2015BOU/NEG]
$C_6H_{16}N_2$	[110-18-9]	1,2-bis(dimethylamino)ethane				
	V	(273–363)	41.4	298	Static	[2015BOU/NEG2]
	V	(295–365)	39.8	330	Static	[2009RAZ/HAJ]
	V	(295–365)	42.2	298	Static	[2009RAZ/HAJ]
$C_6H_{16}N_2$	[100-36-7]	2-diethylaminoethylamine				
	V	(273–363)	45.8	298		[2011KHI/DJE]
$C_6H_{16}N_2O_2$	[4439-20-7]	*N*, *N*-bis(2-hydroxyethyl)ethylenediamine				
	FUS		49.7	373.2		[1997STE/CHI4]
	SUB		142.7	373	B	[1997STE/CHI4]
	V	(399–500)	106.4 ± 6.4	298	EB,IPM	[1997STE/CHI2, 1997STE/CHI4]
	V	(399–500)	91.2 ± 0.2	400	EB,IPM	[1997STE/CHI2, 1997STE/CHI4]
	V	(399–500)	87.7 ± 0.2	440	EB,IPM	[1997STE/CHI2, 1997STE/CHI4]
	V	(399–500)	84.8 ± 0.2	480	EB,IPM	[1997STE/CHI2, 1997STE/CHI4]
$C_6H_{16}N_2O_2$	[929-59-9]	1,2-bis(2-aminoethoxy)ethane				
	V	(293–353)	56.2	323	Static	[2009RAZ/HAJ]
	V	(293–353)	58.8	298	Static	[2009RAZ/HAJ]
$C_6H_{16}N_2O_2$	[3129-93-9]	diisopropyl ammonium nitrite				
	SUB	(288–299)	39.0	293.5	A	[1987STE/MAL, 1965MAR]
$C_6H_{17}N_3$	[56-18-8]	dipropylenetriamine				
	V	(293–442)	70.2	298	Static	[2016BOU/DER]
$C_6H_{18}N_3P$	[1608-26-0]	tris(dimethylamino)phosphine				
	V		41.5 ± 0.6	298	STG	[1995ALM/FIN2]
	V	(298–333)	63.2	313		[1984MIC/JOS]
$C_6H_{18}N_4$	[112-24-3]	triethylenetetramine				
	V	(338–373)	84.7 ± 0.3	298	GS	[2010EFI/EME]
	V	(294–325)	75.6	298	TGA	[1988AFZ/BUT, 2010EFI/EME]
	V	(431–550)	59.8	446	A	[1987STE/MAL, 1972DYK]
	V	(431–492)	71.0 ± 2.6	298	I	[1967SIV/MAT, 2010EFI/EME]

TABLE 10. Phase change enthalpies of C_7 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7ClF_{17}N_2S$		$CF_3SCl[=NCF(CF_3)_2]_2$				
	V		38.9	467	I	[1977KIT/SHR2]
[Note: This is the structure and molecular formula given in paper. A search of *Chemical Abstracts* by molecular formula failed to turn up any hits with this formula.]						
$C_7Cl_5F_{11}O$	[61136-58-1]	1,1,5-trichloro-1-(2,2-dichloro-1,1,2-trifluoroethoxy)-2,2,3,3,4,4,5,5-octafluoropentane				
	V	(364–476)	59.2 ± 0.8	298	EB	[1981VAR/BUL2]
C_7D_8	[2037-26-5]	perdeuterotoluene				
	TRS		3.51	136	DSC	
	FUS		6.02	178	DSC	[1972AHM/EAD]
$C_7F_6O_2$	[59483-82-8]	carbonofluoridic acid pentafluorophenyl ester				
	V		42.3			[1976FAL/DES2]
C_7F_8	[434-64-0]	perfluorotoluene				
	FUS	(13–300)	11.58	207.6		[1991ACR, 1975PAU, 1996DOM/HEA]
	FUS	(10–365)	11.49	207.7	AC	[1996DOM/HEA, 1974AND/MAR]
	V	(288–334)	40.5 ± 0.2	298		[2005DIA/GON]
	V	(291–378)	40.0	306		[1999DYK/SVO]
	V	(285–376)	40.9	300	A	[1987STE/MAL]
	V	(290–400)	40.4	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(291–402)	40.0	306	EB	[1981AMB/ELL2]
	V	(285–334)	41.6 ± 0.2	298		[1973KRE/PRI]
C_7F_{10}	[14451-74-2]	3,3-difluoro-1,2-bis(trifluoromethyl)-4-(difluoroethylene)cyclobutene				
	V	(272–316)	31.5	287	A	[1987STE/MAL, 1999DYK/SVO]
$C_7F_{12}O_2S_4$	[58936-62-2]	pentanebis(dithioperoxoic) acid, hexafluoro-bis(trifluoromethyl) ester				
	V		33.6	370	I	[1976BUR/SHR]
$C_7F_{12}O_6$	[32751-20-5]	hexafluoroperoxyglutaric acid, bis(trifluoromethyl) ester				
	V	(200–390)	47.3	215	A	[1987STE/MAL, 1999DYK/SVO]
	V		47.3			[1971BER/HOH]
C_7F_{14}	[355-02-2]	perfluoromethylcyclohexane				
	SUB		51.6	234	B	[1963BON, 1957ROW/THA]
	V		36.6 ± 2.2	298	CGC	[2012HAS/DRA]
	V	(305–414)	33.1	320		[1999DYK/SVO]
	V	(413–488)	30.2	428		[1999DYK/SVO]
	V	(306–384)	34.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V		34.1 ± 0.3	298		[1981VAR/BUL]
	V	(305–385)	33.4	320	A	[1987STE/MAL, 1970DYK/VAN, 1973DYK/REP]
	V	(306–384)	33.3	321		[1959GOO/DOU, 1984BOU/FRI]
	V	(298–353)	33.8	313		[1957ROW/THA, 1984BOU/FRI]
	V	(272–349)	33.3	310		[1956GLE/REE, 1970DYK/VAN]
	V	(279–360)	32.8	319	I	[1947FOW/HAM]
$C_7F_{15}NS$	[77984-26-0]	2,2,3,3,3,4,4,5,5-octafluoro-1,1,2,3,4,5-hexahydro-1-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]imino]thiophene				
	V		33.9	371		[1981ABE/SHR]
C_7F_{16}	[335-57-9]	perfluoroheptane				
	TRS		6.67	180.4		
	FUS		6.95	221.9	DSC	[1996DOM/HEA, 1986STA]
	SUB		57.7		B	[1963BON, 1951OLI/GRI]
	V	(363–474)	32.6	378		[1999DYK/SVO]
	V	(304–390)	34.4 ± 0.3	320	EB	[1997STE/CHI3]
	V	(304–390)	32.5 ± 0.4	340	EB	[1997STE/CHI3]
	V	(304–390)	30.4 ± 0.6	360	EB	[1997STE/CHI3]
	V	(304–390)	28.1 ± 0.8	380	EB	[1997STE/CHI3]
	V	(304–390)	36.3 ± 0.3	298	EB	[1997STE/CHI3]
	V	(290–355)	35.9	298		[1984BOU/FRI, 1991BAS/SVO]
	V		40.4	343		[1969ERM/SKR, 1997STE/CHI3]
	V		33.3	373		[1969ERM/SKR, 1997STE/CHI3]
	V		26.5	403		[1969ERM/SKR, 1997STE/CHI3]
	V		19.7	433		[1969ERM/SKR, 1997STE/CHI3]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		12.8	463		[1969ERM/SKR, 1997STE/CHI3]
	V	(336–355)	33.1	346		[1959YEN/REE]
	V	(293–355)	34.9	324		[1956GLE/REE]
	V	(271–379)	37.7	286	A	[1987STE/MAL, 1951OLI/GRI, 1970DYK/VAN]
	V		36.3	298		[1951OLI/GRI, 1997STE/CHI3]
	V		31.6	356		[1951OLI/GRI, 1997STE/CHI3]
	V	(275–366)	34.5	320	I	[1947FOW/HAM]
$C_7F_{16}N_2OS$	[62609-64-7]	1,1,1-trifluoro-*N′*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-*N*-[2,2,2-trifluoro-1-(triflurometh yl)ethylidene]methanesulfonimidamide				
	V		33.5	451		[1977KIT/SHR]
$C_7F_{17}N$	[338-81-8]	perfluoro-*N*, *N*-diethylpropylamine				
	V	(283–366)	39.2	325		[1999DYK/SVO]
$C_7HF_5O_2$	[602-94-8]	pentafluorobenzoic acid				
	SUB	(335–359)	91.6 ± 4.2		GS	[1969COX/GUN, 1970COX/PIL]
$C_7HF_{13}O_2$	[375-85-9]	tridecafluoroheptanoic acid				
	V	(359–485)	61.4 ± 0.3	370	EB	[2002STE/CHI]
	V	(359–485)	55.5 ± 0.3	410	EB	[2002STE/CHI]
	V	(359–485)	48.7 ± 0.7	450	EB	[2002STE/CHI]
C_7HF_{15}	[375-83-7]	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7-pentafluoroheptane				
	V	(365–369)	30.7	367		[1966CAR/STE]
	V	(292–322)	37.7	298		[1956MCL/SCO]
	V	(292–370)	37.1	307	A	[1987STE/MAL, 1953KAR/SAY, 1973DYK/REP, 1999DYK/SVO]
$C_7H_2F_{13}NO$	[54181-88-3]	(*E*)-1,1,1,2,3,3,3-heptafluoro-*N*-[2,2,2-trifluoro-1-(2,2,2-trifluoroethoxy)ethylidene]-2-propanamine				
	V		35.7	369		[1975PET/SHR]
$C_7H_3Br_2NO$	[1689-84-5]	3,5-dibromo-4-hydroxybenzonitrile				
	FUS		32.03	464	DSC	[1990DON/DRE]
$C_7H_3ClF_3NO_2$	[777-37-7]	1-(trifluoromethyl)-2-chloro-5-nitrobenzene				
	V	(364–508)	58.1	379	A	[1987STE/MAL, 1953KAR/SAY, 1973DYK/REP, 1999DYK/SVO]
$C_7H_3ClF_3NO_2$	[121-17-5]	1-(trifluoromethyl)-4-chloro-3-nitrobenzene				
	V	(358–495)	57.6	373	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO]
$C_7H_3Cl_2F_3$	[328-84-7]	1-(trifluoromethyl)-3,4-dichlorobenzene				
	V	(353–453)	44.1	368	A	[1987STE/MAL]
	V	(284–446)	41.8	299		[1947STU]
	V	(298–453)	43.1	446		[1935BOO/ELS]
$C_7H_3Cl_2N$	[1194-65-6]	2,6-dichlorobenzonitrile				
	FUS		24.56	421.2	DSC	[2000ROD/VEC]
	FUS		26.17	417.2	DSC	[1991ACR, 1990DON/DRE]
	FUS		25.94	416.7	DSC	[1972PLA]
$C_7H_3Cl_2NO$	[102-36-3]	3,4-dichlorophenylisocyanate				
	V	(373–473)	47.4	388	A	[1987STE/MAL]
	V	(333–463)	48.1	398		[1967KON/ZHU]
$C_7H_3Cl_3O_2$	[50-31-7]	2,3,6-trichlorobenzoic acid				
	FUS		23.85	402.7	DSC	[1991ACR, 1972PLA]
$C_7H_3Cl_5$	[13014-24-9]	1-(trichloromethyl)-3,4-dichlorobenzene				
	V	(438–663)	59.3	453	A	[1987STE/MAL, 1970DYK/VAN, 1973DYK/REP, 1999DYK/SVO]
$C_7H_3F_5$	[771-56-2]	2,3,4,5,6-pentafluorotoluene				
	FUS		13.28	243.7		[1996DOM/HEA, 1971PAU2]
	TRS	(10–376)	0.21	70.3		
	FUS	(10–376)	12.99	243.3		[1996DOM/HEA, 1968COU/HAL]
	V	(403–523)	36.1	418		[1999DYK/SVO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(493–564)	34.9	508		[1999DYK/SVO]
	V	(310–410)	41.2	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(312–416)	39.9	327	A	[1987STE/MAL, 1968AMB, 1973DYK/REP, 1999DYK/SVO]
$C_7H_3I_2NO$	[1689-83-4]	4-hydroxy-3,5-diiodobenzonitrile				
	FUS		33.63	482.9	DSC	[1990DON/DRE]
$C_7H_3I_3O_2$	[88-82-4]	2,3,5-triiodobenzoic acid				
	FUS		32.23	503.8	DSC	[1991ACR, 1972PLA]
C_7H_4BrN	[2042-37-7]	2-bromobenzonitrile				
	SUB		82.1 ± 0.5	281	ME	[2013ROC/GAL]
	SUB		81.8 ± 0.5	298	ME	[2013ROC/GAL]
C_7H_4BrN	[6952-59-6]	3-bromobenzonitrile				
	SUB		78.3 ± 0.5	276	ME	[2013ROC/GAL]
	SUB		77.9 ± 0.5	298	ME	[2013ROC/GAL]
C_7H_4BrN	[623-00-7]	4-bromobenzonitrile				
	SUB		81.0 ± 0.5	288	ME	[2013ROC/GAL]
	SUB		80.8 ± 0.5	298	ME	[2013ROC/GAL]
$C_7H_4Br_2O_2$	[610-71-9]	2,5-dibromobenzoic acid				
	FUS		35.8	428	DSC	[2013VEC/BRU]
	SUB	(347–377)	131.7 ± 1.0	362	TE	[2013VEC/BRU]
	SUB	(347–377)	133.6 ± 1.0	298	TE	[2013VEC/BRU]
	V	(440–468)	90.5 ± 0.8	455	TGA	[2013VEC/BRU]
$C_7H_4Br_2O_2$	[618-58.6]	3,5-dibromobenzoic acid				
	FUS		30.1	491	DSC	[2013VEC/BRU]
	SUB	(355–396)	118.0 ± 0.8	376	TE	[2013VEC/BRU]
	SUB	(355–396)	120.3 ± 0.8	298	TE	[2013VEC/BRU]
	V	(500–530)	82.7 ± 1.2	514	TGA	[2013VEC/BRU]
$C_7H_4ClF_3$	[88-16-4]	1-(trifluoromethyl)-2-chlorobenzene				
	FUS		11.6	264	DSC	[1972AHM/EAD]
	V	(310–426)	44.6	325	A	[1987STE/MAL, 1951POT/SAY, 1970DYK/VAN, 1973DYK/REP]
	V	(293–431)	39.5	426		[1935BOO/ELS]
$C_7H_4ClF_3$	[98-15-7]	1-(trifluoromethyl)-3-chlorobenzene				
	V	(302–411)	43.0	317	A	[1987STE/MAL, 1951POT/SAY, 1970DYK/VAN, 1973DYK/REP]
	V	(294–415)	38.3	411		[1935BOO/ELS]
$C_7H_4ClF_3$	[98-56-6]	1-(trifluoromethyl)-4-chlorobenzene				
	V	(302–412)	42.2	317	A	[1987STE/MAL, 1951POT/SAY, 1970DYK/VAN, 1973DYK/REP]
	V	(293–416)	37.6	412		[1935BOO/ELS]
$C_7H_4ClF_{11}O$	[65064-84-8]	5-(2-chloro-1,1,2-trifluoroethoxy)-1,1,2,2,3,3,4,4-octafluoropentane				
	V		54.1 ± 0.2	298	C	[1981VAR/BUL2]
C_7H_4ClN	[873-32-5]	2-chlorobenzonitrile				
	FUS		17.6	327.5	DSC	[2014ROC/GAL]
	SUB		72.9 ± 0.8	273	ME	[2014ROC/GAL]
	SUB		72.3 ± 0.8	298	ME	[2014ROC/GAL]
	V	(378–486)	53.5	393	EB	[1994AIM2]
C_7H_4ClN	[766-84-7]	3-chlorobenzonitrile				
	FUS		18.7	314.1	DSC	[2014ROC/GAL]
	SUB		77.4 ± 0.5	268	ME	[2014ROC/GAL]
	SUB		76.7 ± 0.5	298	ME	[2014ROC/GAL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_4ClN	[623-03-0]	4-chlorobenzonitrile				
	FUS		18.5	363.5	DSC	[2014ROC/GAL]
	SUB		77.4 ± 0.4	271	ME	[2014ROC/GAL]
	SUB		76.7 ± 0.4	298	ME	[2014ROC/GAL]
	V	(389–483)	51.9	404	EB	[1994AIM2]
C_7H_4ClNO	[2909-38-8]	3-chlorophenyl isocyanate				
	V	(344–432)	53.1	359	A	[1987STE/MAL, 1964GOL/GOR]
C_7H_4ClNO	[104-12-1]	4-chlorophenyl isocyanate				
	V	(363–443)	48.9	378	A	[1987STE/MAL]
	V	(323–433)	47.1	338		[1967KON/ZHU]
C_7H_4ClNO	[615-18-9]	2-chlorobenzoxazole				
	V		56.3 ± 1.6	298	C	[2013SIL/CIM]
$C_7H_4ClNO_2$	[95-25-0]	5-chloro-3*H*-benzooxazol-2-one (chlorzoxazone)				
	FUS		25.65	464	DSC	[2010BAI/VAN]
$C_7H_4ClNO_3$	[121-90-4]	3-nitrobenzoyl chloride				
	V	(428–551)	62.4	443	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_4ClNO_4$	[99-60-5]	2-chloro-4-nitrobenzoic acid				
	FUS (I)		19	414.2		
	FUS (II)		18.7	401.2	DSC	[2008BAR/BER2]
$C_7H_4Cl_2O$	[609-65-4]	2-chlorobenzoyl chloride				
	V	(374–395)	53.4	384	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_4Cl_2O$	[618-46-2]	3-chlorobenzoyl chloride				
	V	(367–391)	49.4	382	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_4Cl_2O$	[122-01-0]	4-chlorobenzoyl chloride				
	V	(370–392)	55.7	381	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_4Cl_2O$	[874-42-0]	2,4-dichlorobenzaldehyde				
	FUS	(79–371)	20.47	347.2	AC	[2004WAN/TAN4]
$C_7H_4Cl_2O_2$	[51-36-5]	3,5-dichlorobenzoic acid				
	FUS		22.97	459.3	DSC	[1991ACR, 1990DON/DRE]
$C_7H_4Cl_3NO_3$	[55335-06-3]	3,5,6-trichloro-2-pyridinyloxyacetic acid				
	FUS		31.17	423.3	DSC	[1990DON/DRE]
$C_7H_4Cl_4$	[2136-89-2]	1-(trichloromethyl)-2-chlorobenzene				
	V	(423–588)	55.0	438	A	[1987STE/MAL, 1970DYK/VAN]
$C_7H_4Cl_4$	[1006-31-1]	2,3,5,6-tetrachlorotoluene				
	V	(399–548)	52.6	414	A	[1987STE/MAL, 1973FEL/SAV, 1999DYK/SVO]
C_7H_4FN	[394-47-8]	2-fluorobenzonitrile				
	V	(287–297)	52.0 ± 0.1	292	Static	[2012RIB/MON]
	V	(287–297)	51.6 ± 0.1	298	Static	[2012RIB/MON]
	V		55.1 ± 0.1	298	C	[2012RIB/MON]
C_7H_4FN	[403-54-3]	3-fluorobenzonitrile				
	SUB	(255–288)	66.1 ± 0.3	272	Static	[2012RIB/MON]
	SUB	(255–288)	65.4 ± 0.3	298	Static	[2012RIB/MON]
	V	(291–297)	50.1 ± 1.2	294	Static	[2012RIB/MON]
	V	(291–297)	49.8 ± 1.2	298	Static	[2012RIB/MON]
	V		53.6 ± 0.6	298	C	[2012RIB/MON]
C_7H_4FN	[1194-02-1]	4-fluorobenzonitrile				
	SUB	(261–300)	68.2 ± 0.1	281	Static	[2012RIB/MON]
	SUB	(261–300)	67.7 ± 0.1	298	Static	[2012RIB/MON]
	SUB		67.6 ± 0.6	298	C	[2012RIB/MON]
	V	(303–339)	50.5 ± 0.1	321	Static	[2012RIB/MON]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(303–339)	51.8 ± 0.1	298	Static	[2012RIB/MON]
$C_7H_4F_3NO_2$	[98-46-4]	1-(trifluoromethyl)-3-nitrobenzene				
	V	(341–475)	53.8	356	A	[1987STE/MAL, 1953KAR/SAY, 1999DYK/SVO]
$C_7H_4F_4$	[5230-78-4]	1,2,4,5-tetrafluoro-3-methylbenzene				
	TRS		3.64	218		
	FUS		5.84	233	DSC	[1972AHM/EAD]
$C_7H_4F_4$	[392-85-8]	1-(trifluoromethyl)-2-fluorobenzene				
	FUS		10.7	222	DSC	[1972AHM/EAD]
	V	(310–410)	38.1	298		[1984BOU/FRI, 1991BAS/SVO]
$C_7H_4F_4$	[401-80-9]	1-(trifluoromethyl)-3-fluorobenzene				
	V	(313–410)	36.8	328	A	[1987STE/MAL, 1970DYK/VAN]
	V	(273–379)	34.5	374		[1935BOO/ELS]
$C_7H_4F_4$	[402-44-8]	1-(trifluoromethyl)-4-fluorobenzene				
	V	(286–381)	35.8	301	A	[1987STE/MAL, 1970DYK/VAN]
	V	(287–380)	35.3	376		[1935BOO/ELS]
$C_7H_4F_{12}O$	[335-99-9]	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoro-1-heptanol				
	V	(355–446)	53.4	370	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_4N_2O_2$	[612-24-8]	2-nitrobenzonitrile				
	TRS		1.57	338.1		
	FUS		15.72	382.7	DSC	[2002JIM/ROU2]
	SUB	(297–311)	87.9 ± 1.4	304	ME	[2003ROU/JIM]
	SUB	(297–311)	88.1 ± 1.4	298	ME	[2003ROU/JIM]
$C_7H_4N_2O_2$	[619-24-9]	3-nitrobenzonitrile				
	FUS		20.49	389.7	DSC	[2002JIM/ROU2]
	SUB	(306–324)	92.2 ± 0.3	316	ME	[2003RIB/SAN]
	SUB	(306–324)	92.8 ± 0.3	298	ME	[2003ROU/JIM]
$C_7H_4N_2O_2$	[619-72-7]	4-nitrobenzonitrile				
	TRS		0.45	349		
	TRS		1.01	386		
	FUS		17.73	420.6	DSC	[2002JIM/ROU2]
	SUB	(305–322)	90.5 ± 1.3	313	ME	[2003ROU/JIM]
	SUB	(305–322)	91.1 ± 1.3	298	ME	[2003ROU/JIM]
$C_7H_4N_2O_5$	[528-75-6]	2,4-dinitrobenzaldehyde				
	FUS	(78–368)	21.18	344.9	AC	[2005WAN/TAN3]
$C_7H_4N_2O_6$	[610-30-0]	2,4-dinitrobenzoic acid				
	FUS		30.6	455.8	DSC	[2009VEC/BRU]
	SUB	(364–402)	132 ± 2	383	TE	[2009VEC/BRU]
	SUB	(364–402)	135 ± 2	298	TE	[2009VEC/BRU]
	V	(503–544)	92 ± 3	522	TGA	[2009VEC/BRU]
	V	(494–539)	91 ± 1	517	TGA	[2009VEC/BRU]
$C_7H_4N_2O_6$	[528-45-0]	3,4-dinitrobenzoic acid				
	FUS		24.6	438.2	DSC	[2009VEC/BRU]
	SUB	(366–399)	126 ± 2	386	TE	[2009VEC/BRU]
	SUB	(366–399)	129 ± 2	298	TE	[2009VEC/BRU]
	V	(518–540)	91 ± 3	529	TGA	[2009VEC/BRU]
	V	(506–536)	91 ± 1	521	TGA	[2009VEC/BRU]
$C_7H_4N_2O_6$	[99-34-3]	3,5-dinitrobenzoic acid				
	FUS		32.13	479.2	DSC	[2015SIN/RAI]
	FUS		33.9	481.7	DSC	[1993BEC/QUA]
	FUS		22.8	480.4		[1971LEB/RYA]
$C_7H_4S_3$	[3354-42-5]	4,5-benzo-1,2-dithiole-3-thione				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(350–361)	102.6 ± 0.4	355		[1972GEI/RAU]
	SUB		107 ± 0.4	298		[1972GEI/RAU]
$C_7H_4S_3$	[934-36-1]	4,5-benzo-1,3-dithiole-2-thione				
	SUB		118.8 ± 0.4	298		[1973RAU/GEI, 1977PED/RYL]
C_7H_5BrO	[618-32-6]	benzoyl bromide				
	V	(320–492)	52.3	335	A	[1987STE/MAL, 1947STU]
C_7H_5BrO	[1122-91-4]	4-bromobenzaldehyde				
	FUS		22.6	334.2	DSC	[2008FAV/FRE]
$C_7H_5BrO_2$	[88-65-3]	2-bromobenzoic acid				
	FUS		24.83	421.6	DSC	[2005RIB/FON]
	FUS		23.0		DSC	[1983HOL]
	SUB	(328–347)	106.8 ± 0.4	338	ME	[2005RIB/FON]
	SUB	(328–347)	108.5 ± 0.6	298	ME	[2005RIB/FON]
	SUB		95.9 ± 0.4	298	C	[1994TAN/SAB]
	SUB		110.9 ± 1.1	298	C	[1987FER/PIL]
	SUB		83.3 ± 0.4		DSC	[1983HOL]
$C_7H_5BrO_2$	[585-76-2]	3-bromobenzoic acid				
	FUS		24.91	430.1	DSC	[2005RIB/FON]
	SUB	(328–347)	104.2 ± 0.5	338	ME	[2005RIB/FON]
	SUB	(328–347)	105.9 ± 0.7	298	ME	[2005RIB/FON]
	SUB		99.2 ± 0.2	298	C	[1994TAN/SAB]
	SUB		105.0 ± 1.1	298	C	[1987FER/PIL]
$C_7H_5BrO_2$	[586-76-5]	4-bromobenzoic acid				
	FUS		30.87	526.3	DSC	[2005RIB/FON]
	SUB	(349–366)	107.4 ± 0.5	358	ME	[2005RIB/FON]
	SUB	(349–366)	110.1 ± 0.8	298	ME	[2005RIB/FON]
	SUB		103.1 ± 0.6	298	C	[1994TAN/SAB]
	SUB		107.6 ± 1.1	298	C	[1987FER/PIL]
C_7H_5ClO	[98-88-4]	benzoyl chloride				
	V	(305–470)	49.6	320	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
C_7H_5ClO	[89-98-5]	2-chlorobenzaldehyde				
	V	(382–563)	49.8	397	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_5ClO_2$	[118-91-2]	2-chlorobenzoic acid				
	FUS		24.67	417.5	DSC	[2009MEL/PIN]
	FUS		27.53	414.2	DSC	[2009DAS/SIN]
	FUS		25.25	414	DSC	[2005RIB/FON]
	FUS		25.73	413.4		[1991ACR, 1983WEA]
	FUS		26.3	414		[1991SAB/HIR]
	FUS		25.52		DSC	[1983HOL]
	SUB	(338–402)	99.9 ± 0.4	370	GS	[2005EME/STR]
	SUB	(338–402)	101.4 ± 0.4	298	GS	[2005EME/STR]
	SUB	(320–339)	105.0 ± 0.4	330	ME	[2005RIB/FON]
	SUB	(320–339)	106.3 ± 0.5	298	ME	[2005RIB/FON]
	SUB		100.9 ± 0.5	298	C	[1995SAB/AGU]
	SUB		116.2 ± 0.6		DSC	[1983HOL]
	SUB		79.5 ± 3.3			[1938WOL/WEG, 1960JON, 1970COX/PIL]
$C_7H_5ClO_2$	[535-80-8]	3-chlorobenzoic acid				
	FUS		23.67	427.9	DSC	[2005RIB/FON]
	FUS		23.85	427.4		[1991ACR, 1983WEA]
	FUS		22.0	427.8		[1991SAB/HIR]
	SUB	(348–404)	98.9 ± 0.8	376	GS	[2005EME/STR]
	SUB	(348–404)	100.6 ± 0.8	298	GS	[2005EME/STR]
	SUB	(320–340)	101.2 ± 0.4	330	ME	[2005RIB/FON]
	SUB	(320–340)	102.5 ± 0.5	298	ME	[2004RIB/SAN3]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		101.4 ± 0.4	298	C	[1995SAB/AGU]
	SUB		99.6	413	C	[1975ADE/BRO]
	SUB		105.8	298	C	[1975ADE/BRO]
	SUB		80.8 ± 3.3			[1938WOL/WEG, 1960JON, 1970COX/PIL]
$C_7H_5ClO_2$	[74-11-3]	4-chlorobenzoic acid				
	FUS		32.0	513.4	DSC	[2013ALM/MON]
	FUS		30.91	512.5	DSC	[2005RIB/FON]
	FUS	(80–580)	13.5	512.3	AC	[2002TAN/SUN]
[Note: This value is considerably lower than the other three reported enthalpies of fusion. This value is likely in error.]						
	FUS		32.26	512.9		[1991ACR, 1983WEA]
	FUS		34.26	513.5		[1991SAB/HIR]
	SUB	(358–398)	105.7 ± 0.8	378	GS	[2005EME/STR]
	SUB	(358–398)	107.9 ± 0.8	298	GS	[2005EME/STR]
	SUB	(333–356)	103.3 ± 0.5	344	ME	[2005RIB/FON]
	SUB	(333–356)	105.2 ± 0.7	298	ME	[2005RIB/FON]
	SUB		102.5 ± 0.4	298	C	[1995SAB/AGU]
	SUB		101.9	413	C	[1975ADE/BRO]
	SUB		107.9	298	C	[1975ADE/BRO]
	SUB		87.9 ± 3.3			[1938WOL/WEG, 1960JON, 1970COX/PIL]
$C_7H_5Cl_2N$	[622-44-6]	phenylcarbonimidic dichloride				
	V	(273–333)	54.0	288	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO, 1948RED/CHA5]
$C_7H_5Cl_2NO_2$	[133-90-4]	3-amino-2,5-dichlorobenzoic acid				
	FUS		37.42	475.6	DSC	[1991ACR, 1990DON/DRE]
$C_7H_5Cl_3$	[94-99-5]	1-(chloromethyl)-2,4-dichlorobenzene				
	V	(413–578)	54.6	428	A	[1987STE/MAL, 1970DYK/VAN, 1973DYK/REP]
$C_7H_5Cl_3$	[98-07-7]	(trichloromethyl)benzene				
	FUS		13.95	236		[1996DOM/HEA, 1987GOA/BOE]
	FUS		10.6	270	DSC	[1972AHM/EAD]
[Note: There is a large discrepancy in the two melting points. The 270 K value is correct.]						
	V		57.6			[1995PAP/PIM]
	V	(318–487)	52.0	333	A	[1987STE/MAL, 1947STU]
$C_7H_5Cl_3$	[2077-46-5]	2,3,6-trichlorotoluene				
	V	(384–509)	62.2	399	A	[1987STE/MAL, 1973FEL/SAV]
$C_7H_5Cl_3N_2O_2$		methyl 4-amino-3,5,6-trichloro-2-picolinate				
	FUS		26.78	394.3	DSC	[1969PLA/GLA]
$C_7H_5FN_2O_4$	[17003-70-2]	(fluorodinitromethyl)benzene				
	V	(328–363)	52.8	343	A	[1987STE/MAL]
$C_7H_5FO_2$	[445-29-4]	2-fluorobenzoic acid				
	FUS		20.1	397.4	DSC	[2012UMN/HAS]
[Note: The above value includes a solid-solid phase transition enthalpy of 0.42 kJ/mole.]						
	SUB	(334–367)	94.8 ± 0.4	350	GS	[2016ZHE/SVE]
	SUB	(334–367)	96.1 ± 0.8	298	GS	[2016ZHE/SVE]
	SUB	(309–323)	93.9 ± 0.5	316	ME	[2000MON/HIL]
	SUB	(309–323)	94.4 ± 0.8	298	ME	[2000MON/HIL]
$C_7H_5FO_2$	[455-38-9]	3-fluorobenzoic acid				
	SUB	(332–363)	92.0 ± 0.5	347	GS	[2016ZHE/SVE]
	SUB	(332–363)	93.3 ± 0.9	298	GS	[2016ZHE/SVE]
	SUB	(303–317)	93.3 ± 0.5	310	ME	[2000MON/HIL]
	SUB	(303–317)	93.6 ± 0.6	298	ME	[2000MON/HIL]
$C_7H_5FO_2$	[456-22-4]	4-fluorobenzoic acid				
	FUS		20.9	451.2	DSC	[2000KAN/SAM]
	SUB	(343–386)	92.2 ± 0.4	364	GS	[2016ZHE/SVE]
	SUB	(343–386)	93.8 ± 0.7	298	GS	[2016ZHE/SVE]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(358–382)	91.2 ± 1.3	370	GS	[1969COX/GUN, 1970COX/PIL, 1987STE/MAL]
	SUB		93.1 ± 3.8	298		[1969COX/GUN, 2000MON/HIL]
$C_7H_5F_3$	[98-08-8]	(trifluoromethyl)benzene				
	FUS		11.99	242	DSC	[1972AHM/EAD]
	FUS		13.77	244		[1996DOM/HEA, 1959SCO/DOU]
	SUB	(222–233)	54.4	227	MG	[1948SEA/HOP]
	V	(468–532)	31.6	483		[1999DYK/SVO]
	V	(323–384)	35.9	338	I	[1992JAD/FRA]
	V	(460–530)	32.4	475		[1985MOU]
	V	(330–410)	37.1	298		[1984BOU/FRI, 1991BAS/SVO]
	V		35.4 ± 0.1	334	C	[1959SCO/DOU]
	V		34.1 ± 0.1	353	C	[1959SCO/DOU]
	V		32.6 ± 0.1	375	C	[1959SCO/DOU]
	V	(328–413)	35.7	343	A, EB	[1987STE/MAL, 1951POT/SAY, 1970DYK/VAN, 1959SCO/DOU, 1999DYK/SVO]
	V	(241–375)	39.1	256		[1947STU]
	V	(275–353)	38.5	290		[1946FIE/SAY]
	V	(273–380)	33.9	375		[1935BOO/ELS]
$C_7H_5F_4NO_2$	[27827-91-4]	1,1,3-trihydrotetrafluoropropyl α-cyanoacrylate				
	TRS		0.3	154		
	FUS		19.95	287.4		[1995LEB/BYK2]
$C_7H_5F_{10}NS$	[54120-09-1]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]ethanimidothioic acid, ethyl ester				
	V		30.1	394		[1975PET/SHR]
$C_7H_5F_{11}O$	[181214-75-5]	1-ethoxy-1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane				
	V	(288–373)	39.0	303	I	[2002MUR/YAM]
$C_7H_5F_{11}O$	[203783-57-7]	1-ethoxy-1,1,2,2,3,4,4,4-octafluoro-3-(trifluoromethyl)butane				
	V	(288–373)	38.3	303	I	[2002MUR/YAM]
$C_7H_5IO_2$	[88-67-5]	2-iodobenzoic acid				
	FUS		21.38	435.1	DTA	[1994TAN/SAB2, 1994TAN/SAB4]
	FUS		26.23		DSC	[1983HOL]
	SUB	(362–411)	109.2 ± 0.5	386	GS	[2016ZHE/SVE]
	SUB	(362–411)	111.4 ± 0.8	298	GS	[2016ZHE/SVE]
	SUB	(345–359)	111.4 ± 0.8	352	ME	[2000MON/HIL]
	SUB	(345–359)	112.8 ± 2.0	298	ME	[2000MON/HIL]
	SUB		92.6 ± 0.2	298	C	[1995SAB/AGU, 1994TAN/SAB2, 1994TAN/SAB4]
	SUB		103.0 ± 0.4	298	DSC	[1983HOL]
$C_7H_5IO_2$	[618-51-9]	3-iodobenzoic acid				
	FUS		28.7	460.4	DTA	[1994TAN/SAB2, 1994TAN/SAB4]
	SUB	(367–422)	106.6 ± 0.4	394	GS	[2016ZHE/SVE]
	SUB	(367–422)	109.1 ± 0.8	298	GS	[2016ZHE/SVE]
	SUB	(347–363)	109.6 ± 0.5	355	ME	[2000MON/HIL]
	SUB	(347–363)	111.1 ± 1.9	298	ME	[2000MON/HIL]
	SUB		96.4 ± 0.3	298	C	[1995SAB/AGU, 1994TAN/SAB2, 1994TAN/SAB4]
$C_7H_5IO_2$	[619-58-9]	4-iodobenzoic acid				
	FUS		35.24	543.8	DTA	[1994TAN/SAB2, 1994TAN/SAB4]
	SUB	(389–433)	108..3 ± 0.5	411	GS	[2016ZHE/SVE]
	SUB	(389–433)	111.2 ± 1.0	298	GS	[2016ZHE/SVE]
	SUB	(363–379)	111.0 ± 0.4	372	ME	[2000MON/HIL]
	SUB	(363–379)	112.9 ± 2.5	298	ME	[2000MON/HIL]
	SUB		99.3 ± 0.4	298	C	[1995SAB/AGU, 1994TAN/SAB2, 1994TAN/SAB4]
C_7H_5N	[100-47-0]	benzonitrile				
	FUS		10.98	260.3		[1985LEB/BYK]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(301–464)	49.1	316	A	[1987STE/MAL, 1947STU]
	V		37.8	462	C	[1901KAH2]
C_7H_5N	[931-54-4]	phenyl isocyanide				
	V	(285–438)	46.2	300	A	[1987STE/MAL, 1947STU]
C_7H_5NO	[273-53-0]	benzoxazole				
	FUS		15.92	302.9	DTA	[1998SAB/HEV]
	TRS		0.02	247		
	FUS		16.78	302.5		[1996DOM/HEA, 1992STE/CHI2]
	SUB		69.2 ± 0.8	298	C	[2013SIL/CIM]
	SUB		69.5 ± 0.4	298	C	[1998SAB/HEV]
	V	(280–500)	51.2	320	EB, IPM	[1992STE/CHI2]
	V	(280–500)	48.6	360	EB, IPM	[1992STE/CHI2]
	V	(280–500)	46.1	400	EB, IPM	[1992STE/CHI2]
	V	(280–500)	43.5	440	EB, IPM	[1992STE/CHI2]
	V	(280–500)	40.7	480	EB, IPM	[1992STE/CHI2]
C_7H_5NO	[103-71-9]	phenyl isocyanate				
	V	(329–445)	46.5 ± 0.3	298	EB	[1996STE/CHI3]
	V	(329–445)	44.4 ± 0.3	340	EB	[1996STE/CHI3]
	V	(329–445)	42.5 ± 0.3	380	EB	[1996STE/CHI3]
	V	(329–445)	40.4 ± 0.3	420	EB	[1996STE/CHI3]
	V	(283–439)	45.0	298	A	[1987STE/MAL, 1947STU]
C_7H_5NO	[7187-01-1]	2-furanacrylonitrile				
	V		65.2 ± 0.6	298	C	[2009RIB/AMA2]
C_7H_5NO	[271-58-9]	benz[a]isoxazole (anthranil)				
	V		55.3 ± 0.3	298	C	[2004MAT/MIR3]
C_7H_5NO	[873-62-1]	3-cyanophenol				
	SUB	(303–328)	92.8		ME	[1974LIO/HOP]
C_7H_5NO	[767-00-0]	4-cyanophenol				
	SUB	(303–328)	93.3		ME	[1974LIO/HOP]
C_7H_5NOS	[2382-96-9]	2-mercaptobenzoxazole (its tautomeric name is 3*H*-1,3-benzoxazole-2-thione)				
	FUS		25.0	470	DSC	[2008TEM/ROU3]
	FUS		22.6 ± 0.9	468.3	DSC	[2008MEN/FLO]
	SUB	(355–371)	105.4 ± 1.8	363	ME	[2010ROU/TEM]
	SUB	(355–371)	107.5 ± 1.8	298	ME	[2010ROU/TEM]
C_7H_5NOS	[2634-33-5]	1,2-benzisothiazol-3(2*H*)-one				
	FUS		20.87	428.8	DSC	[2011MIR/MAT2]
	SUB		112.4 ± 2.5	298	C	[2011MIR/MAT2]
C_7H_5NOS	[934-34-9]	2-benzothiazolinone				
	FUS		19.6	410.8	DSC	[2014SIL/MOR]
	SUB		101.2 ± 2.7	298	C	[2014SIL/MOR]
$C_7H_5NO_2$	[59-49-4]	2-benzoxazolinone				
	SUB		97.6 ± 2.2	298	C	[2006MOR/MIR2]
$C_7H_5NO_3$	[552-89-6]	2-nitrobenzaldehyde				
	V	(390–547)	58.7	405	A	[1987STE/MAL]
	V	(359–547)	59.5	373		[1947STU]
$C_7H_5NO_3$	[99-61-6]	3-nitrobenzaldehyde				
	V	(401–552)	62.0	416	A	[1987STE/MAL]
$C_7H_5NO_3S$	[81-07-2]	1,1-dioxo-1,2-benzisothiazol-3(2*H*)-one (saccharin)				
	FUS		32.1	502.9	DSC	[2009GOO/ROD]
	FUS		26.77	502.7	DSC	[2008BAS/BOS]
	FUS		29.89	500.7	DSC	[2005MAT/MIR]
	SUB		112.6 ± 4.2	298	C	[2005MAT/MIR]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_5NO_4$	[552-16-9]	2-nitrobenzoic acid				
	FUS		27.99	419		[1996DOM/HEA, 1926AND/LYN]
	SUB	(346–356)	115.8 ± 0.5	356	ME	[1999RIB/MAT]
	SUB	(346–356)	118.7 ± 0.5	298	ME	[1999RIB/MAT]
$C_7H_5NO_4$	[121-92-6]	3-nitrobenzoic acid				
	FUS		15.9	408.7	DSC	[2004GUP/SIN]
	FUS		19.33	414.3		[1996DOM/HEA, 1926AND/LYN]
	SUB	(347–361)	107.2 ± 0.4	354	ME	[1999RIB/MAT]
	SUB	(347–361)	110.0 ± 0.4	298	ME	[1999RIB/MAT]
$C_7H_5NO_4$	[62-23-7]	4-nitrobenzoic acid				
	FUS		36.9	512.4		[1996DOM/HEA, 1926AND/LYN]
	SUB	(367–381)	115.4 ± 0.6	374	ME	[1999RIB/MAT]
	SUB	(367–381)	119.7 ± 0.6	298	ME	[1999RIB/MAT]
$C_7H_5NO_4$	[100-26-5]	pyridine-2,5-dicarboxylic acid				
	SUB		163.6 ± 2.7	298	C	[2005MAT/MOR]
$C_7H_5NO_4$	[499-83-2]	pyridine-2,6-dicarboxylic acid				
	SUB		137.1 ± 5.7	298	C	[2005MAT/MOR]
$C_7H_5NO_4$	[1874-22-2]	3-(5-nitro-2-furyl)-2-propenal				
	SUB		97.9 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
$C_7H_5NO_4$	[2620-44-2]	5-nitro-1,3-benzodioxole				
	FUS		28.2	420.2	DSC	[2007MAT/SOU]
	SUB		97.4 ± 2.2	298	C	[2007MAT/SOU]
C_7H_5NS	[95-16-9]	benzothiazole				
	FUS		11.95	275.5	DTA	[1998SAB/HEV]
	TRS		0.04	245		
	FUS		12.59	275.65		[1996DOM/HEA, 1992STE/CHI2]
	FUS	(6–320)	12.8	275.6	AC	[1996DOM/HEA, 1969GOU/WES]
	FUS		13.3	276.0	CR	[1963MEY, 1969GOU/WES]
	SUB		72.9 ± 0.6	298	B	[1998SAB/HEV]
	V		58.8 ± 1.3	298	C	[2014SIL/CIM]
	V		60.9 ± 0.5	298	C	[1998SAB/HEV]
	V	(305–555)	58.7	320	EB, IPM	[1992STE/CHI2]
	V	(305–555)	56.0	360	EB, IPM	[1992STE/CHI2]
	V	(305–555)	53.5	400	EB, IPM	[1992STE/CHI2]
	V	(305–555)	50.9	440	EB, IPM	[1992STE/CHI2]
	V	(305–555)	48.4	480	EB, IPM	[1992STE/CHI2]
	V	(305–555)	45.7	520	EB, IPM	[1992STE/CHI2]
C_7H_5NS	[103-72-0]	phenyl isothiocyanate				
	V	(320–492)	52.6	335	A	[1987STE/MAL, 1947STU]
$C_7H_5NS_2$	[149-30-4]	2-mercaptobenzothiazole (its tautomeric name is 3*H*-1,3-benzothiazole-2-thione)				
	FUS		22.3 ± 0.2	455.9	DSC	[2008TEM/ROU3]
	FUS		20.56	453.5	DSC	[2008MEN/FLO]
	SUB	(376–390)	108.7 ± 2.4	383	ME	[2010ROU/TEM]
	SUB	(376–390)	111.0 ± 2.4	298	ME	[2010ROU/TEM]
$C_7H_5N_3O$	[90-16-4]	1,2,3-benzotriazin-4(3*H*)-one				
	SUB		111.3 ± 3.4	298	C	[2011MIR/MAT3]
$C_7H_5N_3O_2$	[5401-94-5]	5-nitroindazole				
	SUB	(377–399)	116.7 ± 0.9	388	ME	[2010RIB/CAB]
	SUB	(377–399)	121.2 ± 0.9	298	ME	[2010RIB/CAB]
$C_7H_5N_3O_2$	[7597-18-4]	6-nitroindazole				
	SUB	(359–381)	113.4 ± 0.6	370	ME	[2010RIB/CAB]
	SUB	(359–381)	117.0 ± 0.6	298	ME	[2010RIB/CAB]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_5N_3O_6$	[610-25-3]	2,4,5-trinitrotoluene				
	FUS		24.7	376.2		[1996DOM/HEA, 1971CHI/THO]
$C_7H_5N_3O_6$	[118-96-7]	2,4,6-trinitrotoluene				
	FUS		22.0	354.0	DSC	[2010RAM/FEL]
	FUS		23.43	352.2	DSC	[1993ACR, 1990HWA/TAM]
	FUS		22.36	354.1		[1962CAD/ROD, 1969MAY/THO]
	SUB	(323–353)	144.5	338	TGA	[2013LIU/ZHA]
	SUB		99.6 ± 5		UV/Vis	[2012HIK/WEE]
	SUB	(313–338)	106.8		TGA	[2011FEL/RAM]
	SUB	(288–328)	91	308	HSA	[2009OXL/SMI]
	SUB		104.2		DSC	[1990HWA/YOS]
	SUB	(293–353)	112.4	308	A	[1987STE/MAL]
	SUB		81			[1985DOB/CRA, 2009OXL/SMI]
	SUB	(301–349)	113.2 ± 1.5	298	ME	[1979KUD/KUD2]
	SUB	(297–330)	99.2 ± 2		GS	[1976PEL, 1977PEL]
	SUB		104.6 ± 1.7	298	ME	[1971LEN/VEL]
	SUB	(327–349)	103.3 ± 2.5	338		[1970LEN/VEL]
	SUB		U112-132		TGA	[1970MAY/VEN, 1978CUN/PAL]
	SUB	(323–353)	118.4 ± 4.2		ME	[1950EDW, 1960JON, 1970COX/PIL]
	SUB		102.2			[1950NIT/SEK]
	V	(363–423)	89.2	393	TGA	[2013LIU/ZHA]
	V		80.8		DSC	[1990HWA/YOS]
	V	(353–523)	93.7	368	A	[1987STE/MAL]
	V		87.0 ± 1.9	298	ME	[1978CUN/PAL]
$C_7H_5N_3O_7$	[606-35-9]	2,4,6-trinitroanisole				
	SUB	(334–342)	132.4	338	A	[1987STE/MAL]
	SUB		133.1 ± 2.1			[1950NIT/SEK, 1970COX/PIL]
	V	(342–363)	91.9	352	A	[1987STE/MAL]
$C_7H_5N_3O_7$	[602-99-3]	3-hydroxy-2,4,6-trinitrotoluene				
	SUB	(310–365)	111.2 ± 2.1	298		[1978CUN/PAL]
	SUB	(325–350)	103.3	337		[1970LEN/VEL]
	SUB		104.6	298		[1970LEN/VEL]
$C_7H_5N_5O_8$	[479-45-8]	2,4,6-*N*-tetranitro-*N*-methylaniline				
	FUS		22.93	402.6		[1973KRI/LIC]
	FUS		25.86	402.6		[1996DOM/HEA, 1971HAL]
	SUB		133.1		DSC	[1990HWA/YOS]
	SUB	(335–416)	133.8 ± 1.6	298	ME	[1978CUN/PAL]
	V		108.4		DSC	[1990HWA/YOS]
C_7H_6ClF	[443-83-4]	1-chloro-3-fluoro-2-methylbenzene				
	FUS		12.6	246	DSC	[1972AHM/EAD]
$C_7H_6ClNO_2$	[612-23-7]	1-(chloromethyl)-2-nitrobenzene				
	SUB		96.2 ± 3.5		ME	[2006HOS/NAG]
$C_7H_6Cl_2$	[98-87-3]	(dichloromethyl)benzene				
	V	(308–487)	49.5	323	A	[1987STE/MAL, 1947STU]
$C_7H_6Cl_2$	[95-73-8]	2,4-dichlorotoluene				
	V	(346–475)	50.6	361	A	[1987STE/MAL, 1973FEL/SAV, 1999DYK/SVO]
$C_7H_6Cl_2$	[118-69-4]	2,6-dichlorotoluene				
	FUS		10.7	272	DSC	[1972AHM/EAD]
	V	(275–305)	51.6 ± 0.3	298	GS	[2014VER/EME]
$C_7H_6Cl_2$	[95-75-0]	3,4-dichlorotoluene				
	V	(378–543)	49.4	393	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]
$C_7H_6Cl_2O$	[1984-59-4]	2,3-dichloroanisole				
	FUS		22.04	304.1	DSC	[2008RIB/FER]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		83.6 ± 1.5	298	C	[2008RIB/FER]
$C_7H_6Cl_2O$	[33719-74-3]	3,5-dichloroanisole				
	FUS		23.68	310.5	DSC	[2008RIB/FER]
	SUB		79.0 ± 1.5	298	C	[2008RIB/FER]
$C_7H_6Cl_3NO_2$	[77765-42-5]	2,2,4-trichloro-5-(dimethylamino)-4-cyclopentene-1,3-dione				
	V	(453–483)	70.9	468	GC	[1980SHA/SAD]
C_7H_6FNO	[445-28-3]	2-fluorobenzamide				
	FUS		23.8	388.5	DSC	[2010ALM/MON2]
	SUB	(303–325)	95.0 ± 0.3	314	ME	[2010ALM/MON2]
	SUB	(303–325)	95.4 ± 0.3	298	ME	[2010ALM/MON2]
	SUB	(317–377)	93.0 ± 0.1	348	Static	[2010ALM/MON2]
	V	(358–412)	73.6 ± 0.1	298	Static	[2010ALM/MON2]
C_7H_6FNO	[455-37-8]	3-fluorobenzamide				
	FUS		24.6	401.6	DSC	[2010ALM/MON2]
	SUB	(323–345)	103.1 ± 0.5	334	ME	[2010ALM/MON2]
	SUB	(323–345)	104.1 ± 0.5	298	ME	[2010ALM/MON2]
	SUB	(337–396)	102.9 ± 0.1	369	Static	[2010ALM/MON2]
	V	(383–432)	83.2 ± 0.2	298	Static	[2010ALM/MON2]
C_7H_6FNO	[824-75-9]	4-fluorobenzamide				
	FUS		24.9	429.2	DSC	[2010ALM/MON2]
	SUB	(345–425)	102.8 ± 0.1	298	Static	[2010ALM/MON2]
	V	(410–438)	83.3 ± 0.1	298	Static	[2010ALM/MON2]
$C_7H_6F_3N$	[98-16-8]	1-(trifluoromethyl)-3-aminobenzene				
	V	(334–464)	53.1	349	A	[1987STE/MAL, 1953KAR/SAY, 1999DYK/SVO]
$C_7H_6F_3NS$	[1045821-71-3]	*N*-(trifluoromethyl)thioaniline				
	V	(333–413)	47.0	348	A	[1987STE/MAL]
$C_7H_6F_6O_4$	[1513-62-8]	dimethylperfluoroglutarate				
	V		52.3	298	EB	[1976KOL/SLA]
$C_7H_6F_8O_3$	[1422-70-4]	bis-(tetrafluoropropyl)carbonate				
	FUS		41.05	253.4		[1996DOM/HEA, 1980LEB/DOB]
	V	(283–313)	66.5 ± 0.9	298		[1980LEB/DOB]
$C_7H_6INO_2$	[6277-17-4]	2-iodo-3-nitrotoluene				
	FUS	(79–373)	20.68	339.3	AC	[2000DI/LI]
$C_7H_6N_2$	[51-17-2]	benzimidazole				
	FUS		22.7	444	DSC	[2007DRA/JAN]
	TRS		0.71	384.4		
	FUS		20.47	445.5	DSC	[2002DOM/KOZ]
	FUS		19.25	443.2		[1984DOM/EVA]
	SUB		90.2 ± 0.6	363	C	[1998SAB/HEV2]
	SUB		94.3 ± 0.6	298		[1998SAB/HEV2]
	SUB	(340–359)	101.8 ± 0.4	350	ME	[1987JIM/ROU]
	SUB	(340–359)	102.2 ± 0.4	298	ME	[1987JIM/ROU]
	SUB		98.9 ± 0.4	298		[1986JIM/ROU]
$C_7H_6N_2$	[271-44-3]	indazole				
	SUB	(308–317)	90.9 ± 0.2	318	ME	[1987JIM/ROU]
	SUB	(308–317)	91.1 ± 0.2	298	ME	[1987JIM/ROU, 1986JIM/ROU]
	SUB		87.7 ± 0.9			[1985SKI/PIL]
	SUB		97.1			[1961ZIM/GEI]
$C_7H_6N_2$	[274-76-0]	imidazo[1,2-a]pyridine				
	V		67.4 ± 0.2	298	GS	[2011LIP/RAT]
	V		67.1 ± 4.6	298	CGC	[2011LIP/RAT]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		60.5 ± 2.6	298	CGC	[2011LIP/RAT]
$C_7H_6N_2O$	[615-16-7]	1,3-dihydro-2*H*-benzimidazol-2-one				
	SUB		126.4 ± 2.4	298	C	[2006MOR/MIR2]
$C_7H_6N_2O$	[7364-25-2]	1,2-dihydro-3*H*-indazol-3-one				
	SUB		127.6 ± 1.5	298	C	[2006MOR/MIR2]
$C_7H_6N_2O_2$	[4413-48-3]	5-methoxybenzofurazan				
	SUB		89.2 ± 0.7	298	C	[1996ACR/BOT]
$C_7H_6N_2O_2$	[19164-41-1]	5-methylbenzofurazan-1-oxide				
	SUB		92.2 ± 1.2	298	C	[1996ACR/BOT]
$C_7H_6N_2O_3$	[7791-49-3]	5-methoxybenzofurazan-1-oxide				
	SUB		96.0 ± 1.6	298	C	[1996ACR/BOT]
$C_7H_6N_2O_3$	[6635-41-2]	2-nitrobenzaldoxime				
	SUB (anti)		U26.4 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U40.2 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_6N_2O_3$	[3431-62-7]	3-nitrobenzaldoxime				
	SUB (anti)		U41.0 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U42.7 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_6N_2O_3$	[1129-37-9]	4-nitrobenzaldoxime				
	SUB (anti)		U56.4 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_6N_2O_3$	[610-15-1]	2-nitrobenzamide				
	FUS		27.7	446.9	DSC	[2014XIM/FLO]
	SUB		117.9 ± 2.4	298	V + F	[2014XIM/FLO]
	V		84.7 ± 2.4	510	TGA	[2014XIM/FLO]
	V		98.3 ± 2.4	298	TGA	[2014XIM/FLO]
$C_7H_6N_2O_3$	[645-09-0]	3-nitrobenzamide				
	FUS		24.6	414.7	DSC	[2014XIM/FLO]
	SUB		108.8 ± 1.6	298	V + F	[2014XIM/FLO]
	V		76.9 ± 1.5	510	TGA	[2014XIM/FLO]
	V		90.5 ± 1.5	298	TGA	[2014XIM/FLO]
$C_7H_6N_2O_3$	[619-80-7]	4-nitrobenzamide				
	FUS		30.1	473.5	DSC	[2014XIM/FLO]
	SUB		114.2 ± 1.5	298	V + F	[2014XIM/FLO]
	V		80.1 ± 1.5	510	TGA	[2014XIM/FLO]
	V		93.7 ± 1.5	298	TGA	[2014XIM/FLO]
$C_7H_6N_2O_4$	[25321-14-6]	1,1-dinitrophenylmethane				
	SUB	(312–323)	76.1 ± 0.8		ME	[1972PEP/MAT]
$C_7H_6N_2O_4$	[602-01-7]	2,3-dinitrotoluene				
	FUS		17.57	329.8	DSC	[1993ACR, 1990HWA/TAM]
	SUB	(270–315)	97.0 ± 2.1	293	ME, QCM	[2008FRE/KEB]
$C_7H_6N_2O_4$	[121-14-2]	2,4-dinitrotoluene				
	FUS		22.62	343.4	DSC	[2010RAM/FEL]
	FUS		20.47		DSC	[2004WOL/KSI]
	FUS		22.18	340.8	DSC	[1993ACR, 1990HWA/TAM]
	FUS		20.12	343.3	DSC	[1991ACR, 1983WEA]
	FUS		20.9		DTA	[1964DAV]
	SUB	(313–338)	96.2		TGA	[2011FEL/RAM]
	SUB	(270–315)	94.7 ± 2.3	293	ME, QCM	[2008FRE/KEB]
	SUB		94.2 ± 2.5		GS	[2008FRE/KEB, 2001RIT]
	SUB	(332–342)	98.3 ± 2.5	337	ME	[1977PED/RYL, 1970LEN/VEL]
	SUB		99.6 ± 2.5	298		[1977PED/RYL, 1970LEN/VEL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(277–344)	95.8 ± 1.25	310	GS	[1976PEL, 1977PEL]
	SUB		99.6 ± 1.3		ME	[1970COX/PIL, 1971LEN/VEL]
	V	(344–572)	76.9	359	A	[1987STE/MAL]
	V	(473–572)	58.2	488	A	[1987STE/MAL, 1968MAK, 1973DYK/REP]
	V	(354–439)	70.2			[1977PEL, 1958MOL]
$C_7H_6N_2O_4$	[606-20-2]	2,6-dinitrotoluene				
	FUS		23.85	327.5	DSC	[1993ACR, 1990HWA/TAM]
	FUS (α)		19.28	324.3		
	FUS (β)		16.07	339.2	DSC	[1990FIN/PAY]
	SUB	(275–325)	99.6 ± 2.3	293	ME, QCM	[2008FRE/KEB]
	SUB	(277–323)	98.3 ± 0.8	300	GS	[1976PEL, 1977PEL]
	V	(330–533)	77.8	345	A	[1987STE/MAL]
	V	(423–553)	56.9	438	A	[1987STE/MAL, 1968MAK]
	V	(344–427)	68.7			[1977PEL, 1958MOL]
$C_7H_6N_2O_4$	[610-39-9]	3,4-dinitrotoluene				
	FUS		18.83	329.5	DSC	[1993ACR, 1990HWA/TAM]
	SUB	(270–315)	99.6 ± 1.9	293	ME, QCM	[2008FRE/KEB]
$C_7H_6N_2O_4$	[618-85-9]	3,5-dinitrotoluene				
	V	(493–543)	62.6	508	A	[1987STE/MAL, 1968MAK]
$C_7H_6N_2O_4$	[611-38-1]	(dinitromethyl)benzene				
	SUB	(312–323)	76.1	317.5	A	[1987STE/MAL]
$C_7H_6N_2O_5$	[497-56-3]	3,5-dinitro-*o*-cresol				
	SUB	(290–324)	103.3		TE	[1947BAL, 1960JON]
$C_7H_6N_2O_5$	[534-52-1]	2-methyl-4,6-dinitrophenol				
	FUS		19.41	359.3	DSC	[1991ACR, 1990DON/DRE]
$C_7H_6N_2O_5$	[119-27-7]	2,4-dinitroanisole				
	FUS		20.23	369.4	DSC	[2012XIN/ZHA]
	SUB	(328–363)	U248	345	TGA	[2014CUD/POD]
	SUB	(323–363)	124.0	343	TGA	[2013LIU/ZHA]
	V	(373–423)	95.9	398	TGA	[2013LIU/ZHA]
$C_7H_6N_2S$	[583-39-1]	2-mercaptobenzimidazole				
	FUS		24.11	589.4	DSC	[2008MEN/FLO]
$C_7H_6N_2S$	[136-95-8]	2-aminobenzothiazole				
	FUS		18.14	402.3	DSC	[2014CAM/MEN]
	FUS		19.63	402.2	DSC	[2012SHA/SHA]
	SUB	(333–354)	103.5 ± 0.2	343	ME	[2014SIL/MON]
	SUB	(333–354)	104.7 ± 0.4	298	ME	[2014SIL/MON]
	SUB		102.1 ± 1.8	298	C	[2014SIL/MON]
C_7H_6O	[100-52-7]	benzaldehyde				
	FUS	(13–360)	9.33	216	AC	[1996DOM/HEA, 1975AMB/CON]
	V	(278–313)	49.0 ± 0.7	298	GS	[2007EME/DAB]
	V	(313–353)	49.1	298	CGC	[1995CHI/HOS]
	V	(348–452)	49.5	363	A	[1987STE/MAL]
	V	(409–481)	43.8	424	A	[1987STE/MAL]
	V	(311–376)	48.6	326	A	[1987STE/MAL]
	V	(370–475)	45.5	385	A	[1987STE/MAL]
	V	(465–541)	41.9	480	A	[1987STE/MAL]
	V	(529–599)	40.6	544	A	[1987STE/MAL]
	V	(311–404)	50.3	298	EB	[1975AMB/CON]
	V	(311–404)	42.5	452	EB	[1975AMB/CON]
	V	(273–373)	47.0	288	A, BG	[1987STE/MAL, 1973DEM/LEH]
	V	(299–452)	54.4	314		[1947STU]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_6O	[539-80-0]	2,4,6-cycloheptatrienone (tropone)				
	V	(273–323)	54.2	288	A	[1987STE/MAL, 1971JAC/HUN]
$C_7H_6O_2$	[65-85-0]	benzoic acid				
	FUS		U12.46	394.2	DSC	[2014HAS/JIR]
	FUS		17.91	395.4	CVC	[2014FON/GUS]
	FUS		17.06	395.0	DSC	[2013BOU/TEY]
	FUS		18.6	396.0	DSC	[2012MAH/AND]
	FUS		18.0	395.5	DSC	[2012CHA/LAY]
	FUS		16.82	394.9	DSC	[2012YAN/THA]
	FUS		18.7	396.1	DSC	[2012WAN/DEN]
	FUS		18.71	396.1	DSC	[2010WAN/LAI]
	FUS		18.5	394.5		[2009SHA/TAN]
	FUS		18.65	394.6	DSC	[2009DAS/SIN, 2008SIN/DAS2]
	FUS		16.99	396.9	DSC	[2009BRI2]
	FUS		15.3	395.6	DSC	[2008GHI/BEA]
	FUS		15.37	396.2	DSC	[2004STU/WIT]
	FUS		17.3	394.4	DSC	[2003SHA/KAN, 2004SHA/JAM]
	FUS		17.1	395.4	DSC	[2002ROY/RIG]
	FUS		17.3		DSC	[1992SHA/SHA]
	FUS		18.06	395.5		[1980AND/CON]
	FUS		17.32	395.0		[1967PAC]
	FUS		17.4		DTA	[1964DAV]
	FUS		17.8		AC	[1960SKL/STR, 1980AND/CON]
	FUS		17.99	395.5		[1984DOM/EVA, 1953GIN/FUR]
	FUS		18.00	395.2	AC	[1951FUR/MCC, 1980AND/CON]
	FUS		17.32	395.0		[1926AND/LYN]
	SUB		86.1 ± 0.6		UV/Vis	[2015HIK/WEE]
	SUB	(316–367)	88.9 ± 0.2	341	GS	[2015VER/ZAI]
	SUB	(316–367)	89.8 ± 0.4	298	GS	[2015VER/ZAI]
	SUB	(298–339)	89.3 ± 0.1	318	Static	[2015VER/ZAI]
	SUB	(298–339)	89.8 ± 0.3	298	Static	[2015VER/ZAI]
	SUB		89.9 ± 0.2	298	ME	[2014FON/GUS]
	SUB	(353–373)	89.8 ± 0.1	363	UV/Vis	[2013HIK/WEE]
	SUB	(303–343)	89.9		TGA	[2011FEL/RAM]
	SUB	(340–410)	90.9 ± 2.0		TG-TS	[2009SEL/RAG]
	SUB		93.3 ± 1.2	298	ME, QCM	[2008FRE/KEB]
	SUB	(299–317)	90.0 ± 0.5	307	ME	[2006RIB/MON]
	SUB	(299–317)	90.4 ± 0.5	298	ME	[2006RIB/MON]
	SUB		91.7 ± 3.4		ME	[2006HOS/NAG]
	SUB	(299–323)	89.7 ± 0.8	311	ME	[2002LI/SHI]
	SUB		88.5 ± 0.5	298	DSC	[2001ROJ/ORO]
	SUB		88.3 ± 0.5	298	C	[2001KIY/MIN]
	SUB	(323–394)	90.5 ± 0.3		GS	[1999ZIE/PER]
	SUB		89 ± 6		TGA	[1999PRI/BAS]
	SUB		87.5 ± 0.4			[1998PRI/HAW]
	SUB	(313–343)	86.7		TGA	[1997ELD]
	SUB	(307–314)	88.7 ± 0.9	311	ME	[1990RIB/MON]
	SUB		89.3 ± 0.9	298		[1990RIB/MON]
	SUB		87.5 ± 0.3	335	C	[1988TOR/BAR]
	SUB		89.2 ± 1.0	298		[1988TOR/BAR]
	SUB		91.0 ± 2.0		C	[1987ELS]
	SUB		95.1 ± 1.8	294		[1985KAI/HAD]
	SUB	(293–319)	90.8 ± 0.6	306	QR	[1985GLU/ARK]
	SUB	(368–428)	87.8		GS	[1985MAT/KUW2]
	SUB		89.5 ± 0.4		DSC	[1983HOL]
	SUB	(320–370)	89.1 ± 0.2		C	[1982MUR/SAK]
	SUB	(316–391)	89.5 ± .05	353	DM	[1982DEK/BLO]
	SUB	(293–313)	90.6 ± 2.0		ME	[1982COL/JIM]
	SUB		93.45 ± 1		GS	[1981BRO/MCE]
	SUB	(344–395)	85 ± 2	369	SG	[1980SAC/HIL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(281–323)	88.3 ± 2.9		LE	[1978NOW/SZC]
	SUB		88.5 ± 0.8		C	[1976MIR/LEB]
	SUB	(294–331)	92.5 ± 4.0		ME	[1975VAN/DEK]
	SUB	(293–318)	88.5 ± 1.6		TE	[1975DEK/VAN]
	SUB	(273–318)	92.9 ± 0.2	296	ME	[1974ARS]
	SUB	(293–311)	88.1 ± 0.2		TCM	[1973DEK/OON]
	SUB	(338–383)	89.0 ± 0.4		ME	[1973MAL/GIG]
	SUB	(338–383)	89.3 ± 0.4		C	[1973MAL/GIG]
	SUB	(290–315)	86.6 ± 1.3		ME, C	[1972WIE]
	SUB	(293–308)	90.0 ± 0.3		ME	[1972COL/MON]
	SUB		89.5 ± 0.2	298	C	[1972MOR, 1971BEE/LIN]
	SUB	(299–329)	89.1	314		[1971ASH]
	SUB	(290–315)	86.6 ± 1.7	303	ME	[1970WIE/WAU, 1999ZIE/PER]
	SUB	(324–392)	90.4 ± 0.8	367	HSA	[1970MEL/MER]
	SUB		89.7 ± 0.6	298	C	[1969CHA/STE]
	SUB	(348–378)	88.9 ± 0.5	363	GS	[1968MER]
	SUB	(291–307)	90.9	299	ME	[1965DAV/KYB]
	SUB	(243–387)	91.5 ± 0.5	298	GS	[1954DAV/JON, 1970COX/PIL, 1960JON]
	SUB		84.2 ± 0.8	318	TE	[1938WOL/WEG]
	SUB	(333–389)	85.8	383	T	[1934HIR]
	SUB	(377–394)	84.5 ± 0.5	364	I	[1927KLO/WOO]
	V	(401–416)	63.3 ± 0.6			[2003PEN/RIB]
	V	(353–393)	78.9	298	CGC	[1995CHI/HOS]
	V	(368–428)	67.8		GS	[1985MAT/KUW2]
	V	(405–523)	66.3	420	A	[1987STE/MAL]
	V		65.4	428	I	[1943CRA]
	V	(401–520)	67.7	416	MM, A	[1927KLO/WOO]
$C_7H_6O_2$	[90-02-8]	2-hydroxybenzaldehyde				
	FUS		13.3	278.7	DSC	[2008BER/MIN]
[Note: The authors noted in the paper that their melting point temperature differed significantly from the published literature values.]						
	V		53.3 ± 0.3	298	C	[2008BER/MIN]
	V		50.4 ± 1.3	298	C	[2007RIB/ARA]
	V	(383–470)	30.6	398	A	[1987STE/MAL]
	V		47.7			[1986BAL/GNA]
	V	(306–470)	49.6	321		[1947STU]
$C_7H_6O_2$	[100-83-4]	3-hydroxybenzaldehyde				
	FUS		24.1	376.0	DSC	[2012SHA/RAI]
	SUB	(312–330)	99.7 ± 0.6	321	ME	[2010RIB/GON]
	SUB	(312–330)	100.1 ± 0.6	298	ME	[2010RIB/GON]
	SUB	(303–328)	93.6		ME	[1974LIO/HOP]
$C_7H_6O_2$	[123-08-0]	4-hydroxybenzaldehyde				
	FUS (I)	(298–400)	22.2	391.1	DSC	[2013SIM/BER2]
	FUS		20.3	390.8	DSC	[2008BER/MIN]
	FUS		21.6	390.8	DSC	[2008TEM/ROU]
	SUB	(324–341)	101.8 ± 0.5	333	ME	[2010RIB/GON]
	SUB	(324–341)	102.5 ± 0.5	298	ME	[2010RIB/GON]
	SUB		99.7 ± 0.4	298	C	[2008BER/MIN]
	SUB	(303–336)	98.2 ± 1.3	298	ME	[1987STE/MAL, 1971PAR/ROC]
	SUB	(303–328)	94.4		ME	[1974LIO/HOP]
	SUB	(312–336)	91.2	324		[1960AIH]
	V	(394–583)	72.3	409	A	[1987STE/MAL, 1947STU]
$C_7H_6O_2$	[1864-94-4]	phenylformate				
	V	(287–305)	52.9 ± 0.6	298	BG	[1976ANT/CAR, 1975ANT/CAR]
$C_7H_6O_2$	[274-09-9]	1,3-benzodioxole				
	V		41.4			[1958CAS/FLE2]
$C_7H_6O_2$	[533-75-5]	2-hydroxy-2,4,6-cycloheptatrien-1-one (tropolone)				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(273–333)	84.1 ± 0.4	303	ME	[1971JAC/HUN]
	SUB		83.7 ± 0.8	298		[1951NIC, 1970COX/PIL]
$C_7H_6O_2$	[623-30-3]	3-(2-furyl)-2-propenal				
	SUB		76.1 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
$C_7H_6O_3$	[539-47-9]	2-furanacrylic acid				
	FUS		22.9	413.2	DTA	[2014SOB/VAN, 2015SOB/VAN]
	SUB	(348–378)	102.2 ± 4.8	360	ME	[2014SOB/VAN]
	SUB	(322–338)	101.7 ± 0.5	330	ME	[2009RIB/AMA2]
	SUB	(322–338)	103.3 ± 0.5	298	ME	[2009RIB/AMA2]
	SUB		103.0 ± 0.7	298	C	[2009RIB/AMA2]
$C_7H_6O_3$	[81311-95-7]	3-furanacrylic acid				
	SUB	(327–343)	105.0 ± 0.5	335	ME	[2009RIB/AMA2]
	SUB	(327–343)	106.8 ± 0.5	298	ME	[2009RIB/AMA2]
	SUB	(327–343)	104.9 ± 1.1	298	C	[2009RIB/AMA2]
$C_7H_6O_3$	[69-72-7]	2-hydroxybenzoic acid (salicylic acid)				
	FUS		25.27	431.4	DSC	[2013BOU/TEY]
	FUS		24.6	431.8	DSC	[2013LIM/JAN]
	FUS		12.8	433.5	DSC	[2010CAM/MIC]
[Note: The experimental value reported in [2010CAM/MIC] is not in agreement with other independently measured values.]						
	FUS		24.62	431.0		[2009SHA/TAN]
	FUS		27.1	434.1	DSC	[2009GOO/ROD]
	FUS		23.05	432.5	DSC	[2009PEN/ESC]
	FUS		23.52	436.5	DSC	[2009MEL/PIN]
	FUS		28.82	432.4	DSC	[2008MOG/SEP]
	FUS		24.45	431.1	DSC	[2008MOT/QUE]
	FUS	(298–435)	26.1	432.4	DSC	[2005PIN/DIO]
	FUS		24.6		DSC	[2003SHA/KAN]
	FUS		24.6	431.8		[1996DOM/HEA, 1993SAB/LE]
	SUB		94.4 ± 0.4	298	C	[2005PIN/DIO]
	SUB		95.1 ± 0.5	333	C	[1993SAB/LE]
	SUB		96.3 ± 0.5	298		[1993SAB/LE]
	SUB	(307–324)	95.7 ± 0.8	315	ME	[1980COL/JIM, 1981COL/JIM]
	SUB	(312–332)	94.9 ± 0.4	322	TE	[1977DEK/VAN]
	SUB	(312–332)	93.22 ± 0.8	322	ME	[1977DEK/VAN]
	SUB	(298–328)	99.2 ± 2	313	ME	[1974ARS]
	SUB	(368–408)	94.8 ± 0.4			[1973MAL/GIG]
	SUB	(368–408)	95.1 ± 0.4		GS	[1954DAV/JON, 1970COX/PIL, 1960JON]
	V	(445–504)	79.4	460	A	[1987STE/MAL]
$C_7H_6O_3$	[99-06-9]	3-hydroxybenzoic acid				
	FUS (I)		35.83	474.3	DSC	
	FUS (II)		32.68	467.5	DSC	[2013SVA/RAS]
	FUS	(298–480)	36.5	476.4	DSC	[2005PIN/DIO]
	FUS		26.2	475.1		[1996DOM/HEA, 1993SAB/LE]
	SUB		118.3 ± 1.1	298	C	[2005PIN/DIO]
	SUB		123.5 ± 0.7	363	C	[1993SAB/LE]
	SUB		125.0 ± 0.7	298		[1993SAB/LE]
$C_7H_6O_3$	[99-96-7]	4-hydroxybenzoic acid				
	FUS		30.3	492.5	DSC	[2012MAH/AND]
	FUS		32.5	489.4	DSC	[2010MON/SAN]
	FUS		30.85	489	DSC	[2006NOR/RAS2]
	FUS		31.4	487.2	DSC	[2002GRA/RAS]
	FUS		32.0	488	DSC	[1992HEA/SIN]
	FUS		30.9	488.1		[1979ARM/JAM]
	SUB	(365–387)	119.0 ± 0.4	316	ME	[2010MON/SAN]
	SUB	(365–387)	121.1 ± 0.4	298	ME	[2010MON/SAN]
	SUB		117.0 ± 0.5	298	C	[2005PIN/DIO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		112.4 ± 0.7	363	C	[1993SAB/LE]
	SUB		114.1 ± 0.7	298		[1993SAB/LE]
	SUB	(398–433)	116.3		GS	[1954DAV/JON, 1960JON]
$C_7H_6O_3$	[533-31-3]	5-hydroxy-1,3-benzodioxole (sesamol)				
	FUS		16.96	337.7	DSC	[2004MAT/MON]
	SUB	(293–309)	92.1 ± 0.6	301	ME	[2004MAT/MON]
	SUB	(293–309)	92.2 ± 0.6	298	ME	[2004MAT/MON]
$C_7H_6O_3S$	[4066-41-5]	5-acetyl-2-thiophenecarboxylic acid				
	SUB	(364–387)	119.6 ± 0.6	375.2	ME	[2008RIB/SAN5]
	SUB	(364–387)	123.5 ± 0.6	298	ME	[2008RIB/SAN5]
$C_7H_6O_4$	[303-38-8]	2,3-dihydroxybenzoic acid				
	FUS (triclinic)		29.69	481.3	DSC	[2010SAR/SAN]
	FUS (monoclinic)		21.63	481.7	DSC	[2010SAR/SAN]
	FUS		31.9	476.6	DSC	[2010MON/GON]
	SUB	(345–363)	109.1 ± 0.8	354	ME	[2010MON/GON]
	SUB	(345–363)	110.7 ± 0.8	298	ME	[2010MON/GON]
	SUB		116 ± 4		TGA	[1999PRI/BAS]
	SUB		119.8 ± 4.8	298	TGA	[1999PRI/BAS, 2015PRI]
$C_7H_6O_4$	[89-86-1]	2,4-dihydroxybenzoic acid				
	FUS		31.0	501.7	DSC	[2011VEC/BRU]
	SUB	(364–390)	122 ± 2	298	TE	[2011VEC/BRU]
	SUB		117 ± 7	298	TGA	[2011VEC/BRU]
	SUB	(376–392)	124.0 ± 0.8	384	ME	[2010MON/GON]
	SUB	(376–392)	126.4 ± 0.8	298	ME	[2010MON/GON]
	SUB		126 ± 6		TGA	[1999PRI/BAS]
	SUB		127.9 ± 6.2	298	TGA	[1999PRI/BAS, 2015PRI]
	V	(511–534)	79 ± 4	523	TGA	[2011VEC/BRU]
$C_7H_6O_4$	[490-79-9]	2,5-dihydroxybenzoic acid				
	FUS		20.8	476.2	DSC	[2010MON/GON]
	SUB	(372–389)	128.1 ± 1.4	380	ME	[2010MON/GON]
	SUB	(372–389)	130.4 ± 1.3	298	ME	[2010MON/GON]
	SUB	(362–379)	117.9 ± 1.4	370	ME	[2006CHE/OJA]
	SUB		109 ± 3	452	TGA	[1999PRI/BAS]
	SUB		114.4 ± 2.5	298	TGA	[1999PRI/BAS, 2015PRI]
$C_7H_6O_4$	[303-07-1]	2,6-dihydroxybenzoic acid				
	FUS		25.0	443.7	DSC	[2011VEC/BRU]
	SUB	(346–369)	111 ± 2	298	TE	[2011VEC/BRU]
	SUB		113 ± 5	298	TGA	[2011VEC/BRU]
	SUB	(347–365)	107.5 ± 1.0	356	ME	[2010MON/GON]
	SUB	(347–365)	109.1 ± 1.0	298	ME	[2010MON/GON]
	SUB		111 ± 7		TGA	[1999PRI/BAS]
	SUB		109.6 ± 2.6	298	TGA	[1999PRI/BAS, 2015PRI]
	V	(454–477)	82 ± 3	465	TGA	[2011VEC/BRU]
$C_7H_6O_4$	[99-50-3]	3,4-dihydroxybenzoic acid				
	FUS		33.5	474.8	DSC	[2013VEC]
	FUS		34.0	474.9	DSC	[2011VEC/BRU]
	FUS (triclinic)		30.91	474.7	DSC	[2010SAR/SAN]
	FUS		31.2	472.3	DSC	[2009QUE/MOT]
	SUB	(382–409)	139 ± 2	298	TE	[2011VEC/BRU]
	SUB		146 ± 7	298	TGA	[2011VEC/BRU]
	SUB	(387–403)	132.3 ± 1.2	395	ME	[2010MON/GON]
	SUB	(387–403)	135.1 ± 1.2	298	ME	[2010MON/GON]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		153 ± 9	450	TGA	[1999PRI/BAS]
	SUB		157.8 ± 10.3	298	TGA	[1999PRI/BAS] [2015PRI]
	V	(485–505)	105 ± 4	495	TGA	[2011VEC/BRU]
$C_7H_6O_4$	[99-10-5]	3,5-dihydroxybenzoic acid				
	FUS		39.4	511.7	DSC	[2010SAR/SAN]
	FUS		38.3	508.3	DSC	[2010MON/GON]
	SUB	(345–363)	139.8 ± 1.8	416	ME	[2010MON/GON]
	SUB	(345–363)	143.2 ± 1.8	298	ME	[2010MON/GON]
	SUB		135 ± 6		TGA	[1999PRI/BAS]
	SUB		144.4 ± 8.4	298	TGA	[1999PRI/BAS, 2015PRI]
$C_7H_6O_5$	[149-91-7]	3,4,5-trihydroxybenzoic acid				
	TRS		19.28	351.3		
	FUS		62.38	524.2	DSC	[2010BOG/GON]
	SUB	(391–421)	75.1	406		[1934HIR]
C_7H_7Br	[100-39-0]	benzylbromide				
	FUS		13.2	271.8		[1976ASH]
	V	(284–306)	53.3 ± 0.7	298	GS	[2002KRA/VAS]
	V		53.7	298	CGC	[2002KRA/VAS]
	V	(340–409)	48.1	355	I, A	[1976ASH, 1987STE/MAL]
	V		50.5 ± 0.5	298		[1976ASH]
	V	(305–472)	46.9	320	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
C_7H_7Br	[95-46-5]	2-bromotoluene				
	V	(281–313)	47.7 ± 0.2	297	GS	[2015VER/SAZ]
	V	(281–313)	47.7 ± 0.5	298	GS	[2015VER/SAZ]
	V	(322–455)	47.2	337		[1999DYK/SVO]
	V	(353–518)	45.3	368	A	[1987STE/MAL, 1970DYK/VAN, 1973DYK/REP]
	V	(297–455)	52.6	312		[1947STU]
	V	(273–348)	48.8	288		[1940STU/SAY]
C_7H_7Br	[591-17-3]	3-bromotoluene				
	V	(274–308)	48.8 ± 0.2	291	GS	[2015VER/SAZ]
	V	(274–308)	48.4 ± 0.5	298	GS	[2015VER/SAZ]
	V	(351–457)	47.7	366		[1999DYK/SVO]
	V	(287–457)	48.3	302	A	[1987STE/MAL, 1947STU]
	V	(273–348)	49.4	288		[1940STU/SAY]
C_7H_7Br	[106-38-7]	4-bromotoluene				
	FUS	(150–320)	15.13	301.2	AC	[1996VAN/ALV]
	FUS		15.3	299.7		[1911LOU/DUP]
	SUB	(275–301)	62.6 ± 0.3	288	GS	[2015VER/SAZ]
	SUB	(275–301)	62.4 ± 0.6	298	GS	[2015VER/SAZ]
	V	(302–335)	46.2 ± 0.3	318	GS	[2015VER/SAZ]
	V	(302–335)	47.3 ± 0.6	298	GS	[2015VER/SAZ]
	V	(320–458)	47.1	335		[1999DYK/SVO]
	V	(273–472)	55.3	288		[1999DYK/SVO]
	V	(358–523)	45.8	373	A	[1987STE/MAL, 1970DYK/VAN, 1973DYK/REP]
C_7H_7BrO	[578-57-4]	2-bromoanisole				
	V		61.8 ± 1.3	298	C	[2009RIB/FER3]
	V		52.3			[1986BAL/GNA]
C_7H_7BrO	[2398-37-0]	3-bromoanisole				
	V		58.0 ± 1.2	298	C	[2009RIB/FER3]
	V		50.2			[1986BAL/GNA]
C_7H_7BrO	[104-92-7]	4-bromoanisole				
	V		58.3 ± 1.2	298	C	[2009RIB/FER3]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		50.6			[1986BAL/GNA]
	V	(318–496)	48.9	333		[1947STU]
C_7H_7BrS	[19614-16-5]	2-bromothioanisole				
	V		56.5			[1986BAL/GNA]
C_7H_7BrS	[33733-73-2]	3-bromothioanisole				
	V		54.4			[1986BAL/GNA]
C_7H_7BrS	[104-95-0]	4-bromothioanisole				
	V		55.7			[1986BAL/GNA]
C_7H_7Cl	[100-44-7]	benzyl chloride				
	FUS		8.74	230	DSC	[1972AHM/EAD]
	V	(276–309)	50.1 ± 0.3	298	GS	[2002KRA/VAS]
	V	392	49.9	298	CGC	[2002KRA/VAS]
	V	(320–390)	48.6	335	A, I	[1987STE/MAL, 1976ASH]
	V		50.1 ± 0.5	298		[1976ASH, 1999DYK/SVO]
	V	(295–453)	48.6	310		[1987STE/MAL, 1947STU]
C_7H_7Cl	[95-49-8]	2-chlorotoluene				
	FUS		10.3	237	DSC	[1972AHM/EAD]
	V	(274–306)	46.4 ± 0.4	298	GS	[2014VER/EME]
	V	(370–432)	41.6	385		[1999DYK/SVO]
	V	(345–430)	45.3	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(345–430)	42.5	361		[1984BOU/FRI]
	V	(338–493)	42.8	353	A	[1987STE/MAL, 1973DYK/REP, 1970DYK/VAN]
	V	(278–432)	44.8	293		[1947STU]
	V	(273–348)	45.8	288	Static	[1940STU/SAY]
	V	(273–348)	45.5 ± 2.0	298	Static	[1940STU/SAY, 2014VER/EME]
	V		46.1 ± 0.1	298	C	[1926MAT, 2014VER/EME]
C_7H_7Cl	[108-41-8]	3-chlorotoluene				
	V	(274–309)	46.8 ± 0.4	298	GS	[2014VER/EME]
	V	(373–435)	41.9	388		[1999DYK/SVO]
	V	(277–436)	43.7	292	A	[1987STE/MAL, 1947STU]
	V	(273–348)	46.2	288	Static	[1940STU/SAY]
	V	(273–348)	46.1 ± 2.0	298	Static	[1940STU/SAY, 2014VER/EME]
C_7H_7Cl	[106-43-4]	4-chlorotoluene				
	FUS		13.6	280.6	DSC	[1999MIK/MAR]
	FUS	(150–310)	13.55	280.7	AC	[1996VAN/ALV]
	V	(274–309)	46.5 ± 0.5	298	GS	[2014VER/EME]
	V	(362–435)	41.8	375		[1999DYK/SVO]
	V	(304–436)	41.7	319	A	[1987STE/MAL]
	V	(340–430)	46.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(338–433)	43.5	353		[1984BOU/FRI]
	V	(279–435)	44.1	293		[1947STU]
	V	(277–348)	45.3	313	Static	[1940STU/SAY]
	V	(277–348)	46.0 ± 2.0	298	Static	[1940STU/SAY, 2014VER/EME]
	V		46.4 ± 0.1	298	C	[1926MAT, 2014VER/EME]
$C_7H_7ClN_2O$	[5814-05-1]	2-chlorobenzoic acid hydrazide				
	FUS		25.6	392.2	DSC	[2003CHI/ACR]
$C_7H_7ClN_2O$	[536-40-3]	4-chlorobenzoic acid hydrazide				
	FUS		32.9	437.2	DSC	[2003CHI/ACR]
$C_7H_7ClN_2O_2$	[23042-32-2]	*N*-methyl-*N*-(4-chlorophenyl)nitramine				
	FUS		19.5	323.4	DSC	[2002DAS/ZAL]
$C_7H_7ClN_2S$	[5344-82-1]	1-(*o*-chlorophenyl)thiourea				
	FUS		22.29	413.5	DSC	[1990DON/DRE]
C_7H_7ClO	[766-51-8]	2-chloroanisole				
	V		55.0 ± 0.8	298	C	[2008RIB/FER2]
	V		49.4			[1986BAL/GNA]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(388–460)	48.3	403	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO]
C_7H_7ClO	[2845-89-8]	3-chloroanisole				
	V		53.6 ± 0.8	298	C	[2008RIB/FER2]
	V		48.1			[1986BAL/GNA]
C_7H_7ClO	[623-12-1]	4-chloroanisole				
	V		54.8 ± 0.8	298	C	[2008RIB/FER2]
	V		47.7			[1986BAL/GNA]
C_7H_7ClO	[17733-22-1]	2-chlorothioanisole				
	V		53.6			[1986BAL/GNA]
C_7H_7ClO	[4867-37-2]	3-chlorothioanisole				
	V		51.9			[1986BAL/GNA]
C_7H_7ClO	[123-09-1]	4-chlorothioanisole				
	V		53.1			[1986BAL/GNA]
$C_7H_7Cl_3NO_3PS$	[5598-13-0]	*O*, *O*-dimethyl-*O*-3,5,6-trichloro-2-pyridyl phosphorothioate (chlorpyrifos methyl)				
	V	(373–403)	73.0	388	GC	[2007GOE/MCC]
C_7H_7F	[350-50-5]	benzyl fluoride				
	V	(278–318)	46.2 ± 0.3	298	GS	[2002KRA/VAS]
	V	392	46.5	298	CGC	[2002KRA/VAS]
	V	(278–318)	46.3 ± 0.3	298	GS	[1997SCH/VER]
	V	(297–410)	43.7	312	A	[1987STE/MAL]
	V	(298–356)	44.3	312	I	[1976ASH]
	V		44.5 ± 0.4	298		[1976ASH]
C_7H_7F	[95-52-3]	2-fluorotoluene				
	FUS		9.8	210.7	C	[1996DOM/HEA, 1990MEV/LIC]
	FUS		9.8	204	DSC	[1972AHM/EAD]
	V	(248–388)	42.0	263		[1999DYK/SVO]
	V	(452–531)	31.5	465		[1999DYK/SVO]
	V	(453–530)	32.3	468		[1984MOU]
	V	(308–348)	38.0	323	Static	[1974MOZ/KOL, 1984BOU/FRI]
	V	(295–388)	38.7	310	A	[1987STE/MAL, 1951POT/SAY]
	V	(248–387)	40.5	264		[1947STU]
C_7H_7F	[352-70-5]	3-fluorotoluene				
	FUS		8.3	184	C	[1996DOM/HEA, 1990MEV/LIC]
	FUS		6.31	185	DSC	[1972AHM/EAD]
	V	(250–390)	41.6	265		[1999DYK/SVO]
	V	(308–343)	39.0 ± 0.3	296	Static	[1974MOZ/KOL, 2014VER/EME]
	V	(293–390)	39.2	308	A	[1987STE/MAL, 1951POT/SAY]
	V	(250–389)	40.7	266		[1947STU]
C_7H_7F	[352-32-9]	4-fluorotoluene				
	FUS		9.35	216.5	C	[1996DOM/HEA, 1962SCO/MES]
	FUS		8.8	215.6	C	[1990MEV/LIC]
	FUS		7.65	213	DSC	[1972AHM/EAD]
	V	(340–430)	39.5	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(308–343)	37.8 ± 0.3	298	Static	[1974MOZ/KOL, 2014VER/EME]
	V	(341–428)	36.7	365	EB	[1962SCO/MES]
	V		36.7	347	C	[1962SCO/MES]
	V		35.5	367	C	[1962SCO/MES]
	V		34.1	389	C	[1962SCO/MES]
	V	(340–429)	37.0	355	A	[1987STE/MAL, 1951POT/SAY, 1999DYK/SVO]
C_7H_7FO	[321-28-8]	2-fluoroanisole				
	V		52.1 ± 1.1	298	C	[2009RIB/FER2]
C_7H_7FO	[456-49-5]	3-fluoroanisole				
	V		48.1 ± 1.1	298	C	[2009RIB/FER2]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_7FO	[459-60-9]	4-fluoroanisole				
	V		48.7 ± 1.2	298	C	[2009RIB/FER2]
$C_7H_7F_2N$	[23162-99-4]	*N*, *N*-difluorobenzylamine				
	V	(313–333)	77.8	323	A	[1987STE/MAL]
$C_7H_7F_9O$	[72372-80-6]	1,1,1,2,2,3,3,4,4-nonafluoro-4-propoxybutane				
	V	(288–369)	37.9	303	I	[2002MUR/YAM]
$C_7H_7F_9O$	[83310-97-8]	3-(perfluorobutyl)-1-propanol				
	V	(254–309)	75.8	256	GS	[2013SCH/BUC]
	V	(254–309)	69.6	273	GS	[2013SCH/BUC]
	V	(254–309)	66.9	282	GS	[2013SCH/BUC]
	V	(254–309)	64.1	293	GS	[2013SCH/BUC]
	V	(254–309)	60.7	309	GS	[2013SCH/BUC]
C_7H_7I	[620-05-3]	benzyl iodide				
	FUS		13.2	299.5		[1976ASH]
	V	(301–337)	57.4 ± 0.3	298	GS	[2002KRA/VAS]
	V	392	57.7	298	CGC	[2002KRA/VAS]
	V	(360–400)	46.8	375	I, A	[1987STE/MAL, 1976ASH]
	V		50.6 ± 1.4	298		[1976ASH]
C_7H_7I	[615-37-2]	2-iodotoluene				
	V	(283–325)	52.0 ± 0.1	304	GS	[2015VER/SAZ]
	V	(283–325)	52.3 ± 0.4	298	GS	[2015VER/SAZ]
	V	(310–484)	49.7	325	A	[1987STE/MAL, 1947STU]
C_7H_7I	[625-95-6]	3-iodotoluene				
	V	(279–318)	53.0 ± 0.4	297	GS	[2015VER/SAZ]
	V	(279–318)	52.9 ± 0.6	298	GS	[2015VER/SAZ]
C_7H_7I	[624-31-7]	4-iodotoluene				
	FUS	(150–320)	14.96	306.7	AC	[1996VAN/ALV]
	SUB	(280–303)	68.2 ± 0.7	292	GS	[2015VER/SAZ]
	SUB	(280–303)	68.0 ± 0.9	298	GS	[2015VER/SAZ]
	V	(308–333)	51.2 ± 0.7	321	GS	[2015VER/SAZ]
	V	(308–333)	52.5 ± 0.7	298	GS	[2015VER/SAZ]
C_7H_7IO	[529-28-2]	2-iodoanisole				
	V		65.3 ± 1.4	298	C	[2012FER/RIB]
C_7H_7IO	[766-85-8]	3-iodoanisole				
	V		62.5 ± 1.3	298	C	[2012FER/RIB]
C_7H_7IO	[696-62-8]	4-iodoanisole				
	SUB		82.4 ± 0.8	298	ME	[2012FER/RIB]
	SUB		82.6 ± 1.5	298	C	[2012FER/RIB]
	V	(401–520)	54.4	416	A	[1987STE/MAL, 1999DYK/SVO]
	V	(401–479)	53.1 ± 0.4	440	I	[1956BRE/UBB]
C_7H_7NO	[6264-93-3]	2-aminotropone				
	SUB	(273–333)	71.13 ± 0.4	303	ME	[1971JAC/HUN]
C_7H_7NO	[55-21-0]	benzamide				
	FUS		19.5	400.2	DTA	[2013KAN]
	FUS		22.80	400	DSC	[2012BUT/MAR]
	FUS		21.69	400	DSC	[2010BAI/VAN]
	FUS		23.18	401.3	DSC	[2010ALM/MON]
	FUS		19.15	402.1	DSC	[2009BRI]
	FUS		23.14		DSC	[2008SIN/DAS2]
	FUS		18.49	402.3		[1991ACR, 1984SHA/BAS]
	SUB	(324–346)	102.2 ± 0.4	335	ME	[2010ALM/MON]
	SUB	(324–346)	103.1 ± 0.4	298	ME	[2010ALM/MON]
	SUB	(325–342)	96.9	333.5		[1987STE/MAL, 1960AIH2]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(323–349)	101.7 ± 1	298	C	[1982TOR/SAB2]
	V	(380–438)	75.8 ± 1.2	409	Static	[2010ALM/MON]
	V	(380–438)	86.5 ± 0.1	298	Static	[2010ALM/MON]
[Note: VP measurements in [2010ALM/MON] include those for the subcooled liquid.]						
C_7H_7NO	[103-70-8]	formanilide				
	SUB	(298–318)	77.8	308	A	[1987STE/MAL, 1960AIH2]
C_7H_7NO	[1122-62-9]	2-acetylpyridine				
	V		60.5 ± 0.3	298	C	[2007FRE/OLI]
C_7H_7NO	[350-03-8]	3-acetylpyridine				
	V		66.1 ± 0.8	298	C	[2007FRE/OLI]
C_7H_7NO	[1122-54-9]	4-acetylpyridine				
	V		66.5 ± 0.9	298	C	[2007FRE/OLI]
$C_7H_7NO_2$	[622-42-4]	(nitromethyl)benzene				
	V	(363–413)	53.8	378	A	[1987STE/MAL]
$C_7H_7NO_2$	[88-72-2]	2-nitrotoluene				
	V	(283–313)	59.6 ± 1.6	298	GS	[2010WID/BRU2]
	V	(274–323)	59.0 ± 0.3	299	GS	[2000VER/HEI]
	V	(274–323)	59.1 ± 0.3	298	GS	[2000VER/HEI]
	V	(388–448)	52.0	403	EB	[1994AIM]
	V	(402–496)	51.0	417	A	[1987STE/MAL]
	V	(387–493)	52.2	402		[1938LEV/SHT, 1994AIM]
	V	(323–490)	48.1	406		[1926BER/MAY]
$C_7H_7NO_2$	[99-08-1]	3-nitrotoluene				
	V	(293–313)	56.6 ± 2.5	303	GS	[2010WID/BRU2]
	V	(397–452)	52.8	413	EB	[1994AIM]
	V	(353–505)	49.8	368	A	[1987STE/MAL]
	V	(323–500)	50.1	410		[1926BER/MAY]
$C_7H_7NO_2$	[99-99-0]	4-nitrotoluene				
	FUS		16.81	324.8	AC	[1991ACR, 1980AMB/GUN, 1980AND/CON]
	FUS		16.7	324.7	DSC	[1979RIC/SAV]
	FUS		13.31		C	[1963RAS/NIG]
	SUB	(303–321)	81.3		TGA	[2011FEL/RAM]
	SUB	(283–313)	74.8 ± 1.0	298	GS	[2010WID/BRU2]
	SUB		79.1 ± 2.5	298	ME	[1971LEN/VEL]
	SUB	(298–310)	79.1	298		[1970LEN/VEL]
	V	(407–457)	52.8	422	EB	[1994AIM]
	V	(423–512)	49.8	438	A	[1987STE/MAL]
	V	(417–512)	42.2	435	EB	[1980AMB/GUN]
	V	(387–493)	54.2	402		[1938LEV/SHT, 1994AIM]
	V	(353–505)	50.0	430		[1926BER/MAY]
$C_7H_7NO_2$	[118-92-3]	2-aminobenzoic acid (anthranilic acid)				
	FUS (I)		20.4	422.2		
	FUS (II)		20.5	421.8	DSC	[2012BAG/RED]
	FUS		22.86	420	DSC	[2010BAI/VAN]
	FUS (I)		21.6	419.3		
	FUS (II)		18.3	419.4		
	FUS (III)		20.1	419.3	DSC	[2010JIA/JAN]
	FUS		20.5	417.8		[1991ACR, 1974SAB/CHA, 1926AND/LYN]
	SUB		100 ± 1	338	TE, ME	[1979DEK/VOO]
	SUB		99.6 ± 0.5	378	C	[1974SAB/CHA]
	SUB		104.9 ± 1.0	298	C	[1974SAB/CHA]
	SUB		111.6 ± 1.7	298		[1972ARN/JON]
$C_7H_7NO_2$	[99-05-8]	3-aminobenzoic acid				
	FUS (I)		35.5	445.2		
	FUS (II)		26.7	451.2	DSC	[2010SVA/NOR]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. Compound Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		33.7	445.7	DSC	[2001ROT/GLA]
	FUS		21.84	452.9		[1991ACR, 1974SAB/CHA, 1926AND/LYN]
	SUB		122 ± 1	374.8	TE	[1979DEK/VOO]
	SUB	(367–389)	122.3 ± 3		C	[1974SAB/CHA]
	SUB		128.0 ± 3.2	298	C	[1974SAB/CHA, 1977NAB/SAB]
$C_7H_7NO_2$	[150-13-0]	4-aminobenzoic acid				
	FUS		25.4	460.4	DSC	[2016VOL/BLO]
	FUS		27.2	461.2	DSC	[2012MAH/AND]
	TRS		2.06	355.2		
	FUS		22.62	458.7	DSC	[2004GRA/RAS]
	FUS		24.5	459.2	DSC	[2001ROT/GLA]
	FUS		20.92	461.4		[1991ACR, 1974SAB/CHA, 1926AND/LYN]
	SUB	(347–392)	118.0 ± 1.0	298	GS	[2016VOL/BLO]
	SUB		112.3 ± 1	373	TE	[1979DEK/VOO]
	SUB	(367–389)	114 ± 3.5		C	[1974SAB/CHA]
	SUB		116 ± 3.7	298	C	[1974SAB/CHA, 1977NAB/SAB]
	SUB		U142			[1938WOL/WEG, 1960JON]
$C_7H_7NO_2$	[94-67-7]	2-hydroxybenzaldoxime				
	SUB (mp 330 K)	(423–513)	96.7 ± 9.4	468	DSC	[1984BUR/MOR]
	SUB		105.2 ± 10	298		[1984BUR/MOR]
	SUB (anti)		U51 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U65.3 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_7NO_2$	[22241-18-5]	3-hydroxybenzaldoxime				
	SUB (anti)		U52.7 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U57.3 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_7NO_2$	[699-06-9]	4-hydroxybenzaldoxime				
	SUB (anti)		U54.4 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_7NO_2$	[65-45-2]	2-hydroxybenzamide (salicylamide)				
	FUS		25.59	413.2	DSC	[2013SIN/PAN, 2015SIN/RAI]
	FUS		27.4	438.0	DSC	[2013MAN/VOR]
[Note: Melting point temperature differs significantly from that given by other research groups, see below.]						
	FUS		27.1	414.9	DSC	[2008BER/MIN]
	FUS		29.0	411.9	DSC	[2006NOR/RAS]
	SUB	(320–345)	106.1 ± 1.0	333	GS	[2013MAN/VOR]
	SUB	(320–345)	106.6 ± 1.0	298	GS	[2013MAN/VOR]
	SUB		101.9 ± 0.4	298	C	[2008BER/MIN]
	SUB		99.3 ± 1.3	298	C	[2007RIB/ARA]
$C_7H_7NO_2$	[618-49-5]	3-hydroxybenzamide				
	FUS		28.8	440.7	DSC	[2013MAN/VOR]
	SUB	(368–396)	119.0 ± 1.0	382	GS	[2013MAN/VOR]
	SUB	(368–396)	122.0 ± 1.0	298	GS	[2013MAN/VOR]
$C_7H_7NO_2$	[619-57-8]	4-hydroxybenzamide				
	FUS		25.4	433.8	DSC	[2008BER/MIN]
	FUS		25.2	433.2	DSC	[2007PER/HAN, 2013MAN/VOR]
	SUB		129.7 ± 1.9	298	C	[2008BER/MIN]
	SUB	(360–420)	115.6 ± 0.6	390	GS	[2007PER/HAN, 2013MAN/VOR]
	SUB	(360–420)	117.8 ± 0.6	298	GS	[2007PER/HAN, 2013MAN/VOR]
$C_7H_7NO_2$	[622-46-8]	phenyl carbamate				
	FUS (I)		15.42	414.9	DSC	
	FUS (II)		22.12	417.6	DSC	[2008WIS/BER]
$C_7H_7NO_2$	[2459-07-6]	methyl picolinate				
	FUS		16.8	289.2	DSC	[2007RIB/FRE]
	SUB	(278–318)	81.8 ± 0.1	298	Static	[2007RIB/FRE]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		67.0 ± 1.8	298	C	[2007RIB/FRE]
	V	(273–340)	64.1 ± 0.1	298	Static	[2007RIB/FRE]
$C_7H_7NO_2$	[93-60-7]	methyl nicotinate				
	FUS		19.3	312.6	DSC	[2007RIB/FRE]
	SUB	(273–310)	80.1 ± 0.1	298	Static	[2007RIB/FRE]
	V	(298–324)	61.2 ± 0.2	298	Static	[2007RIB/FRE]
$C_7H_7NO_2$	[2459-09-8]	methyl isonicotinate				
	FUS		14.6	283.4	DSSC	[2007RIB/FRE]
	SUB		75.1 ± 0.3	298	V + F	[2007RIB/FRE]
	V		65.4 ± 1.4	298	C	[2007RIB/FRE]
	V	(298–320)	59.4 ± 0.1	298	Static	[2007RIB/FRE]
$C_7H_7NO_3$	[5399-68-8]	2,4-dihydroxybenzaldoxime				
	SUB (anti)		U76.2 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U93.7 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_7NO_3$	[91-23-6]	2-nitroanisole				
	V	(424–545)	58.6	439	A	[1987STE/MAL]
$C_7H_7NO_3$	[100-17-4]	4-nitroanisole				
	SUB	(303–321)	91.3		TGA	[2011FEL/RAM]
$C_7H_7NO_3$	[2581-34-2]	4-nitro-5-methylphenol				
	FUS		27.4	401		[1991ACR, 1975BUC/JOD]
$C_7H_7NO_3$	[700-38-9]	2-nitro-5-methylphenol				
	FUS		20.79	302.8		[1991ACR, 1975BUC/DOM]
	V	(331–358)	62.8 ± 0.5	298	GS	[2007HEI/KAP]
$C_7H_7NO_3$	[2581-34-2]	3-methyl-4-nitrophenol				
	V		85.8	298	B	[2007HEI/KAP]
$C_7H_7NO_3$	[554-84-7]	2-methyl-5-nitrophenol				
	V		85.9	298	B	[2007HEI/KAP]
$C_7H_7NO_3$	[65-49-6]	4-aminosalicylic acid				
	FUS		47.9	406.2	DSC	[2001ROT/GLA]
$C_7H_7NO_3$	[89-57-6]	5-aminosalicylic acid				
	FUS		67.2	543.2	DSC	[2001ROT/GLA]
	SUB	(483–543)	135		DSC	[2001ROT/GLA]
$C_7H_7NO_3$	[619-73-8]	4-nitrobenzyl alcohol				
	FUS	(78–396)	20.97	336.4	AC	[2009MEN/TAN]
$C_7H_7NO_4$	[3251-56-7]	2-methoxy-4-nitrophenol				
	FUS		21.69	374.4	DSC	[2004MIR/MOR]
	SUB		99.4 ± 2.0	298	C	[2004MIR/MOR]
$C_7H_7NO_4$	[636-93-1]	2-methoxy-5-nitrophenol				
	FUS		21.43	377.6	DSC	[2004MIR/MOR]
	SUB		106.2 ± 2.2	298	C	[2004MIR/MOR]
$C_7H_7NO_4$	[1568-70-3]	4-methoxy-2-nitrophenol				
	FUS		22.42	352.3	DSC	[2004MIR/MOR]
	SUB		90.8 ± 1.7	298	C	[2004MIR/MOR]
C_7H_7NS	[2227-79-4]	thiobenzamide				
	SUB		103.4 ± 2.2	298	C	[1989RIB/SOU]
	SUB		97.2 ± 0.6	298	C	[1982SAB/TOR]
$C_7H_7N_3$	[622-79-7]	(azidomethyl)benzene				
	V	(333–363)	48.0	348	A	[1987STE/MAL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_7N_3$	[19335-11-6]	5-aminoindazole				
	SUB	(358–380)	114.8 ± 0.3	369	ME	[2010RIB/CAB2]
	SUB	(358–380)	118.4 ± 0.7	298	ME	[2010RIB/CAB2]
$C_7H_7N_3$	[6967-12-0]	6-aminoindazole				
	SUB	(366–388)	118.0 ± 0.6	377	ME	[2010RIB/CAB2]
	SUB	(366–388)	122.0 ± 0.6	298	ME	[2010RIB/CAB2]
$C_7H_7N_3O_2$	[135742-53-9]	*N*-acetyl-pyrazinamide				
	FUS		23.6	366.7	DSC	[1991LIU/GUO]
[Note: Authors of [1991LIU/GUO] give the name and molecular formula for *N*-acetyl-pyrazineamide; however, they draw the structure for *N*-(1-oxopropyl)pyrazinecarboxamide.]						
$C_7H_7N_3O_4$	[16698-03-6]	*N*-methyl-*N*-(4-nitrophenyl)nitramine				
	FUS		25.0	416.9	DSC	[2002DAS/ZAL]
$C_7H_7N_3O_4$	[55739-03-2]	*N*-methyl-*N*-(3-nitrophenyl)nitramine				
	FUS		25.3	350.5	DSC	[2002DAS/ZAL]
C_7H_8	[121-46-0]	bicyclo[2.2.1]hepta-2,5-diene (norbornadiene)				
	TRS	(8–350)	8.2	202		
	FUS	(8–350)	1.91	255.6	AC	[2004BYK/SMI]
	TRS		8.93	202		
	FUS		Fusion values not reported			[1974CLA/MCK]
	V		34.8 ± 0.1	298	C	[1993AN/XIE]
	V	(300–364)	33.6	315	A	[1987STE/MAL]
	V		34.7 ± 0.1	298	C	[1985KUS]
	V		33.8 ± 0.9	298		[1978STE2]
	V	(300–353)	32.9 ± 0.8	298	BG	[1973HAL/SMI]
C_7H_8	[544-25-2]	1,3,5-cycloheptatriene				
	TRS		2.35	154		
	FUS		1.16	198		[1996DOM/HEA, 1956FIN/SCO]
	V	(273–338)	40.8	288	A	[1987STE/MAL, 1973DYK/REP]
	V	(273–416)	39.4	288	A, EB	[1987STE/MAL, 1956FIN/SCO]
	V		38.7 ± 0.2	298		[1956FIN/SCO]
C_7H_8	[278-06-8]	tetracyclo[3.2.0.0^{2,7}.0^{4,6}]heptane(quadricyclane)				
	TRS		7.2	180		
	FUS		1.09	228	DSC	[1996DOM/HEA, 1992KAW/GIL]
	V		37.9 ± 0.1	298	C	[1993AN/XIE]
	V		37.9 ± 0.1	298	C	[1985KUS]
	V		37.0 ± 0.8	298		[1978STE2]
	V	(302–372)	37.3 ± 0.8	317	BG	[1987STE/MAL, 1973HAL/SMI]
C_7H_8	[108-88-3]	toluene				
	FUS		6.55	178	C	[1942ZIE/AND]
	FUS		6.61	178		[1996DOM/HEA, 1930SOU/AND, 1929KEL]
	SUB		43.1	298	B	[1970LEN/VEL]
	V	(331–496)	35.7	346		[1993LEE/HOL]
	V	(210–279)	40.6	264	A	[1987STE/MAL]
	V	(383–445)	34.4	398	A	[1987STE/MAL]
	V	(440–531)	33.2	455	A	[1987STE/MAL]
	V	(530–592)	33.3	545	A	[1987STE/MAL]
	V	(273–295)	38.9	284	A	[1987STE/MAL]
	V		33.5 ± 0.1	380	C	[1985NAT/VIS]
	V		32.1 ± 0.1	403	C	[1985NAT/VIS]
	V		29.4 ± 0.1	441	C	[1985NAT/VIS]
	V		27.1 ± 0.1	470	C	[1985NAT/VIS]
	V		24.0 ± 0.1	505	C	[1985NAT/VIS]
	V		35.4	333		[1984EUB/CED]
	V		33.4	373		[1984EUB/CED]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		31.4	413		[1984EUB/CED]
	V		28.4	453		[1984EUB/CED]
	V		24.0	493		[1984EUB/CED]
	V	(343–383)	35.4	360		[1975RIV]
	V		38.0	298		[1971WIL/ZWO]
	V	(303–343)	37.3	318		[1968GAW/SWI2]
	V	(288–348)	36.9	303		[1967VAN/SOC]
	V	(210–293)	37.8	278		[1956MIL]
	V	(308–386)	37.0	323		[1987STE/MAL, 1949FOR/NOR]
	V		38.0	298	C	[1947OSB/GIN]
	V	(286–362)	37.8	301		[1946THO]
	V	(308–384)	37.0	323	MM	[1945WIL/TAY]
	V	(273–323)	38.8	288		[1943PIT/SCO]
	V	(273–323)	38.1 ± 0.2	298		[1943PIT/SCO]
$C_7H_8ClN_3O_4S_2$	[58-93-5]	6-chloro-3,4-dihydro-2*H*-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide (hydrochlorthiazide)				
	FUS		37.6	539.4	DSC	[2010MUR/PIK2]
	FUS		33.6	540.8	DSC	[2006WAS/HOL]
	FUS		29.2	546	DSC	[2006ACE/AGA]
	FUS		30.96	547.2		[2000HAN/PAR]
C_7H_8FN	[452-80-2]	2-fluoro-4-methylaniline				
	V		56.6 ± 0.6	298	C	[2007RIB/FER2]
C_7H_8FN	[452-84-6]	2-fluoro-5-methylaniline				
	V		56.9 ± 0.5	298	C	[2007RIB/FER2]
C_7H_8FN	[443-86-7]	3-fluoro-2-methylaniline				
	V		57.8 ± 0.6	298	C	[2007RIB/FER2]
C_7H_8FN	[452-71-1]	4-fluoro-2-methylaniline				
	V		59.8 ± 0.8	298	C	[2007RIB/FER2]
$C_7H_8N_2$	[33496-46-7]	1-amino-7-imino-1,3,5-cycloheptatriene				
	SUB	(273–333)	49.4 ± 0.4	303	ME	[1971JAC/HUN]
$C_7H_8N_2$	[56341-36-7]	1,5-dimethyl-2-pyrrolecarbonitrile				
	SUB		78.3 ± 1.6	298	C	[2012SAN/RIB]
$C_7H_8N_2O$	[64-10-8]	monophenylurea				
	FUS		23.8		DSC	[1995STR/ARG]
	FUS		23.68	420.6	DSC	[1991ACR, 1987FER/DEL]
	SUB	(392–412)	136 ± 6	406	TE	[1987FER/DEL]
$C_7H_8N_2O$	[3398-07-0]	2-aminobenzaldoxime				
	SUB (anti)		U33.9 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U63.6 ± 1.7		MS	[1983MAJ/AZZ]
$C_7H_8N_2O$	[88-68-6]	2-aminobenzamide				
	FUS		20.9	384.4	DSC	[2013ALM/MON2]
	SUB	(335–357)	105.7 ± 0.3	346	ME	[2013ALM/MON2]
	SUB	(335–357)	106.8 ± 0.2	298	ME	[2013ALM/MON2]
$C_7H_8N_2O$	[3544-24-9]	3-aminobenzamide				
	TRS		3.3	352.4		
	FUS		20.3	387.5	DSC	[2013ALM/MON2]
	SUB	(358–380)	123.4 ± 0.3	369	ME	[2013ALM/MON2]
	SUB	(358–380)	125.3 ± 0.3	298	ME	[2013ALM/MON2]
$C_7H_8N_2O$	[2835-68-9]	4-aminobenzamide				
	FUS		30.4	455.5	DSC	[2016VOL/BLO]
	FUS		30.0	457.6	DSC	[2013ALM/MON2]
	SUB	(373–403)	131.2 ± 1.2	298	GS	[2016VOL/BLO]
	SUB	(389–411)	128.5 ± 0.4	400	ME	[2013ALM/MON2]
	SUB	(389–411)	131.0 ± 0.4	298	ME	[2013ALM/MON2]
$C_7H_8N_2O$	[5231-96-9]	(2-pyridyl)acetamide				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		16.0	343	DSC	[1979GON/CHA]
	SUB		103.8	298	B, E	[1979GON/CHA]
	V		37.7	520	DSC	[1979GON/CHA]
$C_7H_8N_2O$	[613-94-5]	benzoic acid hydrazide				
	FUS		25.7	388.2	DSC	[2003CHI/ACR]
$C_7H_8N_2O$	[114-33-0]	*N*-methylnicotinamide				
	FUS		22.0	379.1	DSC	[2015ALM/OLI]
	SUB	(329–349)	106.2 ± 0.4	339	ME	[2015ALM/OLI]
	SUB	(329–349)	107.4 ± 0.4	298	ME	[2015ALM/OLI]
	SUB	(347–377)	105.3 ± 0.2	362	DM	[2015ALM/OLI]
	SUB	(347–377)	107.1 ± 0.2	298	DM	[2015ALM/OLI]
	V	(375–426)	80.5 ± 0.1	401	DM	[2015ALM/OLI]
	V	(375–426)	88.2 ± 0.7	298	DM	[2015ALM/OLI]
$C_7H_8N_2O_2$	[3569-99-1]	*N*-(hydroxymethyl)-3-pyridinecarboxamide				
	FUS		32.9	426.2	DSC	[2013AGA/MOS]
$C_7H_8N_4$	[13753-57-6]	4,4′-dipyrazolylmethane				
	FUS		27.92	472	DSC	[2009KEN/FLO]
$C_7H_8N_4O$	[31010-51-2]	9-ethylhypoxanthine				
	SUB		108.8 ± 13		HSA	[1978NOW/SZC]
	SUB		U83.7		HSA	[1965CLA/PES]
$C_7H_8N_4O$	[20535-82-4]	1,9-dimethylhypoxanthine				
	SUB		75.3 ± 13		HSA	[1978NOW/SZC]
$C_7H_8N_4O_2$	[58-55-9]	1,3-dimethylxanthine (theophylline)				
	FUS		30.23	544.5	DSC	[2014POB/DOM]
	FUS		29.61	545	DSC	[2010BAI/VAN]
	FUS (form I)		29.6	547.2	DSC	[2010SET/KHA]
	FUS (form II, orthorhombic)		30.8	548.3	DSC	[2010SET/KHA]
	FUS (form IV)		31.9	547.3	DSC	[2010SET/KHA]
	FUS (form I)		28.02	547.9	DSC	[2010SZT/LEG, 2009SZT]
	FUS (form II)		30.1	543.9	DSC	[2010SZT/LEG, 2009SZT]
	FUS		19.0	546.8	DSC	[2009GOO/ROD]
	FUS		28.2	544		[1989GON/KRA]
	FUS		28.2	542.3		[1989SUZ/SHI]
	FUS		30.9	544.4	DSC	[1984BRU/REI]
	FUS		31.2	543.7	DSC	[1983FOK/VAN]
	SUB (form I)	(413–453)	132.0 ± 0.3	433	T	[1999GRI/SZE]
	SUB (form I)	(413–453)	142	298	T	[1999GRI/SZE]
	SUB (form II)	(413–453)	134.2 ± 0.3	433	T	[1999GRI/SZE]
	SUB (form II)	(413–453)	144	298	T	[1999GRI/SZE]
	SUB		126	421	ME, TE	[1983FOK/VAN]
	SUB		135	298		[1983FOK/VAN, 1999GRI/SZE]
C_7H_8O	[100-66-3]	anisole				
	FUS		11.66	237		[1994LEE/LIE]
	FUS		12.89	236		[1996DOM/HEA, 1987GOA/BOE]
	FUS		17.03	U293.2		[1996DOM/HEA, 1889EYK]
	V		46.4 ± 0.3	298	C	[2014SIM/AGA]
	V	(278–312)	46.6 ± 0.2	298	GS	[2005VAS/VER]
	V	(363–463)	44.3	298	GC	[2005HOS/GRY]
	V	(353–393)	45.3	298	CGC	[1995CHI/HOS]
	V	(382–429)	41.8	397		[1993REI/SAN]
	V		41.0			[1986BAL/GNA]
	V	(382–437)	41.9	397	A	[1987STE/MAL, 1976AMB/ELL]
	V	(382–437)	46.9	298		[1976AMB/ELL]
	V	(282–437)	39.0	426		[1976AMB/ELL]
	V		46.8 ± 0.2	298	C	[1975FEN/HAR]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(363–383)	38.2 ± 0.4	298		[1972LEB/KAT2, 2005VAS/VER]
	V		42.9 ± 0.1	367	C	[1967HAL/LEE]
	V		42.0 ± 0.1	382	C	[1967HAL/LEE]
	V		40.5 ± 0.1	402	C	[1967HAL/LEE]
	V		38.9 ± 0.1	427	C	[1967HAL/LEE]
	V		39.4	298		[1957MCC/DOU, 2005VAS/VER]
	V	(382–437)	41.9	397		[1955VON/GEB, 1965COL/COU]
C_7H_8O	[100-51-6]	benzyl alcohol				
	FUS		8.79	257.6		[1991ACR, 1983WEA]
	V	(282–323)	65.5 ± 0.4	298	GS	[2005VAS/VER]
	V	(283–321)	65.9 ± 0.3	298	GS	[2004VER/VAS]
	V	(277–381)	64.8 ± 0.6	298	GS	[1999VER4]
	V	(323–373)	69.5	298	CGC	[1995CHI/HOS]
	V		60.5			[1995PAP/PIM]
	V	(404–507)	62.5 ± 0.3	298	EB	[1990AMB/GHI, 2005VAS/VER]
	V	(303–333)	66.2	318	GS	[1982GRA/FOS]
	V	(385–573)	54.6	400	A	[1987STE/MAL, 1973DYK/REP]
	V	(293–313)	61.5	303	A, ME	[1987STE/MAL, 1957SER/VOI, 1973DYK/REP]
	V	(396–478)	62.1 ± 0.3	298	EB	[1949DRE/SHR, 1949DRE/MAR, 2005VAS/VER]
	V	(312–348)	63.0 ± 2.2	298	EB	[1937GAR/BRE, 2005VAS/VER]
	V		60.3 ± 0.4	298	EB	[1926MAT, 2005VAS/VER]
C_7H_8O	[95-48-7]	2-hydroxytoluene				
	FUS		14.8	305.4	DSC	[2007RIC/BER]
	FUS		15.9	304.1	DSC	[1998JAM/PAL]
	FUS		15.82	304.2	AC	[1996DOM/HEA, 1967AND/COU]
	FUS		14.8	304.1	C	[1990MEV/LIC]
	SUB		73.7 ± 0.5	298	C	[2007RIC/BER]
	SUB	(273–303)	74.8	288	A	[1987STE/MAL]
	SUB	(273–303)	76.0 ± 0.8	288		[1960AND/BID, 1970COX/PIL]
	V	(304–409)	58.5	319	A	[1987STE/MAL]
	V	(399–470)	50.1	414	A	[1987STE/MAL]
	V	(463–526)	46.2	478	A	[1987STE/MAL]
	V	(517–630)	44.0	532	A	[1987STE/MAL]
	V		50.2			[1986BAL/GNA]
	V	(383–473)	51.3	398	GS, EB	[1987STE/MAL, 1960AND/BID, 1958BID/MAR, 1973DYK/REP]
	V	(415–462)	48.2	438		[1947GOL/MAR]
C_7H_8O	[108-39-4]	3-hydroxytoluene				
	FUS		8.9	282.3	DSC	[2007RIC/BER]
	FUS		10.67	285.3	DSC	[1998JAM/PAL]
	FUS		10.71	285.4	AC	[1996DOM/HEA, 1967AND/COU]
	FUS		9.1	280.8	C	[1990MEV/LIC]
	SUB	(273–285)	56.1	279		[1987STE/MAL]
	SUB	(284–313)	61.7 ± 1.0		GS	[1960AND/BID, 1958BID/MAR]
	V		65.0 ± 0.7	298	C	[2007RIC/BER]
	V	(393–433)	62.5	298	CGC	[1995CHI/HOS]
	V	(284–313)	61.7	298	A	[1987STE/MAL]
	V	(285–416)	63.1	300	A	[1987STE/MAL]
	V	(410–477)	52.7	425	A	[1987STE/MAL]
	V	(471–531)	47.6	486	A	[1987STE/MAL]
	V	(523–633)	43.8	538	A	[1987STE/MAL]
	V	(383–473)	55.0	398	GS, EB	[1987STE/MAL, 1960AND/BID, 1958BID/MAR]
	V	(388–429)	60.6	409	GS	[1980NAS/HWA, 1973DYK/REP]
	V		61.7	298		[1958BID/MAR]
	V	(359–473)	58.8	374		[1955VON/GEB, 1984BOU/FRI]
	V	(422–474)	50.7	448		[1947GOL/MAR]
C_7H_8O	[106-44-5]	4-hydroxytoluene				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		12.6	308.8	DSC	[2007RIC/BER]
	FUS		8.58	307.6	DSC	[1998JAM/PAL]
	FUS		12.72	307.9	AC	[1996DOM/HEA, 1967AND/COU]
	FUS		11.8	307.4	C	[1990MEV/LIC]
	FUS		12.25	309		[1996DOM/HEA, 1889EYK]
	SUB		73.1 ± 0.6	298	C	[2007RIC/BER]
	SUB	(273–307)	73.9 ± 1.5	290		[1960AND/BID, 1970COX/PIL, 1958BID/MAR]
	V	(308–393)	62.0	323	A	[1987STE/MAL]
	V	(385–477)	55.4	400	A	[1987STE/MAL]
	V	(463–533)	49.2	478	A	[1987STE/MAL]
	V	(523–635)	46.0	538	A	[1987STE/MAL]
	V		54.0			[1986BAL/GNA]
	V	(383–473)	55.6	398	A, GS, EB	[1987STE/MAL, 1960AND/BID, 1973DYK/REP, 1958BID/MAR]
	V	(419–474)	51.3	446		[1947GOL/MAR]
C_7H_8OS	[106-53-6]	4-methoxybenzenethiol				
	V		52.3			[1986BAL/GNA]
C_7H_8OS	[13679-73-7]	2-acetyl-4-methylthiophene				
	V		63.0 ± 2.6	298	C	[2008RIB/SAN4]
C_7H_8OS	[13679-72-6]	2-acetyl-3-methylthiophene				
	V		57.1 ± 2.4	298	C	[2008RIB/SAN4]
C_7H_8OS	[13679-74-8]	2-acetyl-5-methylthiophene				
	V		62.0 ± 2.6	298	C	[2008RIB/SAN4]
C_7H_8OS	[36880-33-8]	5-ethyl-2-thiophenecarboxaldehyde				
	V		62.2 ± 1.3	298	C	[2008RIB/SAN2]
$C_7H_8O_2$	[488-17-5]	3-methyl-1,2-dihydroxybenzene				
	SUB		93.2 ± 1.0	298	C	[1984CAR]
$C_7H_8O_2$	[496-73-1]	2,4-dihydroxytoluene				
	SUB	(317–333)	106.8 ± 0.9	325	ME	[2009RIB/FER4]
	SUB	(317–333)	107.3 ± 3.0	298	ME	[2009RIB/FER4]
	V	(391–459)	72.2	406	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_7H_8O_2$	[608-25-3]	2,6-dihydroxytoluene				
	SUB	(309–329)	98.8 ± 0.5	319	ME	[2009RIB/FER4]
	SUB	(309–329)	99.2 ± 2.3	298	ME	[2009RIB/FER4]
	V	(398–434)	66.9	413	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_7H_8O_2$	[452-86-8]	3,4-dihydroxytoluene				
	SUB		94.9 ± 1.0	298	C	[1984CAR]
	V	(387–415)	90.0	401	A	[1987STE/MAL]
$C_7H_8O_2$	[504-15-4]	3,5-dihydroxytoluene				
	SUB	(322–338)	102.3 ± 0.7	330	ME	[2009RIB/FER4]
	SUB	(322–338)	102.9 ± 3.5	298	ME	[2009RIB/FER4]
	V	(402–468)	76.6	417	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_7H_8O_2$	[95-71-6]	2-methyl-1,4-dihydroxybenzene (2-methylhydroquinone)				
	FUS		27.6	404.2	DSC	[1999VER7]
	SUB	(325–341)	107.8 ± 1.1	333	ME	[2009RIB/FER4]
	SUB	(325–341)	108.4 ± 3.9	298	ME	[2009RIB/FER4]
	SUB	(333–368)	97.2 ± 1.4	351	GS	[1999VER7]
	SUB	(333–368)	100.4 ± 1.4	298	GS	[1999VER7]
$C_7H_8O_2$	[90-05-1]	2-methoxyphenol				
	FUS		12.0	301.2	DSC	[2003LEE/CHO]
	V	(286–341)	61.4 ± 0.3	298	GS	[2010VAR/ABA]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(373–463)	52.7	388	EB	[2005LEE/SU]
	V	(373–463)	59.2 ± 0.4	298	EB	[2005LEE/SU, 2010VAR/ABA]
	V		62.6 ± 0.5	298	C	[2003MAT/MIR]
	V	(378–479)	52.7	393	A	[1987STE/MAL, 1973DYK/REP]
	V	(355–478)	52.7	370	EB	[1955VON/GEB]
	V	(355–478)	58.9 ± 0.3	298	EB	[1955VON/GEB, 2010VAR/ABA]
$C_7H_8O_2$	[150-19-6]	3-methoxyphenol				
	V	(303–354)	74.4 ± 0.2	298	GS	[2010VAR/ABA]
	V		75.9 ± 1.2	298	C	[2003MAT/MIR]
	V	(413–518)	64.8	428	A	[1987STE/MAL, 1973DYK/REP]
	V	(413–518)	73.2	298	A	[1987STE/MAL, 1973DYK/REP, 2010VAR/ABA]
$C_7H_8O_2$	[150-76-5]	4-methoxyphenol				
	FUS		18.2	328.3	DSC	[2010VAR/ABA]
	FUS		18.3	328.4	DSC	[1997LEE/CHA]
	SUB	(289–327)	89.8 ± 0.3	298	GS	[2010VAR/ABA]
	SUB		94.4 ± 1.2	298	C	[2003MAT/MIR]
	SUB	(278–300)	88.7	289	A	[1987STE/MAL, 1960AIH]
	SUB	(278–300)	88.4	298	A	[1987STE/MAL, 1960AIH, 2010VAR/ABA]
	V	(330–357)	73.7 ± 0.7	298	GS	[2010VAR/ABA]
	V		58.6			[1986BAL/GNA]
	V	(418–518)	61.4	433	A	[1987STE/MAL, 1973DYK/REP]
	V	(418–518)	72.1	298	A	[1987STE/MAL, 1973DYK/REP, 2010VAR/ABA]
$C_7H_8O_2$	[90-01-7]	2-hydroxybenzyl alcohol				
	FUS		21.5	358.3	DSC	[2008PIN/DIO]
	SUB	(304–320)	98.8 ± 0.8	312	ME	[2010RIB/FER5]
	SUB	(304–320)	99.5 ± 1.5	298	ME	[2010RIB/FER5]
$C_7H_8O_2$	[620-24-6]	3-hydroxybenzyl alcohol				
	SUB	(324–340)	114.3 ± 0.6	332	ME	[2010RIB/FER5]
	SUB	(324–340)	116.0 ± 3.7	298	ME	[2010RIB/FER5]
$C_7H_8O_2$	[623-05-2]	4-hydroxybenzyl alcohol				
	SUB	(333–349)	127.1 ± 1.2	341	ME	[2010RIB/FER5]
	SUB	(333–349)	129.3 ± 4.7	298	ME	[2010RIB/FER5]
$C_7H_8O_2$	[63233-31-8]	2,3-dimethyl-2*H*-pyran-2-one				
	V	(352–518)	64.9	367	A	[1987STE/MAL, 1947STU]
$C_7H_8O_2$	[1004-36-0]	2,6-dimethyl-4-pyrone				
	SUB		86.8 ± 1.5	298	C	[2011SOU/MAT]
$C_7H_8O_2$	[1193-79-9]	5-methyl-2-acetylfuran				
	V		61.7 ± 0.2	298	C	[2010RIB/AMA]
$C_7H_8O_2$	[52480-43-0]	4,5-dimethyl-2-furaldehyde				
	V		57.7 ± 0.6	298	C	[2011RIB/AMA]
$C_7H_8O_2S$	[52911-98-5]	6-methyl-4-methoxy-2*H*-pyran-2-thione				
	FUS		21.34			[1974BEA/MUE]
	SUB	(402–415)	130.5 ± 5.9	408	B	[1974BEA/MUE]
	V	(401–415)	108.9	408	A	[1987STE/MAL, 1999DYK/SVO, 1974BEA/MUE]
$C_7H_8O_2S$	[52911-99-6]	2-methyl-6-(methylthio)-4*H*-pyran-4-one				
	FUS		25.10			[1974BEA/MUE]
	SUB	(388–433)	87.4 ± 3.8	410	B	[1974BEA/MUE]
	V	(387–432)	62.7	402	A	[1987STE/MAL, 1999DYK/SVO, 1974BEA/MUE]
$C_7H_8O_2S$	[3112-85-4]	methyl phenyl sulfone				
	SUB		92 ± 2.9			[UR/MAC, 1970COX/PIL]
$C_7H_8O_2S$	[19432-68-9]	methyl 2-thiopheneacetate				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		61.9 ± 1.4	298	C	[2007ROU/TEM3]
$C_7H_8O_2S$	[58414-52-1]	methyl 3-thiopheneacetate				
	V		60.9 ± 1.3	298	C	[2007ROU/TEM3]
$C_7H_8O_2S$	[2810-04-0]	ethyl 2-thiophenecarboxylate				
	V		61.2 ± 1.4	298	C	[2013SAN/RIB2]
	V		56.6 ± 1.3	298	C	[2009RIB/SAN2]
$C_7H_8O_3$	[614-99-3]	2-furancarboxylic acid, ethyl ester				
	V	(354–389)	51.2	369	A	[1987STE/MAL]
	V	(310–468)	52.6	325		[1947STU]
$C_7H_8O_3$	[636-44-2]	2,5-dimethyl-3-furancarboxylic acid				
	SUB		99.0 ± 1.7	298	C	[2011RIB/AMA]
	SUB		100.9 ± 0.5	298	ME	[2011RIB/AMA]
$C_7H_8O_3$	[4225-42-7]	2-methoxy-6-methyl-4*H*-pyran-4-one				
	V	(370–384)	72.8	377	A	[1987STE/MAL]
	V		71.1			[1974BEA/MUE]
$C_7H_8O_3$	[672-89-9]	4-methoxy-6-methyl-2*H*-pyran-2-one				
	V	(385–434)	57.4	400	A	[1987STE/MAL]
	V		58.2			[1974BEA/MUE]
$C_7H_8O_3$	[4940-11-8]	2-ethyl-3-hydroxy-4-pyrone				
	SUB		91.4 ± 2.0	298	C	[2011SOU/MAT]
$C_7H_8O_3$	[934-00-9]	3-methoxycatechol				
	V		91.7 ± 0.8	298	C	[1986RIB/RIB]
C_7H_8S	[100-53-8]	benzenemethanethiol				
	V	(394–436)	47.5	409		[1999DYK/SVO]
	V		56.6 ± 0.1	298		[1972GOO]
C_7H_8S	[137-06-4]	2-methylbenzenethiol				
	V	(351–498)	48.1	366		[1999DYK/SVO]
	V	(370–470)	46.6	394	A	[1987STE/MAL]
	V		46.0			[1986BAL/GNA]
C_7H_8S	[108-40-7]	3-methylbenzenethiol				
	V	(353–498)	48.7	368		[1999DYK/SVO]
	V	(380–471)	47.1	395	A	[1987STE/MAL]
C_7H_8S	[106-45-6]	4-methylbenzenethiol				
	V	(351–499)	48.1	366		[1999DYK/SVO]
	V	(379–471)	46.5	394	A	[1987STE/MAL]
	V		46.4			[1986BAL/GNA]
C_7H_8S	[100-68-5]	methyl phenyl sulfide				
	FUS		14.85	256.4		[1974MES/FIN]
	V		47.7			[1986BAL/GNA]
	V		54.3 ± 0.1	298		[1972GOO, 1966OSB/DOU]
	V	(389–475)	47.5	404	A, EB	[1987STE/MAL, 1966OSB/DOU, 1999DYK/SVO]
	V	(323–353)	50.6 ± 2.1	298		[1962MAC/MAY]
$C_7H_8S_3$	[698-42-0]	4,5-tetramethylene-1,3-dithiole-2-thione				
	SUB	(340–352)	98.3	346		[1967GEI/SCH, 1970COX/PIL]
	SUB		102.1 ± 2.9			[1967GEI/SCH, 1970COX/PIL]
$C_7H_8S_3$	[14085-34-8]	4,5-tetramethylene-1,2-dithiole-3-thione				
	SUB	(335–350)	101.6	342		[1972GEI/RAU]
	SUB		105.3	298		[1972GEI/RAU]
$C_7H_9Cl_3NO_3PS$	[5598-13-0]	*O*, *O*-dimethyl-*O*-(3,5,6-trichloro-2-pyridyl)phosphorothioate				
	FUS		25.92	318.7	DSC	[1990DON/DRE]
$C_7H_9Cl_3OS$	[79886-21-8]	2,3,3-trichloro-2-propenethioic acid, *O*-butyl ester				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(383–433)		73.3	GC	[1980PIT/KIS]
$C_7H_9F_3N_2O_4$	[433-33-0]	glycine, *N*-[*N*-(trifluoroacetyl)glycyl]methyl ester				
	SUB	(323–419)	127.9	338	A	[1987STE/MAL, 1960WEY/KLI]
	V	(420–443)	93.8	431	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_9F_5O_2$	[680-28-4]	pentafluoropropionic acid, butyl ester				
	V	(354–389)	38.6	369	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
C_7H_9N	[100-46-9]	benzylamine				
	V		54.2 ± 1.6	298	CGC	[2013GOB/RAT]
	V	(276–313)	54.3 ± 0.3	298	GS	[2013THO/CHI]
	V	(277–316)	54.4 ± 0.3	298	GS	[2013THO/CHI]
	V		54.1 ± 2.1	298	CGC	[2013THO/CHI]
	V	(293–362)	52.7 ± 0.3	328	DM	[2009MOK/RAZ]
	V	(293–362)	54.6 ± 0.3	298	DM	[2009MOK/RAZ]
	V	(283–300)	52.1 ± 0.6	298	GS	[1999VER4, 2013THO/CHI]
	V		U60.2	298		[1976KUS/SAI, 2013THO/CHI]
	V	(302–458)	51.8	317	A	[1987STE/MAL, 1977CAR/LAY, 1947BEE/JUN]
C_7H_9N	[583-61-9]	2,3-dimethylpyridine				
	FUS	(12–441)	13.48	258.6	AC	[1994CHI/HOS]
	V	(283–313)	52.0 ± 0.6	298	GS	[1999VER4]
	V	(328–476)	45.2	340	EB	[1995STE/CHI2]
	V	(328–476)	42.7	380	EB	[1995STE/CHI2]
	V	(328–476)	40.2	420	EB	[1995STE/CHI2]
	V	(328–476)	37.4	460	EB	[1995STE/CHI2]
	V	(323–373)	47.6	298	CGC	[1995CHI/HOS]
	V		46.9	313	C	[1985MAJ/SVO2]
	V		45.0	343	C	[1985MAJ/SVO2]
	V		43.5	368	C	[1985MAJ/SVO2]
	V		47.7	298		[1985MAJ/SVO2]
	V	(372–436)	43.0	387	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[108-47-4]	2,4-dimethylpyridine				
	FUS	(11–440)	8.82	209.4	AC	[1994CHI/HOS]
	V	(323–373)	47.5	298	CGC	[1995CHI/HOS]
	V	(288–373)	45.5	330		[1995SAK/UEO]
	V	(331–473)	44.8	340	EB	[1995STE/CHI2]
	V	(331–473)	42.3	380	EB	[1995STE/CHI2]
	V	(331–473)	39.8	420	EB	[1995STE/CHI2]
	V	(331–473)	37.0	460	EB	[1995STE/CHI2]
	V	(298–431)	47.1	313	EB	[1990LEN]
	V	(267–358)	47.5	282	MM	[1986WIS/LEN]
	V		46.5	313	C	[1985MAJ/SVO2]
	V		44.6	343	C	[1985MAJ/SVO2]
	V		43.9	368	C	[1985MAJ/SVO2]
	V		47.5	298		[1985MAJ/SVO2]
	V	(349–433)	43.5	364	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[589-93-5]	2,5-dimethylpyridine				
	FUS	(12–441)	14.64	259.1	AC	[1994CHI/HOS]
	V	(330–471)	44.4	340	EB	[1995STE/CHI2]
	V	(330–471)	41.9	380	EB	[1995STE/CHI2]
	V	(330–471)	39.4	420	EB	[1995STE/CHI2]
	V	(330–471)	36.5	460	EB	[1995STE/CHI2]
	V	(358–431)	42.8	373	A, MG	[1987STE/MAL, 1953HER/MAR, 1973DYK/REP]
C_7H_9N	[108-48-5]	2,6-dimethylpyridine				
	FUS	(11–435)	13.04	267.1	AC	[1994CHI/HOS]
	V	(283–353)	45.3	298	Static	[2014BEN/AIT]
	V	(342–373)	45.9 ± 2.4	298	CGC	[2009LIP/CHI2]
	V	(263–353)	45.3	298		[2005BEN/AIT]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(323–373)	46.4	298	CGC	[1995CHI/HOS]
	V	(288–373)	43.7	330		[1995SAK/UEO]
	V	(315–457)	43.9	320	EB	[1995STE/CHI2]
	V	(315–457)	41.4	360	EB	[1995STE/CHI2]
	V	(315–457)	38.8	400	EB	[1995STE/CHI2]
	V	(315–457)	36.0	440	EB	[1995STE/CHI2]
	V	(295–417)	45.0	310	EB	[1990LEN]
	V	(267–358)	46.1	282	MM	[1986WIS/LEN]
	V		44.4	313	C	[1985MAJ/SVO2]
	V		42.5	343	C	[1985MAJ/SVO2]
	V		40.8	368	C	[1985MAJ/SVO2]
	V		45.4	298		[1985MAJ/SVO2]
	V	(352–418)	41.6	367	A, MG	[1987STE/MAL, 1953HER/MAR]
C_7H_9N	[583-58-4]	3,4-dimethylpyridine				
	FUS	(13–440)	14.7	262.7	AC	[1994CHI/HOS]
	V	(341–495)	46.6	360	EB	[1995STE/CHI2]
	V	(341–495)	44.2	400	EB	[1995STE/CHI2]
	V	(341–495)	41.7	440	EB	[1995STE/CHI2]
	V	(341–495)	39.0	480	EB	[1995STE/CHI2]
	V	(288–422)	47.6	355		[1995SAK/UEO]
	V		48.8	328	C	[1985MAJ/SVO2]
	V		47.6	343	C	[1985MAJ/SVO2]
	V		45.9	368	C	[1985MAJ/SVO2]
	V		50.5	298		[1985MAJ/SVO]
	V	(385–454)	44.8	400	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[591-22-0]	3,5-dimethylpyridine				
	FUS	(13–444)	13.11	266.9	AC	[1994CHI/HOS]
	V	(273–353)	48.5	298	Static	[2005BEN/AIT, 2014BEN/AIT]
	V	(323–373)	48.7	298	CGC	[1995CHI/HOS]
	V	(288–392)	47.0	340		[1995SAK/UEO]
	V	(335–487)	46.7	340	EB	[1995STE/CHI2]
	V	(335–487)	44.3	380	EB	[1995STE/CHI2]
	V	(335–487)	41.8	420	EB	[1995STE/CHI2]
	V	(335–487)	39.2	460	EB	[1995STE/CHI2]
	V	(273–358)	49.1	288	MM	[1986WIS/LEN]
	V		49.6	313	C	[1985MAJ/SVO2]
	V		46.5	343	C	[1985MAJ/SVO2]
	V		44.8	368	C	[1985MAJ/SVO2]
	V		49.5	298		[1985MAJ/SVO2]
	V	(373–446)	44.3	388	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[100-71-0]	2-ethylpyridine				
	V		44.7 ± 0.8	298	C	[2003MOR/MIR]
	V	(323–373)	43.7	338	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[536-78-7]	3-ethylpyridine				
	V	(334–373)	44.6	349	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[536-75-4]	4-ethylpyridine				
	V		46.3 ± 0.7	298	C	[2003MOR/MIR]
	V	(333–372)	45.3	348	A	[1987STE/MAL, 1973DYK/REP]
C_7H_9N	[100-61-8]	*N*-methylaniline				
	V	(284–320)	55.0 ± 0.2	298	GS	[2015EME/PIM]
	V	(353–467)	48.1	410	Static	[1993XIE/CHE]
	V	(353–467)	56.7 ± 0.2	298	Static	[1993XIE/CHE, 2015EME/PIM]
	V	(309–469)	53.6	324	A	[1987STE/MAL]
	V		45.4	467	C	[1931MAT/FEH]
	V		58.6 ± 1.0	298	C	[1931MAT/FEH, 2015EME/PIM]
	V	(323–473)	47.9	398	Static	[1925NEL/WAL]
	V	(323–473)	55.5 ± 0.4	298	Static	[1925NEL/WAL, 2015EME/PIM]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_9N	[95-53-4]	*o*-toluidine				
	FUS	(5–441)	11.66	287.6	AC, DSC	[1994STE/CHI]
	V	(282–313)	57.3 ± 0.2	298	GS	[2005EME/VER2]
	V	(290–517)	57.8	300	EB, IPM	[1994STE/CHI]
	V	(290–517)	54.5	340	EB, IPM	[1994STE/CHI]
	V	(290–517)	51.5	380	EB, IPM	[1994STE/CHI]
	V	(290–517)	48.6	420	EB, IPM	[1994STE/CHI]
	V	(290–517)	45.7	460	EB, IPM	[1994STE/CHI]
	V	(290–517)	42.7	500	EB, IPM	[1994STE/CHI]
	V		62.7 ± 0.5	298		[1990CHA/GAD, 2005EME/VER2]
	V	(473–690)	63.1	298		[1957GLA/RUL, 2005EME/VER2]
	V	(391–474)	50.0	406	A	[1987STE/MAL, 1949DRE/SHR, 1984BOU/FRI]
	V	(313–473)	56.2	298	EB	[1927BER/MAY, 2005EME/VER2]
C_7H_9N	[108-44-1]	*m*-toluidine				
	FUS		8.8	241.7	C	[1991ACR, 1990MEV/LIC]
	V	(282–313)	58.3 ± 0.4	298	GS	[2005EME/VER2]
	V		62.7 ± 0.5	298		[1990CHA/GAD, 2005EME/VER2]
	V	(420–439)	59.6 ± 0.3	298	EB	[1990CAB/BEL, 2005EME/VER2]
	V	(476–704)	64.1	298		[1957GLA/RUL, 2005EME/VER2]
	V	(394–477)	51.1	409	A	[1987STE/MAL, 1949DRE/SHR, 1984BOU/FRI]
	V	(313–473)	56.4	298	EB	[1927BER/MAY, 2005EME/VER2]
C_7H_9N	[106-49-0]	*p*-toluidine				
	FUS		17.19	317		[2001CEN/LIP]
	FUS		17.89	316.5		[1991ACR, 1983WEA]
	FUS		17.3	316.6	C	[1990MEV/LIC]
	FUS		18.12	318	DSC	[1989RAI/MAN]
	FUS		18.3			[1985SIN]
	FUS		18.9	316.9	C	[1963RAS/NIG]
	FUS		17.28	315.6		[1889EYK]
	SUB	(284–313)	76.2 ± 0.3	298	GS	[2005EME/VER2]
	SUB		78.8 ± 0.5	298		[1990CHA/GAD]
	V	(319–345)	57.8 ± 0.3	298	GS	[2005EME/VER2]
	V	(393–474)	51.1	408	A	[1987STE/MAL]
	V	(474–641)	62.1	298		[1957GLA/RUL, 2005EME/VER2]
	V	(315–473)	54.9	330		[1947STU]
	V	(313–473)	55.9	298	EB	[1927BER/MAY, 2005EME/VER2]
C_7H_9N	[1855-63-6]	1-cyclohexene-1-carbonitrile				
	V		53.6 ± 0.1	298	C	[1970PRO/KRE]
C_7H_9N	[31357-72-9]	bicyclo[3.1.0]hexane-1-carbonitrile				
	V	(366–444)	U43.2	382	BG	[1971HAL/BAL]
C_7H_9NO	[90-04-0]	2-methoxyaniline				
	V	(334–492)	57.5	349	A	[1987STE/MAL, 1947STU]
C_7H_9NO	[104-94-9]	4-methoxyaniline				
	FUS		18.53		DSC	[2008SIN/DAS]
C_7H_9NO	[3718-65-8]	3,5-dimethylpyridine *N*-oxide				
	SUB		100.9 ± 2.3	298	C	[2010CAB/MON]
$C_7H_9NO_2$	[6231-18-1]	2,6-dimethoxypyridine				
	V		53.9 ± 1.0	298	C	[2012AMA/RIB]
$C_7H_9NO_2$	[2199-43-1]	ethyl 2-pyrrolecarboxylate				
	SUB		88.0 ± 1.6	298	C	[2013SAN/RIB4]
$C_7H_9NO_2$	[37619-24-2]	methyl 1-methyl-2-pyrrolecarboxylate				
	V		59.2 ± 1.2	298	C	[2013SAN/RIB5]
$C_7H_9N_5$	[87578-82-3]	8,9-dimethyladenine				
	SUB	(369–374)	105.8 ± 0.8	361	ME	[1987KAM/ZIE]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_9N_5$	[76470-20-7]	2,9-dimethyladenine				
	SUB	(359–364)	123.5	371		[1992KAM]
$C_7H_9N_5$	[938-55-6]	*N*, *N*-dimethyladenine				
	SUB	(379–409)	115.5 ± 2.1		ME	[1984ZIE/ZIE]
$C_7H_9N_5$	[2009-52-1]	*N*,9-dimethyladenine				
	SUB	(336–369)	115.5 ± 1.7		ME	[1984ZIE/ZIE]
$C_7H_9N_5O_{12}$	[34001-49-5]	2,2,2-trinitroethyl-4,4-dinitropentanoate				
	TRS		20.08	363.8		
	FUS		6.69	366.7	DSC	[1971ROS/HOL]
$C_7H_9N_5O_{12}$	[2555-56-8]	2,2-dinitropropyl-4,4,4-trinitrobutyrate				
	TRS		25.94	284.2		
	TRS		20.92	335.5		
	FUS		6.69	368.2	DSC	[1971ROS/HOL]
$C_7H_9O_3P$	[61451-78-3]	*P*-(hydroxymethyl)-*P*-phenylphosphinic acid				
	FUS		27.16	413.4	DSC	[2010GUO/WAN2]
C_7H_{10}	[498-66-8]	bicyclo[2.2.1]hept-2-ene (norbornene)				
	TRS		4.37	130.3		
	FUS		3.48	319.5		[1992LEB/SMI, 1992SMI/LEB]
	SUB		37.8 ± 0.14	298	C	[1982JOC/DEK]
	SUB		37.7 ± 0.9	298	BG	[1978STE2]
	SUB		38.7 ± 0.5	298	C	[1976KOZ/BYC]
	V	(338–406)	35.1 ± 0.2	298	EB	[1996STE/CHI2]
	V	(338–406)	33.0 ± 0.2	340	EB	[1996STE/CHI2]
	V	(338–406)	30.8 ± 0.3	380	EB	[1996STE/CHI2]
	V	(301–350)	34.3	316	A	[1987STE/MAL]
	V	(301–350)	33.6 ± 0.08		BG	[1973HAL/SMI]
C_7H_{10}	[16554-83-9]	bicyclo[4.1.0]hept-3-ene				
	V	(333–384)	36.7	348	A	[1987STE/MAL]
	V		38.4 ± 0.6	298	EB	[1974VAR/DRU]
C_7H_{10}	[279-19-6]	tricyclo[2.2.1.0^{2,6}]heptane (nortricyclene)				
	SUB		38.7 ± 0.7	298	BG	[1978STE2]
	SUB		39.2 ± 1.1	298	C	[1976KOZ/BYC]
	V		38.5	298		[2008OSM/CAT]
	V	(302–337)	38.3	317	A	[1987STE/MAL]
C_7H_{10}	[187-26-8]	tricyclo[4.1.0.0^{2,4}]heptane				
	V		36.5 ± 0.5	298	EB	[1974VAR/DRU]
C_7H_{10}		tricyclo[4.1.0.0^{2,6}]heptane				
	V	(322–373)	35.3	337	A	[1987STE/MAL]
C_7H_{10}	[33475-22-8]	dispiro[2.0.2.1]heptane				
	V		35.1 ± 0.5	298		[2008OSM/CAT]
$C_7H_{10}ClN_3O_3$	[16773-42-5]	1-(2-hydroxy-3-chloropropyl)-2-methyl-5-nitroimidazole (ornidazole)				
	FUS		21.38	358.6		[2004WAN/TAN2]
$C_7H_{10}N_2$	[14667-55-1]	2,3,5-trimethylpyrazine				
	V		53.9 ± 1.6	298	C	[1996RIB/MOR]
$C_7H_{10}N_2$	[538-08-9]	diallycyanamide				
	V	(369–495)	52.3	384	A	[1987STE/MAL]
$C_7H_{10}N_2$	[95-80-7]	2,4-diaminotoluene				
	V	(379–553)	67.7	394	A	[1987STE/MAL, 1947STU]
$C_7H_{10}N_2$	[539-44-6]	4-tolyhydrazine				
	V	(355–515)	65.4	370	A	[1987STE/MAL, 1947STU]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{10}N_2$	[4210-60-0]	α-*tert*-butylmalononitrile				
	SUB	(293–323)	59.8 ± 0.7	298		[1990BEC/DOG]
$C_7H_{10}N_2$	[646-20-8]	pimelonitrile				
	FUS		15.0	241.7	DSC	[2007BAD/BLA]
	V	(306–331)	74.5	318	A	[1987STE/MAL, 1960WOO/MUR]
$C_7H_{10}N_2$	[5683-33-0]	2-*N*, *N*-dimethylaminopyridine				
	V	(288–348)	55.2 ± 0.1	298	GS	[2011LIP/RAT]
	V		54.6 ± 2.1	298	CGC	[2011LIP/RAT]
	V	(233–323)	54.0	298	ME	[1991AUE/WEB]
$C_7H_{10}N_2$	[18437-57-5]	3-*N*, *N*-dimethylaminopyridine				
	V	(233–323)	70.7	298	ME	[1991AUE/WEB]
$C_7H_{10}N_2$	[1122-58-3]	4-*N*, *N*-dimethylaminopyridine				
	FUS	(80–402)	21.63	387.1	AC	[2007SHI/TAN]
	SUB	(323–368)	87.0 ± 0.2	298	GS	[2011LIP/RAT]
	SUB	(233–323)	81.6	298	ME	[1991AUE/WEB]
[Note: Authors of [1991AUE/WEB] refer to the value as an enthalpy of vaporization. The compound's melting point temperature is above the temperature range of the measured VPs.]						
	V		61.3 ± 2.5	298	CGC	[2011LIP/RAT]
$C_7H_{10}N_2$	[717908-74-2]	*N*-cyclopropylmethylimidazole				
	V	(303–343)	59.8 ± 0.3	298	GS	[2015VER/ZAI3]
$C_7H_{10}N_2O$	[25926-99-2]	6,7-diazatricyclo[3.2.2.0^{2,4}]non-6-ene-*N*-oxide				
	TRS		15.8	372.6		
	FUS		2.6	411.4	DSC	[1980BYS]
$C_7H_{10}N_2OS$	[51-52-5]	6-propyl-2-thiouracil				
	SUB	(401–423)	136.0 ± 0.9	412	ME	[2014SZT/GAL]
	SUB	(401–423)	139.7 ± 0.9	298	ME	[2014SZT/GAL]
$C_7H_{10}N_2O_2$	[4401-71-2]	1,3-dimethylthymine				
	FUS		23.6	426.5	DSC	[1984ZIE/ZIE2]
	SUB	(313–363)	109.2 ± 2.1	338	QR	[1980TEP/YAN]
$C_7H_{10}N_2O_2$	[4401-71-2]	1,3,5-trimethyluracil				
	FUS		16.1	428.7	DSC	[1996KAM/ZIE]
	SUB	(348–391)	94.9 ± 0.6	298	GS	[2013NOT/EME]
	SUB	(321–331)	103.5 ± 1.5	326	ME	[1996KAM/ZIE]
$C_7H_{10}N_2O_2$	[13509-52-9]	1,3,6-trimethyluracil				
	FUS		21.2	384.5	DSC	[1996DOM/HEA, 1984ZIE/ZIE2]
	SUB	(300–340)	106.7 ± 2.5	320	QR	[1980TEP/YAN]
$C_7H_{10}N_2O_2$	[1709-52-0]	4-amino-*N*-methylbenzene sulfonamide				
	FUS		17.1	382.2	DSC	[2014PER/KAZ]
$C_7H_{10}N_2O_3$	[7358-61-4]	1,3,5-trimethylbarbituric acid				
	FUS		13.7	362.6	DSC	[2011TEM/ROU]
	SUB	(322–358)	96.1 ± 0.8	298	GS	[2014NOT/ROU]
$C_7H_{10}N_2O_3$	[702-47-6]	1,5,5-trimethylbarbituric acid				
	FUS		30.2	434.5	DSC	[2011TEM/ROU]
	SUB	(360–428)	106.2 ± 0.4	298	GS	[2014NOT/ROU]
$C_7H_{10}N_2O_3$	[7391-69-7]	5-isopropylbarbituric acid				
	SUB		125.0 ± 3.8	298	C	[2016SZT/GAL]
	SUB	(369–391)	120.8 ± 0.6	380	ME	[2016SZT/GAL]
	SUB	(369–391)	123.6 ± 0.6	298	ME	[2016SZT/GAL]
$C_7H_{10}O$	[17356-19-3]	1-ethynyl-1-cyclopentanol				
	V	(323–373)	62.1	298	CGC	[1995CHI/HOS]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{10}O$	[10218-02-7]	7-norbornanone				
	SUB	(300–340)	47.3 ± 2.2	298	BG	[1978STE]
	V	(322–348)	47.9	335	EB	[1994WIB/MOR]
$C_7H_{10}O$	[497-38-1]	2-norbornanone				
	FUS		3.39	368.7	DSC	[1993ACR, 1991CHI/BRA]
	SUB	(300–340)	49.0 ± 1.7	298	BG	[1978STE]
	V		50.0	298	GC	[2002VAN/PAR]
	V	(343–383)	51.5	298	CGC	[1995CHI/HOS]
	V	(343–383)	49.6	298	CGC	[1995CHI/HOS]
$C_7H_{10}O$	[1121-37-5]	dicyclopropyl ketone				
	V		53.7 ± 0.9	298	C	[1981GAT/STR]
$C_7H_{10}O_2$	[20583-46-4]	5-methyl-5-hexene-2,4-dione				
	V	(323–363)	26.4	338	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_{10}O_2$	[4350-84-9]	2-oxabicyclo[2.2.2]octan-3-one				
	TRS		1.1	299.0		
	TRS		1.7	322.5		
	TRS		7.0	356.5		
	FUS		3.8	400.0	DSC	[1980AND/PIL]
	SUB		69.6 ± 2.1		C	[1980AND/PIL]
$C_7H_{10}O_3$	[815-68-9]	3-acetyl-2,4-pentanedione				
	V	(369–477)	54.9	384	A	[1987STE/MAL]
$C_7H_{10}O_3$	[106-91-2]	glycidyl methacrylate				
	V		61.2 ± 0.4	298	A	[1987VAN/KAC]
	V		60.6 ± 0.9	298	C	[1986YER/WOR2]
$C_7H_{10}O_3$	[281-32-3]	2,4,10-trioxaadamantane				
	SUB		74.4 ± 0.4	298	C	[1974MAN2]
$C_7H_{10}O_3$	[4160-82-1]	3,3-dimethylpentanedioic anhydride				
	FUS		17.99	396.2		[1974BOR]
$C_7H_{10}O_3$	[35046-67-4]	trimethylsuccinic anhydride				
	SUB		74.1 ± 4.2			[1954JOR, 1970COX/PIL]
	V	(326–504)	52.9	341	A	[1987STE/MAL, 1947STU]
$C_7H_{10}O_4$	[50483-99-3]	1,2-cyclopentanedicarboxylic acid				
	FUS		19.1	428.6	DSC	[2011BOO/MON]
	SUB	(298–318)	66	308	ME	[2011BOO/MON]
$C_7H_{10}O_4$	[617-54-9]	dimethyl citraconate				
	V	(324–484)	55.8	339	A	[1987STE/MAL, 1947STU]
$C_7H_{10}O_4$	[617-52-7]	dimethyl itaconate				
	V	(342–481)	67.0	357	A	[1987STE/MAL, 1947STU]
$C_7H_{10}O_4$	[617-53-8]	dimethyl mesaconate				
	V	(319–479)	55.2	334	A	[1987STE/MAL, 1947STU]
$C_7H_{10}O_6$	[1186-73-8]	tris(methoxycarbonyl)methane				
	FUS		18.2	301.2		[1995RAK/VER]
	V	(308–348)	74.4 ± 0.6		GS	[1995RAK/VER]
$C_7H_{10}S$	[1551-27-5]	2-propylthiophene				
	V		43.7 ± 1.0	298	C	[2007RIB/SAN]
	V	(243–303)	46.0	273		[1981EDW/PRA, 1999DYK/SVO]
$C_7H_{10}S$	[4095-22-1]	2-isopropylthiophene				
	V	(352–468)	41.5	367		[1999DYK/SVO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{10}S_3$	[2164-87-6]	4,5-tetramethylene-1,3-dithiolan-2-thione				
	SUB	(353–369)	99.0	360		[1967GEI/SCH, 1970COX/PIL]
	SUB		103.9 ± 2.9	298		[1967GEI/SCH, 1970COX/PIL]
$C_7H_{11}BrO_2$	[26918-14-9]	4-bromo-3-methylcrotonic acid, ethyl ester				
	V	(346–381)	43.1	361	A	[1987STE/MAL]
$C_7H_{11}ClO_5$		(2-chloroethyl)[(1-methoxycarbonyl)ethyl] carbonate				
	V	(365–525)	66.8	380	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_{11}Cl_3O_2$	[57392-56-0]	trichloracetic acid, neopentyl ester				
	V	(378–473)	57.7	393	A	[1987STE/MAL, 1999DYK/SVO, 1940QUA/NOR]
$C_7H_{11}N$	[766-05-2]	cyclohexanecarbonitrile				
	TRS		7.43	215		
	FUS		3.64	285.1		[1996DOM/HEA, 1991KIS/PIN]
	V	(333–427)	39.4	351	BG	[1971HAL/BAL]
	V		51.9 ± 0.1	298	C	[1970PRO/KRE]
$C_7H_{11}N$	[931-53-3]	isocyanocyclohexane				
	FUS		3.98	277.7	DSC	[2008SIN/MUR2]
	TRS		6.18	192.6		
	FUS		4.23	279.6		[1996DOM/HEA, 1991KIS/PIN]
$C_7H_{11}N$	[930-87-0]	1,2,5-trimethylpyrrole				
	V		50.7 ± 1.3	298	C	[2014SAN/RIB]
$C_7H_{11}NO_2$		2-methyl-2-acetoxybutyronitrile				
	V	(315–469)	58.1	330	A	[1987STE/MAL, 1947STU]
$C_7H_{11}NO_2$	[7149-65-7]	5-oxo-2-pyrrolidinecarboxylic acid, ethyl ester				
	V	(418–511)	73.7	433	A, EB	[1987STE/MAL, 1953MEL/VIO]
$C_7H_{11}N_3O$	[2228-27-5]	1,*N*, *N*-trimethylcytosine				
	SUB		110.9 ± 1.7			[1998ZIE/WSZ]
$C_7H_{11}N_3O$	[25307-94-2]	1,5,*N*-trimethylcytosine				
	SUB	(396–431)	108.0 ± 2.0		GS	[1998ZIE/WSZ]
$C_7H_{11}N_3O_2$	[38691-19-9]	1,5-dimethyl-*N*-methoxycytosine				
	SUB	(327–365)	95.6 ± 0.7		GS	[1998ZIE/WSZ]
$C_7H_{11}N_3O_3$	[1077-93-6]	3-(2-methyl-5-nitroimadazol-1-yl)propan-1-ol (ternidazole)				
	FUS		25.65	333	DSC	[2011MAH/PER]
$C_7H_{11}N_5O_{10}$	[242800-94-8]	1,1,1,4,4-pentanitro-2,2-dimethylpentane				
	SUB		114.2 ± 1.2	298	C	[2011MIR/KON]
	SUB		103.8	298		[1999MIR/VOR]
C_7H_{12}	[279-23-2]	bicyclo[2.2.1]heptane (norbornane)				
	FUS		4.45	360.8	DSC	[2004VER/EME]
	SUB	(278–308)	40.3 ± 0.4	293	GS	[2004VER/EME]
	SUB	(278–308)	40.1 ± 0.4	298	GS	[2004VER/EME]
	SUB		40.0 ± 0.1	298	C	[1987AN/ZHU]
	SUB		40.3 ± 0.32	298	C	[1982JOC/DEK]
	SUB		40.4 ± 0.8	298	BG	[1978STE2]
	SUB	(284–326)	40.0 ± 0.8	305	TSGC	[1975CLA/KNO]
	SUB	(300–363)	39.33 ± 0.13		BG	[1973HAL/SMI]
	SUB	(284–326)	40.1 ± 0.8		BG	[1971BOY/SAN, 1977PED/RYL]
C_7H_{12}	[286-08-8]	*cis*-bicyclo[4.1.0]heptane				
	V		40.6 ± 0.2	298		[2008OSM/CAT]
	V	(298–385)	38.0 ± 0.8	313	A, EB	[1987STE/MAL, 1970CHA/MCN]
C_7H_{12}	[286-08-8]	(*dl*)-bicyclo[4.1.0]heptane				
	V	(333–385)	36.5	348	A	[1987STE/MAL]
C_7H_{12}	[4625-24-5]	1-methylbicyclo[3.1.0]hexane				
	V	(312–362)	34.0	327	A	[1987STE/MAL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_{12}	[628-92-2]	cycloheptene				
	TRS	(14–305)	7.1	154.3		
	TRS	(14–305)	0.73	208.3		
	FUS	(14–305)	0.88	217.8		[1994LEB/SMI]
	TRS		5.28	154		
	TRS		0.71	210		
	FUS		0.97	217	DSC	[1996DOM/HEA, 1990HAI/GIL2]
	V	(251–313)	38.5	266	A	[1987STE/MAL, 1941LIS]
	V	(251–312)	36.7	300		[1941LIS]
C_7H_{12}	[765-47-9]	1,2-dimethylcyclopentene				
	V	(294–431)	36.4	309	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[62184-82-1]	(*dl*)-1,3-dimethylcyclopentene				
	V	(283–410)	35.0	298	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[57426-81-0]	(*dl*)-1,4-dimethylcyclopentene				
	V	(273–413)	35.1	288	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[16491-15-9]	(*dl*)-1,5-dimethylcyclopentene				
	V	(273–423)	37.1	288	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[2146-37-4]	ethylidenecyclopentane				
	V		38.6 ± 0.2	298	GCC	[1979FUC/PEA]
C_7H_{12}	[2146-38-5]	1-ethylcyclopentene				
	V		38.5 ± 0.3	298	GCC	[1979FUC/PEA]
	V	(293–433)	36.5	308	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[694-35-9]	3-ethylcyclopentene				
	V	(288–435)	36.5	303	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[3742-38-9]	4-ethylcyclopentene				
	V	(288–435)	36.5	303	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{12}	[591-49-1]	1-methyl-1-cyclohexene				
	V	(275–313)	37.7 ± 0.2	294	GS	[2000VER/WAN]
	V	(275–313)	37.5 ± 0.2	298	GS	[2000VER/WAN]
	V	(333–384)	35.7	348	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
	V	(309–384)	36.7	324	MM	[1960CAM/ROS]
C_7H_{12}	[591-48-0]	(*dl*)-3-methyl-1-cyclohexene				
	V	(335–376)	34.8	350	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_7H_{12}	[591-47-9]	(*dl*)-4-methyl-1-cyclohexene				
	FUS		6.63	153.6		[1994LEB/SMI]
	V	(275–296)	37.0 ± 0.6	286	GS	[2000VER/WAN]
	V	(275–296)	36.3 ± 0.6	298	GS	[2000VER/WAN]
	V	(292–429)	36.3	307	A	[1987STE/MAL]
C_7H_{12}	[1192-37-6]	methylenecyclohexane				
	V		36.1 ± 0.3	298	GCC	[1979FUC/PEA]
	V	(331–387)	34.4	346	A, EB	[1987STE/MAL, 1973MEY/HOT]
C_7H_{12}	[628-71-7]	1-heptyne				
	V	(336–373)	37.9	351	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_7H_{12}	[1119-65-9]	2-heptyne				
	V	(346–385)	38.6	361	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_7H_{12}	[2586-89-2]	3-heptyne				
	V	(343–380)	39.1	358	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
$C_7H_{12}Br_2$	[29974-68-3]	1,2-dibromocycloheptane				
	V	(292–353)	50.3	307	A	[1987STE/MAL, 1941LIS, 1973DYK/REP]
$C_7H_{12}ClNO$	[13654-91-6]	6-chlorohexylisocyanate				
	V	(363–453)	52.5	378	A	[1987STE/MAL, 1968ZHU/KON, 1973DYK/REP]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{12}ClN_5$	[122-34-9]	2-chloro-4,6-bis(ethylamino)-*s*-triazine (Simazin)				
	FUS		47.35	502.5	DSC	[1990DON/DRE]
	FUS		48.2		DSC	[1971GET/WAR]
	SUB	(323–403)	130.8	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_7H_{12}Cl_2O_2$	[860540-85-8]	dichloroacetic acid, neopentyl ester				
	V	(368–463)	57.4	383	A	[1987STE/MAL, 1999DYK/SVO, 1940QUA/NOR]
$C_7H_{12}Cl_2S$	[743438-46-2]	(2-chloroethyl)(2-chlorocyclopentyl) sulfide				
	V	(273–333)	65.9	303	A, GS	[1987STE/MAL, 1948RED/CHA, 1999DYK/SVO]
$C_7H_{12}Cl_4$	[3922-36-9]	1,1,1,7-tetrachloroheptane				
	V	(342–455)	71.7	357		[1999DYK/SVO]
	V	(370–454)	69.9	385	A	[1987STE/MAL]
$C_7H_{12}N_2$	[3010-03-5]	1-piperidinoacetonitrile				
	FUS		17.57	293.2		[1997WEL/VER]
	V	(303–338)	56.0 ± 0.5		GS	[1997WEL/VER]
$C_7H_{12}N_2$	[3001-72-7]	1,5-diazabicyclo[4.3.0]non-5-ene				
	V		56.8	392	DP-LPD	[2016OST/UUS]
	V		62.6 ± 1.3	298	DP-LPD	[2016OST/UUS]
	V		61.9 ± 0.2	298	GS	[2011LIP/RAT]
	V		61.1 ± 2.4	298	CGC	[2011LIP/RAT]
$C_7H_{12}N_2$	[33214-18-5]	1-propyl-2-methylimidazole				
	V	(289–343)	63.7 ± 0.2	298	GS	[2011EME/POR2]
$C_7H_{12}N_2$	[4316-42-1]	1-butylimidazole				
	V		63.9 ± 0.5	298	C	[2015VIT/AGA]
$C_7H_{12}N_2$	[16245-89-9]	*N*-isobutylimidazole				
	V	(290–326)	62.2 ± 0.3	298	GS	[2015VER/ZAI3]
$C_7H_{12}N_2$	[20075-29-0]	*N*-*sec*-butylimidazole				
	V	(296–330)	64.6 ± 0.3	298	GS	[2015VER/ZAI3]
$C_7H_{12}N_2$	[45676-04-8]	*N*-*tert*-butylimidazole				
	V	(297–343)	61.9 ± 0.4	298	GS	[2015VER/ZAI3]
$C_7H_{12}N_2O_2$	[16395-58-7]	*N*-acetyl-L-prolinamide				
	FUS		29.3	417.5	DSC	[1997ABA/PAL]
$C_7H_{12}N_4O_{10}$	[5917-61-3]	bis(2,4-dinitropropyl)formal				
	V	(333–383)	84.8 ± 0.9	358		[2007RAU/BEH]
$C_7H_{12}O$	[497-37-0]	*exo*-norborneol				
	V		52.5	298	GC	[2002VAN/PAR]
$C_7H_{12}O$	[931-57-7]	1-methoxycyclohexene				
	V	(274–313)	44.0 ± 0.2	294	GS	[1998VER/WEL]
	V	(274–313)	43.7 ± 0.2	298	GS	[1998VER/WEL]
$C_7H_{12}O$	[502-42-1]	cycloheptanone				
	TRS		12.4	227		
	TRS		0.43	232.6		
	FUS		1.39	259.3	DSC	[1998GON/SZW]
	V	(343–383)	50.6	298	CGC	[1995CHI/HOS]
	V	(343–383)	51.9	298	CGC	[1995CHI/HOS]
	V	(343–383)	50.7	298	CGC	[1995CHI/HOS]
	V	(313–453)	48.5	328	A	[1987STE/MAL]
	V	(373–465)	44.8	388	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(313–383)	49.5 ± 0.6	298	VP	[1972WOL]
$C_7H_{12}O$	[583-60-8]	2-methylcyclohexanone				
	V	(339–437)	44.0	298	EB	[2006PAL/ORA]
	V	(331–437)	45.0	346		[1993BRU/MON]
$C_7H_{12}O$	[591-24-2]	3-methylcyclohexanone				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(334–441)	44.9	349		[1993AUC/BUR]
$C_7H_{12}O$	[589-92-4]	4-methylcyclohexanone				
	V	(339–444)	45.3	354		[1993AUC/BUR]
$C_7H_{12}O_2$	[14924-53-9]	cyclobutanecarboxylic acid ethyl ester				
	V	(274–308)	44.9 ± 0.4		GS	[1998VER/KUM]
$C_7H_{12}O_2$	[176-32-9]	1,4-dioxaspiro[4.4]nonane				
	V	(278–313)	47.6 ± 0.5	298	GS	[1998VER/PEN, 2002VER]
$C_7H_{12}O_2$	[141-32-2]	butyl acrylate				
	FUS		17.31	209.5	AC	[1996DOM/HEA, 1985KAR/ABD]
	V	(278–418)	52.0 U	298		[2013LOM/GIN]
	V	(318–419)	47.3 ± 0.3	298	EB	[1996STE/CHI2]
	V	(318–419)	45.7 ± 0.3	320	EB	[1996STE/CHI2]
	V	(318–419)	42.8 ± 0.3	360	EB	[1996STE/CHI2]
	V	(318–419)	40.0 ± 0.3	400	EB	[1996STE/CHI2]
	V	(272–421)	44.8	287	A	[1987STE/MAL, 1947STU]
$C_7H_{12}O_2$	[106-63-8]	isobutyl acrylate				
	V	(330–410)	43.8	345	A	[1987STE/MAL]
$C_7H_{12}O_2$	[539-87-7]	heptanolactone				
	V	(368–390)	48.2 ± 0.3	379	MM	[1991WIB/WAL]
	V	(369–390)	53.3 ± 1.3	298	MM	[1991WIB/WAL]
$C_7H_{12}O_2$	[105-21-5]	γ-heptalactone				
	V	(298–363)	62.3 ± 0.3	298	GS	[2008EME/KOZ]
$C_7H_{12}O_2$	[2210-28-8]	propyl methacrylate				
	V	(304–413)	41.6	319	A	[1987STE/MAL]
$C_7H_{12}O_2$	[98-89-5]	cyclohexanecarboxylic acid				
	FUS		9.2	301.9	DSC	[2008DOM/MOR]
$C_7H_{12}O_2$	[4351-54-6]	cyclohexyl formate				
	FUS	(5–320)	10.49	201.3	AC	[1999KAB/KOZ, 2001KOZ/BLO]
	V	(307–434)	47.1	322		[2005STE/SUN]
	V		49.3 ± 0.2	298	C	[2004PAU/ZAI, 2003ZAI/VER]
	V	(243–273)	52.0 ± 1.3	298	ME	[2003ZAI/VER]
	V	(243–273)	49.5 ± 1.2	298	ME	[2003ZAI/VER]
$C_7H_{12}O_2$	[638-10-8]	ethyl 3-methylbut-2-enoate				
	V	(274–319)	49.3 ± 0.2	298	GS	[2008EME/TOK]
$C_7H_{12}O_2$	[1191-16-8]	3-methyl-2-butenyl acetate				
	V		47.8 ± 1.4	298	CGC	[2015KOZ/GOB]
$C_7H_{12}O_3$	[2461-40-7]	glycidyl butyrate				
	V		58.7 ± 0.4	298		[1987VAN/KAC]
	V		58.0 ± 0.4	298	C	[1986YER/WOR2]
$C_7H_{12}O_3$	[10235-71-9]	2-acetoxy-2-methyl-3-butanone				
	V	(337–368)	54.8	352	A	[1987STE/MAL]
$C_7H_{12}O_3$	[539-88-8]	ethyl levulinate				
	V	(320–480)	58.3	335	A	[1987STE/MAL, 1947STU]
	V		51.6	420		[1931SCH/COW]
$C_7H_{12}O_3$	[27761-61-1]	1,4-dimethyl-2,6,7-trioxabicyclo[2.2.2]octane				
	FUS		18.0	370.2		[1995RAK/VER2]
	SUB		74.9	298		[1995RAK/VER2]
$C_7H_{12}O_4$	[2985-28-6]	2-acetoxypropionic acid, ethyl ester				
	V	(313–454)	57.9	328	A	[1987STE/MAL, 1950REH/DIX]
$C_7H_{12}O_4$	[40326-37-2]	3-acetoxypropionic acid, ethyl ester				
	V	(350–367)	72.1	358	A	[1987STE/MAL, 1973DYK/REP, 1948FEI/FIS]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{12}O_4$	[623-84-7]	1,2-propylene glycol diacetate				
	V	(318–367)	54.9	323		[2001HOR/GAR]
$C_7H_{12}O_4$	[105-53-3]	diethyl malonate				
	V	(265–288)	60.8	283	ME	[2014BRO/BUC]
	V	(336–471)	56.3	343	DTA	[2014BRO/BUC]
	V	(336–471)	54.7	373	DTA	[2014BRO/BUC]
	V	(336–471)	53	413	DTA	[2014BRO/BUC]
	V	(336–471)	51.7	453	DTA	[2014BRO/BUC]
	V	(336–471)	51.3	469	DTA	[2014BRO/BUC]
	V	(284–316)	61.1	300	GS	[2011LIP/KRA]
	V	(284–316)	61.7 ± 0.3	298	GS	[2011LIP/KRA]
	V		58.4 ± 0.6	298	GC	[1992KAT, 2011LIP/KRA]
	V	(288–318)	64.7 ± 0.2	293	GS	[1992VER/BEC]
	V	(288–318)	65.1 ± 0.2	298	GS	[1992VER/BEC, 2011LIP/KRA]
[Note: Steele and coworkers in reference [2002STE/CHI6] refer to a personal communication with one of the authors of [1992VER/BEC]—stating that it was established that the compound studied was not diethyl malonate. In a subsequent paper [2011LIP/KRA] co-authored by one of the authors of [1992VER/BEC] the data are still taken to be diethyl malonate.]						
	V	(293–318)	63.3	305	A	[1987STE/MAL]
	V	(384–468)	59.9	399	A	[1987STE/MAL]
	V	(313–472)	51.2	328	A	[1987STE/MAL]
	V	(365–491)	56.9	428	EB	[1978SMI/ZEL, 2011LIP/KRA]
	V	(365–491)	67.2 ± 0.5	298	EB	[1978SMI/ZEL, 2011LIP/KRA]
	V	(314–472)	51.2	393		[1947STU, 2011LIP/KRA]
	V	(314–472)	60.5	298		[1947STU, 2011LIP/KRA]
	V	(315–464)	51.2	390		[1940HEI/REI, 2011LIP/KRA]
	V	(315–464)	58.7 ± 0.2	298		[1940HEI/REI, 2011LIP/KRA]
$C_7H_{12}O_4$	[6065-54-9]	dimethyl dimethylmalonate				
	V	(278–307)	55.6 ± 0.8	293	GS	[1992VER/BEC]
$C_7H_{12}O_4$	[1119-40-0]	glutaric acid, dimethyl ester				
	V	(283–348)	65.7 ± 0.4	298	GS	[2006VER/KOZ]
	V	(366–483)	54.7	381	A	[1987STE/MAL]
	V	(388–483)	66.1	298	EB	[1963VLA/GRA, 2006VER/KOZ]
$C_7H_{12}O_4$	[627-91-8]	methyl adipate				
	V	(453–503)	82.9	468	A	[1987STE/MAL]
$C_7H_{12}O_4$	[111-16-0]	heptanedioic acid (pimelic acid)				
	FUS		28.8	377.4	DSC	[2012WAN/DEN, 2012WAN/LI]
	FUS		31.78	378.0	DSC	[2010COO/DAV]
	TRS		1.5	337.7		
	FUS		30.3	377.5	DSC	[2002STE/CHI6]
	FUS		23.7	368.2	DSC	[2005ROU/TEM]
	FUS		27.62	377.5	DSC	[1991ACR, 1974CIN/BER]
	SUB	(328–363)	153 ± 4		TPD	[2007CAP/LOV]
	SUB	(283–300)	124		TPTD	[2005CHA/ZIE]
	SUB	(318–336)	80.8		TPTD	[2005CHA/ZIE]
	SUB	(288–308)	178		TPTD	[2001CHA/TOB]
[Note: Values based on the TPTD method are not consistent with values determined by other experimental methods.]						
	SUB	(358–371)	136.6 ± 1.0	365	ME	[1999RIB/MON]
	SUB	(358–371)	139.9 ± 1.0	298	ME	[1999RIB/MON]
	V	(424–503)	112.0 ± 0.8	298	CGC	[2005ROU/TEM]
	V	(436–615)	88.6	451	A	[1987STE/MAL, 1947STU]
$C_7H_{12}O_4$	[126-54-5]	2,4,8,10-tetraoxaspiro[5.5]undecane				
	V		56.0			[1959FLE/MOR]
$C_7H_{12}O_4$	[32786-47-3]	2,2-diacetoxypropane				
	V	(283–318)	53.6 ± 0.4	298	GS	[1996VER/PEN]
$C_7H_{12}O_4$	[534-59-8]	butylmalonic acid				
	SUB	(348–362)	124.6 ± 2.3	298	ME	[2000RIB/MON]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{12}O_4$	[681-57-2]	2,2-dimethylglutaric acid				
	SUB	(342–353)	126.8 ± 2.1	298	ME	[2001RIB/MON2]
$C_7H_{12}O_4S_2$		(*dl*)-methylenebisthiopropionic acid				
	FUS		39.33	429	DSC	[1976LEC/COL]
$C_7H_{12}O_4S_2$		(*d*)-methylenebisthiopropionic acid				
	FUS		22.59	355	DSC	[1976LEC/COL]
$C_7H_{12}O_5$		ethyl[(1-methoxycarbonyl)ethyl]carbonate				
	V	(343–473)	60.0	358	A	[1987STE/MAL]
$C_7H_{12}O_5$		2-(lactyloxy)propionic acid, methyl ester				
	V	(317–384)	72.0	332	A	[1987STE/MAL, 1952REH/DIX]
$C_7H_{13}Cl$	[931-78-2]	1-chloro-1-methylcyclohexane				
	TRS	(5–320)	9.38	214.4		
	FUS	(5–320)	1.63	234.5	AC	[1998KAB/BLO]
$C_7H_{13}ClO$	[2528-61-2]	heptanoyl chloride				
	V	(307–418)	63.7	322	A	[1987STE/MAL, 1947STU]
$C_7H_{13}ClO_2$	[126176-76-9]	2-chloroacetic acid, neopentyl ester				
	V	(378–448)	55.6	393	A	[1987STE/MAL, 1999DYK/SVO, 1940QUA/NOR]
$C_7H_{13}F_3O_3$	[2339-51-7]	tris(2-fluoroethyl)orthoformate				
	V	(273–333)	59.7	288	A	[1987STE/MAL, 1999DYK/SVO, 1948RED/CHA4]
$C_7H_{13}N$	[20654-47-1]	2,2-dimethylpentanenitrile				
	V	(274–303)	46.9 ± 0.4		GS	[1994RAK/VER]
$C_7H_{13}N$	[629-08-3]	heptanonitrile				
	V	(280–307)	51.9 ± 0.3	298	GS	[2005EME/VER]
	V	(313–473)	46.0	328	A	[1987STE/MAL]
	V		51.9 ± 0.8	298	EB	[1973LEB/KAT, 2005EME/VER]
	V	(294–457)	46.4	309		[1947STU]
	V	(313–473)	49.1	298	EB	[1941RAL/SEL, 2005EME/VER]
	V	(314–472)	51.3 ± 0.3	298	MM	[1933HEI, 2005EME/VER]
$C_7H_{13}N$	[100-76-5]	1-azabicyclooctane				
	TRS	(6–438)	5.23	196		
	FUS	(6–438)	5.86	430		[1996DOM/HEA, 1970WES/WON]
	SUB		50.8 ± 0.4			[1971WON/WES, 1977PED/RYL]
	SUB		50.8 ± 0.2	298	ME	[1970WES/WON]
	SUB	(273–362)	50.8 ± 0.2	298		[1948BRO/SUJ, 1970COX/PIL, 1960JON]
$C_7H_{13}NO$	[2556-73-2]	*N*-methylcaprolactam				
	V	(403–510)	53.6	418	EB	[2007PAL/ORA2]
	V	(340–400)	49.4	370		[1984SHC/KAP]
$C_7H_{13}NO$	[102074-41-9]	2-butoxypropionitrile				
	V	(373–423)	46.7	388	A, I	[1987STE/MAL, 1973DYK/REP, 1933HEN/MUR]
$C_7H_{13}NO$	[162047-91-8]	2-methoxy-3,3-dimethylbutanenitrile				
	V	(295–324)	58.8 ± 1.1	298	GS	[1995VER/BEC]
$C_7H_{13}NO$	[162047-90-7]	2-methoxy-2-methylpentanenitrile				
	V	(278–308)	48.5 ± 0.6	298	GS	[1995VER/BEC]
$C_7H_{13}NO$		*trans*-6-heptenoic acid amide				
	SUB	(362–393)	97.2	377	A	[1987STE/MAL]
$C_7H_{13}NO$	[3612-18-8]	1-ethyl-4-piperidone				
	V		56.7 ± 0.6	298	C	[2006RIB/CAB]
$C_7H_{13}NO$	[673-66-5]	azacyclooctan-2-one				
	FUS		12.4	313.2	DSC	[2012EME/VER]
	FUS	(60–350)	13.78	310.3		[1996DOM/HEA, 1962KOL/PAU]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		89.6 ± 0.6	298	F + V	[2012EME/VER]
	V	(306–373)	77.9 ± 0.5	298	GS	[2012EME/VER]
$C_7H_{13}NO$	[107-58-4]	*N*-*tert*-butylacrylamide				
	FUS		21.57	401.65	DSC	[2015GAO/XUE]
$C_7H_{13}NO_2$	[5468-39-3]	lactic acid *N*-(methallyl) amide				
	V	(360–428)	81.8	375	A	[1987STE/MAL, 1950RAT/FIS]
$C_7H_{13}NO_2$	[27097-66-1]	*N*-lactylmorpholine				
	V	(371–423)	62.7	386	A	[1987STE/MAL, 1950RAT/FIS]
$C_7H_{13}NO_3$	[5143-72-6]	(*dl*)-*N*-acetylalanine ethyl ester				
	V	(372–460)	65.2	387	A, EB	[1987STE/MAL, 1973DYK/REP, 1953MEL/VIO]
$C_7H_{13}N_3O_3S$	[23135-22-0]	*N*, *N*-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio)acetamide				
	FUS		30.17	372.2	DSC	[1990DON/DRE]
$C_7H_{13}O_6P$	[7786-34-7]	2-methoxycarbonyl-1-methylvinyl dimethyl phosphate (mevinphos)				
	V	(293–383)	68.1	308	A	[1987STE/MAL]
C_7H_{14}	[291-64-5]	cycloheptane				
	TRS		4.98	134.8		
	TRS		0.29	198.2		
	TRS		0.45	212.4		
	FUS		1.88	265.1		[1996DOM/HEA, 1956FIN/SCO]
	FUS		1.9	265.2		[1952KAA/COO]
	SUB		53.5	134		[1963BON]
	V	(282–333)	38.6	297	A	[1987STE/MAL]
	V	(476–604)	31.7	491	A	[1987STE/MAL]
	V	(333–398)	36.4	348	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(283–323)	38.5	298		[1975ANA/GRO]
	V	(341–433)	36.1	356	A, EB	[1987STE/MAL, 1956FIN/SCO]
	V		38.5 ± 0.2	298		[1956FIN/SCO]
C_7H_{14}	[108-87-2]	methylcyclohexane				
	FUS	(12–285)	6.75	146.6		[1996DOM/HEA, 1946DOU/HUF]
	FUS		6.67	146.2		[1930PAR/HUF2]
	V	(321–374)	34.1	336	EB	[2011XIN/YAN]
	V	(325–374)	33.8	340		[2010SAP/UUS]
	V	(295–333)	36.2	310		[1991WU/PIV]
	V		35.1 ± 0.4	298	GC	[1987AZA]
	V	(373–511)	32.3	388	A	[1987STE/MAL]
	V	(501–573)	31.2	516	A	[1987STE/MAL]
	V		32.2	353		[1984EUB/CED]
	V		29.9	393		[1984EUB/CED]
	V		26.9	433		[1984EUB/CED]
	V		23.4	473		[1984EUB/CED]
	V	(315–373)	34.2	330	EB	[1983PAL/CHO]
	V		35.4 ± 0.1	298	C	[1979MAJ/SVO]
	V		34.6 ± 0.1	313	C	[1979MAJ/SVO]
	V		33.5 ± 0.1	333	C	[1979MAJ/SVO]
	V		32.5 ± 0.1	353	C	[1979MAJ/SVO]
	V		35.4	298	GCC	[1978FUC/PEA]
	V		35.3	298		[1975KUS/SAI]
	V	(308–368)	34.6	323	A	[1987STE/MAL, 1970VAL/KIL, 1984BOU/FRI]
	V		31.8	374		[1946SPI/PIT]
	V	(299–375)	34.9	314	MM	[1945WIL/TAY]
	V	(273–348)	36.1	288		[1940STU/SAY]
C_7H_{14}	[1638-26-2]	1,1-dimethylcyclopentane				
	TRS		6.49	146.8		
	FUS		1.09	203.7		[1996DOM/HEA, 1953GRO/OLI]
	V	(284–363)	34.0	299	A	[1987STE/MAL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		33.8	298		[1971WIL/ZWO]
	V	(289–362)	33.8	304		[1949FOR/NOR]
C_7H_{14}	[1192-18-3]	*cis*-1,2-dimethylcyclopentane				
	TRS	(12–302)	6.65	141.5		
	FUS	(12–302)	1.66	219.4		[1996DOM/HEA, 1953GRO/OLI]
	V	(293–375)	35.5	308	A	[1987STE/MAL]
	V		35.8	298		[1971WIL/ZWO]
	V	(298–373)	35.2	313		[1949FOR/NOR]
C_7H_{14}	[822-50-4]	(*dl*)-*trans*-1,2-dimethylcyclopentane				
	V	(295–367)	34.2	310	A	[1987STE/MAL]
	V		34.6	298		[1971WIL/ZWO]
	V	(299–366)	34.0	314		[1949FOR/NOR]
C_7H_{14}	[2532-58-3]	*cis*-1,3-dimethylcyclopentane				
	V	(295–366)	34.2	310	A	[1987STE/MAL]
	V		34.3	298		[1971WIL/ZWO]
	V		32.8 ± 0.1	323	C	[1959MCC/PEN]
	V		31.7 ± 0.1	342	C	[1959MCC/PEN]
	V		30.4 ± 0.1	364	C	[1959MCC/PEN]
	V	(299–366)	34.0	314		[1949FOR/NOR]
C_7H_{14}	[1759-58-6]	(*dl*)-*trans*-1,3-dimethylcyclopentane				
	FUS	(13–304)	7.41	139.5		[1996DOM/HEA, 1953GRO/OLI]
	V	(295–367)	34.0	310	A	[1987STE/MAL]
	V		34.5	298		[1971WIL/ZWO]
	V	(291–365)	34.2	306		[1949FOR/NOR]
C_7H_{14}	[1640-89-7]	ethylcyclopentane				
	FUS	(12–302)	6.86	134.7		[1996DOM/HEA, 1953GRO/OLI]
	V	(308–387)	35.5	323	A	[1987STE/MAL]
	V	(386–507)	32.9	401	A	[1987STE/MAL]
	V	(499–569)	31.9	514	A	[1987STE/MAL]
	V		35.6 ± 0.1	313	C	[1981SVO/CHA]
	V		34.8 ± 0.1	328	C	[1981SVO/CHA]
	V		33.9 ± 0.1	343	C	[1981SVO/CHA]
	V		33.0 ± 0.1	358	C	[1981SVO/CHA]
	V		32.5 ± 0.1	368	C	[1981SVO/CHA]
	V		36.5	298		[1971WIL/ZWO]
	V	(302–377)	35.7	317		[1949FOR/NOR]
C_7H_{14}	[592-76-7]	1-heptene				
	FUS (I)	(11–299)	12.40	154.3		
	FUS (II)	(11–299)	12.64	153.9	C	[1957MCC/FIN]
	FUS		12.64	153.4		[1996DOM/HEA, 1936PAR/TOD2]
	V	(311–368)	34.6	326	A	[1987STE/MAL]
	V	(327–367)	33.9	342		[1970EIS/ORA, 1984BOU/FRI]
	V		35.7	298		[1971WIL/ZWO]
	V	(295–318)	35.3	310	MM	[1950FOR/CAM]
	V	(255–312)	35.9	300		[1941LIS]
	V	(273–362)	34.5	288		[1936BEN/CUT]
C_7H_{14}	[6443-92-1]	*cis*-2-heptene				
	V	(276–304)	39.0 ± 0.3	290	GS	[2000VER/WAN]
	V	(276–304)	38.6	298	GS	[2000VER/WAN]
	V	(315–372)	35.3	330	A	[1987STE/MAL]
	V	(332–371)	34.6	347		[1970EIS/ORA, 1984BOU/FRI]
	V		36.0	298		[1971WIL/ZWO]
C_7H_{14}	[14686-13-6]	*trans*-2-heptene				
	V	(314–373)	35.3	329	A	[1987STE/MAL]
	V		36.0	298		[1971WIL/ZWO]
	V	(331–370)	34.6	346		[1970EIS/ORA]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_{14}	[7642-10-6]	*cis*-3-heptene				
	V	(312–369)	35.0	327	A	[1987STE/MAL]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[14686-14-7]	*trans*-3-heptene				
	V	(312–368)	34.6	327	A	[1987STE/MAL]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[6094-02-6]	2-methyl-1-hexene				
	V	(318–390)	33.9	333	A	[1987STE/MAL, 1973DYK/REP]
	V		35.1	298		[1971WIL/ZWO]
C_7H_{14}	[3404-61-3]	(*dl*)-3-methyl-1-hexene				
	V	(311–381)	33.4	326	A	[1987STE/MAL, 1973DYK/REP]
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[3769-23-1]	(*dl*)-4-methyl-1-hexene				
	V	(313–384)	33.6	328	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[3524-73-0]	5-methyl-1-hexene				
	V	(313–393)	33.5	328	A	[1987STE/MAL, 1973DYK/REP]
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[2738-19-4]	2-methyl-2-hexene				
	V	(322–394)	34.0	337	A	[1987STE/MAL, 1973DYK/REP]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[10574-36-4]	*cis*-3-methyl-2-hexene				
	V	(322–396)	34.2	337	A	[1987STE/MAL, 1973DYK/REP]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[20710-38-7]	*trans*-3-methyl-2-hexene				
	V	(321–394)	34.1	336	A	[1987STE/MAL, 1973DYK/REP]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[3683-19-0]	*cis*-4-methyl-2-hexene				
	V	(313–384)	33.5	328	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[3683-22-5]	*trans*-4-methyl-2-hexene				
	V	(314–385)	33.6	329	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[13151-17-2]	*cis*-5-methyl-2-hexene				
	V	(354–372)	32.6	363	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[3683-22-5]	*trans*-5-methyl-2-hexene				
	V	(315–386)	33.6	330	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[15840-60-5]	*cis*-2-methyl-3-hexene				
	V	(262–383)	36.1	277	A	[1987STE/MAL, 1973DYK/REP]
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[692-24-0]	*trans*-2-methyl-3-hexene				
	V	(313–383)	33.5	328	A	[1987STE/MAL, 1973DYK/REP]
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[4914-89-0]	*cis*-3-methyl-3-hexene				
	V	(307–375)	35.4	322	A	[1987STE/MAL]
	V		36.4	298		[1971WIL/ZWO]
	V	(302–368)	35.7	317	MM	[1960CAM/ROS]
C_7H_{14}	[3899-36-3]	*trans*-3-methyl-3-hexene				
	V	(310–368)	34.8	325	A	[1987STE/MAL]
	V		35.8	298		[1971WIL/ZWO]
	V	(300–367)	35.3	315	MM	[1960CAM/ROS]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_{14}	[3404-72-6]	(*dl*)-2,3-dimethylpent-1-ene				
	V	(311–382)	33.4	326	A	[1987STE/MAL, 1973DYK/REP]
C_7H_{14}	[10574-37-5]	2,3-dimethylpent-2-ene				
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[2213-32-3]	2,4-dimethylpent-1-ene				
	V	(311–361)	32.3	326	A	[1987STE/MAL]
	V		33.1	298		[1971WIL/ZWO]
	V	(289–355)	33.2	304	MM	[1960CAM/ROS]
C_7H_{14}	[3404-73-7]	3,3-dimethylpent-1-ene				
	V	(306–374)	33.0	321	A	[1987STE/MAL, 1973DYK/REP]
	V		33.5	298		[1971WIL/ZWO]
C_7H_{14}	[7385-78-6]	(*dl*)-3,4-dimethylpent-1-ene				
	V	(309–378)	33.2	324	A	[1987STE/MAL, 1973DYK/REP]
	V		33.9	298		[1971WIL/ZWO]
C_7H_{14}	[762-62-9]	4,4-dimethylpent-1-ene				
	V	(299–347)	31.0	314	A	[1987STE/MAL]
	V		31.2	298		[1971WIL/ZWO]
	V	(290–346)	31.0	315	MM	[1960CAM/ROS]
C_7H_{14}	[10574-37-5]	2,3-dimethylpent-2-ene				
	V	(322–396)	34.2	337	A	[1987STE/MAL, 1973DYK/REP]
	V		35.6	298		[1971WIL/ZWO]
C_7H_{14}	[625-65-0]	2,4-dimethylpent-2-ene				
	V	(276–297)	35.2 ± 1.5	286	GS	[2000VER/WAN]
	V	(276–297)	34.5 ± 1.5	298	GS	[2000VER/WAN]
	V	(286–363)	34.5	301	A	[1987STE/MAL]
	V		34.3	298		[1971WIL/ZWO]
	V	(292–357)	34.2	307	MM	[1960CAM/ROS]
C_7H_{14}	[4914-91-4]	*cis*-3,4-dimethylpent-2-ene				
	V	(316–387)	33.7	331	A	[1987STE/MAL, 1973DYK/REP]
	V		34.7	298		[1971WIL/ZWO]
C_7H_{14}	[4914-92-5]	*trans*-3,4-dimethylpent-2-ene				
	V	(317–390)	33.9	332	A	[1987STE/MAL, 1973DYK/REP]
	V		35.1	298		[1971WIL/ZWO]
C_7H_{14}	[762-63-0]	*cis*-4,4-dimethylpent-2-ene				
	V	(303–355)	32.2	318	A	[1987STE/MAL]
	V		32.6	298		[1971WIL/ZWO]
	V	(291–354)	32.6	306	MM	[1960CAM/ROS]
C_7H_{14}	[690-08-4]	*trans*-4,4-dimethylpent-2-ene				
	V	(295–352)	32.8	310	A	[1987STE/MAL]
	V		32.8	298		[1971WIL/ZWO]
	V	(289–350)	33.0	304	MM	[1960CAM/ROS]
C_7H_{14}	[7357-93-9]	2-ethyl-3-methyl-1-butene				
	V	(303–381)	33.8	318	A	[1987STE/MAL]
	V		34.3	298		[1971WIL/ZWO]
	V	(290–360)	34.4	305	MM	[1960CAM/ROS]
C_7H_{14}	[3404-71-5]	2-ethyl-1-pentene				
	V	(267–392)	36.6	282	A	[1987STE/MAL, 1973DYK/REP]
	V		35.1	298		[1971WIL/ZWO]
C_7H_{14}	[4038-04-4]	3-ethyl-1-pentene				
	V	(311–382)	33.4	326	A	[1987STE/MAL, 1973DYK/REP]
	V		34.3	298		[1971WIL/ZWO]
C_7H_{14}	[816-79-5]	3-ethyl-2-pentene				
	V	(321–395)	34.1	336	A	[1987STE/MAL, 1973DYK/REP]
	V		35.6	298		[1971WIL/ZWO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_7H_{14}	[594-56-9]	2,3,3-trimethyl-1-butene				
	V	(288–353)	32.4	303	A	[1987STE/MAL]
	V		34.3	298		[1971WIL/ZWO]
	V	(288–351)	32.1	303	MM	[1960CAM/ROS]
$C_7H_{14}Br_2$	[59104-79-9]	1,1-dibromoheptane				
	V	(395–548)	54.4	410	A, E	[1987STE/MAL, 1956MAN, 1970DYK/VAN]
$C_7H_{14}Br_2$	[42474-21-5]	(*dl*)-1,2-dibromoheptane				
	V	(295–553)	52.9	310	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO]
	V	(295–355)	54.4	300		[1941LIS]
$C_7H_{14}Cl_2$	[821-25-0]	1,1-dichloroheptane				
	V	(375–460)	53.5	298		[1987VAR/LOS2, 1991BAS/SVO]
	V	(364–510)	48.4	379	A, E	[1987STE/MAL, 1956MAN, 1970DYK/VAN]
$C_7H_{14}Cl_2$	[10575-87-8]	1,2-dichloroheptane				
	V	(353–466)	49.0	368		[1999DYK/SVO]
	V	(350–470)	53.2	298		[1982VAR/PUC, 1991BAS/SVO]
$C_7H_{14}Cl_2$	[821-76-1]	1,7-dichloroheptane				
	V	(406–491)	52.3	421		[1999DYK/SVO]
	V	(410–490)	61.2	298		[1988VAR/LOS, 1991BAS/SVO]
$C_7H_{14}F_2$	[407-96-5]	1,1-difluoroheptane				
	V	(311–424)	41.1	326	A, E	[1987STE/MAL, 1956MAN, 1970DYK/VAN]
$C_7H_{14}NO_5P$	[6923-22-4]	dimethyl (*E*)-1-methyl-2-methylcarbamoylvinyl phosphate				
	FUS		22.36	326.9	DSC	[1990DON/DRE]
$C_7H_{14}N_2$	[5351-04-2]	3-(diethylamino)propionitrile				
	V	(338–470)	53.7	353	A	[1987STE/MAL]
$C_7H_{14}N_2$	[82215-74-5]	2-(diethylamino)propionitrile				
	V	(278–315)	50.8 ± 0.3		GS	[1997WEL/VER]
$C_7H_{14}N_2$	[2721-31-5]	3,3,5,5-tetramethyl-1-pyrazoline				
	SUB		61.6 ± 0.2	298		[1976ENG/MEL]
$C_7H_{14}N_2O_2$	[37933-88-3]	*N*-acetyl L-valinamide				
	FUS		39.1	509	DSC	[1997ABA/PAL]
	FUS		41.3	509.0	DSC	[1990PUL/MAT]
	SUB		129.8 ± 1.9	376	C	[1999DEL/BAR]
	SUB		133.1 ± 2.2	298		[1999DEL/BAR]
	SUB	(391–425)	126 ± 2.0	418	TE	[1990PUL/MAT]
$C_7H_{14}N_2O_2$		*N*-acetyl-DL-α-aminobutyric acid-*N*′-methylamide				
	FUS		24.71	434.8	DSC	[2014BAD/DEL]
$C_7H_{14}N_2O_2$	[1740-56-3]	pimelamide				
	FUS		44.56	446.8	DSC	[2006BAD/DEL]
$C_7H_{14}N_2O_2S$	[116-06-3]	2-methyl-2(methylthio)propanal, *O*-[(methylamino)carbonyl]oxime				
	FUS		22.71	374	DSC	[1990DON/DRE]
	SUB	(298–323)	80.0	310	ME	[1987STE/MAL]
$C_7H_{14}O$	[5063-65-0]	1,2-epoxyheptane				
	V	(305–414)	45.5	320	A	[1987STE/MAL, 1970VOJ/CIH]
$C_7H_{14}O$	[502-41-0]	cycloheptanol				
	TRS		0.45	227.9		
	TRS		0.78	250.4		
	FUS		1.51	278.3	MDSC	[2003RUT/SAL]
	TRS		2.93	172.2		
	TRS		0.55	227.3		
	TRS		0.88	258.4		
	FUS		1.6	280.3		[1996DOM/HEA, 1972ADA/SUG]
	V	(284–323)	64.7	299	A	[1987STE/MAL]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(284–321)	67.4	299		[1975CAB/CON2]
$C_7H_{14}O$	[590-67-0]	1-methylcyclohexanol				
	FUS	(5–320)	14.32	299.4	AC	[1998KAB/BLO]
	FUS		10.87	299.2		[1985WIB/WAS]
	SUB		75.9 ± 0.4	291	C	[1998KAB/BLO]
	V	(340–430)	49.1	355	A	[1987STE/MAL]
$C_7H_{14}O$	[583-59-5]	2-methylcyclohexanol				
	V	(361–439)	51.7	376	EB	[2007PAL/ORA]
	V	(323–373)	63.3	298	CGC	[1995CHI/HOS]
$C_7H_{14}O$	[7443-70-1]	*cis*-2-methylcyclohexanol				
	V		61.8			[1975VIL/PER]
$C_7H_{14}O$	[591-23-1]	3-methylcyclohexanol				
	V	(323–373)	65.5	298	CGC	[1995CHI/HOS]
$C_7H_{14}O$	[24965-90-0]	(*dl*)-*cis*-3-methylcyclohexanol				
	V	(340–450)	54.3	355	A	[1987STE/MAL]
$C_7H_{14}O$	[23068-71-5]	(*dl*)-*trans*-3-methylcyclohexanol				
	V	(350–450)	50.0	365	A	[1987STE/MAL]
$C_7H_{14}O$	[589-91-3]	4-methylcyclohexanol				
	V	(323–373)	65.9	298	CGC	[1995CHI/HOS]
$C_7H_{14}O$	[7731-28-4]	*cis*-4-methylcyclohexanol				
	V	(340–450)	49.9	355	A	[1987STE/MAL]
$C_7H_{14}O$	[7731-29-5]	*trans*-4-methylcyclohexanol				
	V	(340–350)	52.1	355	A	[1987STE/MAL]
$C_7H_{14}O$	[1462-96-0]	1-ethyl-1-cyclopentanol				
	V	(347–426)	58.4	362	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_{14}O$	[110-43-0]	2-heptanone				
	FUS		19.71	237.7	TCC	[1996FIE/JOH]
	V	(343–383)	46.1	298	CGC	[1995CHI/HOS]
	V	(343–383)	48.5	298	CGC	[1995CHI/HOS]
	V	(303–424)	47.5	318	A	[1987STE/MAL]
	V	(449–480)	39.1	464	A	[1987STE/MAL]
	V		46.1 ± 0.7	298	C	[1981GAT/STR]
	V		47.4 ± 0.3	298	GCC	[1979SAL/PEA]
	V		47.2 ± 0.1	298	C	[1979SUN/SVE2]
	V	(327–457)	44.7	342	A	[1987STE/MAL, 1975AMB/ELL]
	V		48.0	298		[1975AMB/ELL]
$C_7H_{14}O$	[123-19-3]	3-heptanone				
	FUS		17.53	236	TCC	[1996FIE/JOH]
$C_7H_{14}O$	[123-19-3]	4-heptanone				
	FUS		16.16	240.2	TCC	[1996FIE/JOH]
	V	(343–383)	47.8	298	CGC	[1995CHI/HOS]
	V		46.2 ± 0.4	298	GCC	[1979SAL/PEA]
	V	(304–490)	45.5	319	A	[1987STE/MAL, 1975AMB/ELL]
	V		46.7	298		[1975AMB/ELL]
	V	(296–417)	57.5	311	A	[1987STE/MAL, 1947STU]
	V	(283–323)	40.7	303		[1937RIN/SAY]
$C_7H_{14}O$	[7379-12-6]	2-methyl-3-hexanone				
	V	(296–406)	41.3	311	A	[1987STE/MAL]
$C_7H_{14}O$	[564-04-5]	2,2-dimethyl-3-pentanone				
	V		42.3 ± 0.1	298	C	[1970SEL2]
	V		42.3 ± 0.1	298	C	[1966WAD]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{14}O$	[565-80-0]	2,4-dimethyl-3-pentanone				
	FUS	(11–319)	11.2	204.8	AC	[1996DOM/HEA, 1970AND/COU]
	V		43.4 ± 0.5	298	C	[1981GAT/STR]
	V	(321–399)	39.4	336	A	[1987STE/MAL, 1973DYK/REP]
	V		41.6 ± 0.1	298	C	[1970SEL2]
	V		41.5 ± 0.1	298	C	[1966WAD]
$C_7H_{14}O$	[111-71-7]	heptanal				
	FUS		22.89	229.3		[1980DYA/VAS]
	V	(313–353)	48.7	298	CGC	[1995CHI/HOS]
	V		47.3 ± 0.1	298		[1981DYA/KOR]
	V		48.0 ± 1.3	298	EB	[1960NIC, 2003VER/KRA2]
	V	(285–428)	62.0	300		[1947STU]
$C_7H_{14}O$	[19269-28-4]	3-methylhexanal				
	V	(314–417)	42.8	329	EB	[1987MIL/FEN]
$C_7H_{14}O$	[19353-21-0]	3,4-dimethylpentanal				
	V	(319–417)	42.4	334	EB	[1987MIL/FEN]
$C_7H_{14}O_2$	[931-94-2]	1,1-dimethoxycyclopentane				
	V	(278–318)	44.5 ± 0.3	298	GS	[1998VER/PEN, 2002VER]
	V	(307–343)	46.1	325	EB	[1994WIB/MOR]
$C_7H_{14}O_2$	[629-33-4]	hexyl formate				
	V	(275–313)	50.3	294	GS	[2012SAM/NAZ]
	V	(275–313)	50.0 ± 0.3	298	GS	[2012SAM/NAZ]
$C_7H_{14}O_2$	[106-70-7]	methyl hexanoate				
	V		47.4 ± 1.6	298	CGC	[2015KOZ/GOB]
	V	(281–331)	48.4 ± 0.2	298	GS	[2008VER/EME]
	V		45.2	350		[2002VAN/VAN]
	V		46.4 ± 0.1	325		[2002VAN/VAN]
	V		47.7 ± 0.1	298		[2002VAN/VAN]
	V	(313–363)	47.9	298	CGC	[1995CHI/HOS]
	V	(313–353)	48.2	298	CGC	[1995CHI/HOS]
	V		47.8 ± 0.5	298	GC	[1987AZA]
	V		48.7 ± 0.3	298	GCC	[1980FUC/PEA]
	V		48.0 ± 0.1	298	C	[1977MAN/SEL]
	V	(315–383)	45.3	330	A	[1987STE/MAL, 1963ROS/SCH]
$C_7H_{14}O_2$	[590-01-2]	butyl propanoate				
	V	(382–425)	40.3	400		[2005ORT/ESP]
	V	(350–450)	40.9	375	EB	[1995GON/ORT]
	V	(305–417)	49.1	320	A	[1987STE/MAL]
	V	(305–365)	47.4	320	EB	[1959USA/DEM2, 1984BOU/FRI]
	V	(305–365)	50.4 ± 0.2	298	EB	[1959USA/DEM2, 2012SAM/NAZ]
	V		39.1 ± 0.4	418	C	[1926MAT]
	V		48.5 ± 0.4	298	C	[1926MAT, 2012SAM/NAZ]
$C_7H_{14}O_2$	[3938-95-2]	ethyl pivalate				
	V	(308–429)	39.8 ± 0.1	320	EB	[2002STE/CHI4]
	V	(308–429)	36.9 ± 0.2	360	EB	[2002STE/CHI4]
	V	(308–429)	33.8 ± 0.6	400	EB	[2002STE/CHI4]
	V		41.3 ± 0.1	298	C	[1966WAD]
$C_7H_{14}O_2$	[539-82-2]	ethyl valerate				
	FUS	(5–370)	12.97	181.3	AC	[2011AGA/VAR]
	V		48.2 ± 0.7	298	EB	[2011AGA/VAR]
	V		47.0 ± 0.1	298	C	[1986NIL/WAD]
$C_7H_{14}O_2$	[108-64-5]	ethyl isovalerate				
	V	(301–418)	42.8	316	A	[1987STE/MAL]
	V	(267–407)	44.5	282		[1947STU]
$C_7H_{14}O_2$	[540-42-1]	isobutyl propionate				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(271–410)	44.9	286	A	[1987STE/MAL, 1947STU]
$C_7H_{14}O_2$	[123-92-2]	isopentyl acetate				
	V	(226–442)	46.4	300		[1999DIA/GUE]
	V	(278–305)	46.8 ± 0.2	292	GS	[1999VER/HEI]
	V	(278–305)	46.4 ± 0.2	298	GS	[1999VER/HEI]
	V	(308–424)	44.3	323	A	[1987STE/MAL]
	V	(313–368)	45.1	328		[1959TER/BRI, 1984BOU/FRI]
$C_7H_{14}O_2$	[617-50-5]	isopropyl isobutyrate				
	V	(257–394)	43.3	272	A	[1987STE/MAL, 1947STU]
$C_7H_{14}O_2$	[107-70-0]	4-methoxy-4-methyl-2-pentanone				
	V	(343–423)	45.0	358	A	[1987STE/MAL]
$C_7H_{14}O_2$	[10250-48-3]	methyl *tert*-butylacetate				
	V	(274–313)	43.9 ± 0.2	298	GS	[2008VER/EME]
	V	(274–313)	44.4 ± 0.2	298	GS	[1996VER/BEC]
$C_7H_{14}O_2$	[926-41-0]	neopentyl acetate				
	V	(301–400)	49.1	316	A	[1987STE/MAL, 1940QUA/NOR]
$C_7H_{14}O_2$	[625-16-1]	*tert*-pentyl acetate				
	V	(274–308)	40.3	298	GS	[2008VER/EME]
	V		42.8	298	CGC	[1999VER/HEI]
	V	(274–308)	42.8 ± 0.3	298	GS	[1996VER/BEC]
$C_7H_{14}O_2$	[628-63-7]	pentyl acetate				
	V	(274–328)	48.5	301	GS	[2012SAM/NAZ]
	V	(274–328)	48.0 ± 0.2	298	GS	[2012SAM/NAZ]
	V	(321–462)	48.6 ± 0.4	298	EB	[1996STE/CHI]
	V	(329–423)	43.2	344	A	[1987STE/MAL]
	V	(330–380)	45.0	355	DTA	[1941DAV, 2012SAM/NAZ]
	V	(330–380)	49.3	298	DTA	[1941DAV, 2012SAM/NAZ]
$C_7H_{14}O_2$	[105-66-8]	propyl butyrate				
	V	(390–430)	39.6	405		[1995ORT/GAL]
	V	(355–416)	42.0	370		[1993FAR/WIC]
	V	(271–416)	44.3	286	A	[1987STE/MAL, 1947STU]
$C_7H_{14}O_2$	[644-49-5]	propyl isobutyrate				
	V	(267–407)	50.5	282	A	[1987STE/MAL, 1947STU]
$C_7H_{14}O_2$	[7452-79-1]	ethyl 2-methylbutanoate				
	V	(362–430)	40.1	380		[2014MEN/BEJ]
	V	(288–308)	44.7 ± 0.3	298	GS	[1992VER/BEC]
$C_7H_{14}O_2$	[2426-08-6]	butyl glycidyl ether				
	V		53.3 ± 0.4			[1987VAN/KAC]
$C_7H_{14}O_2$	[7665-72-7]	*tert*-butyl glycidyl ether				
	V		50.2 ± 0.4			[1987VAN/KAC]
$C_7H_{14}O_2$	[696-79-7]	2,2,4-trimethyl-1,3-dioxane				
	V		41.9 ± 1.2	298		[1967PIH/HEI]
$C_7H_{14}O_2$	[4352-98-1]	2-methyl-2-propyl-1,3-dioxolane				
	V	(278–313)	46.3 ± 0.3	298	GS	[1998VER/PEN, 2002VER]
$C_7H_{14}O_2$	[4405-16-7]	2-methyl-2-isopropyl-1,3-dioxolane				
	V	(274–303)	43.9 ± 0.2	298	GS	[2002VER]
	V	(273–303)	44.6 ± 0.2	298	GS	[1998VER/PEN]
$C_7H_{14}O_2$	[3814-55-9]	[(1-methylpropoxy)methyl]oxirane				
	V		45.2 ± 1.8			[1987VAN/KAC]
$C_7H_{14}O_2$	[111-14-8]	heptanoic acid				
	TRS		2.16	220		
	FUS		15.13	266		[1996DOM/HEA, 1991LAB/WES]
	TRS	(105–305)	2.04	224.8		

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS	(105–305)	15.44	265.8	AC	[1996DOM/HEA, 1982SCH/VAN2]
	V	(413–453)	69.0	428		[2004CLI/RAM]
	V	(283–328)	72.5 ± 0.8	306	GS	[2000VER2]
	V	(283–328)	72.9 ± 0.8	298	GS	[2000VER2]
	V	(353–393)	75.7	298	CGC	[1995CHI/HOS]
	V		76.0	266		[1982DEK/SCH]
	V	(271–291)	72.0 ± 1.5	298	TE	[1979DEK/OON]
	V	(351–495)	68.3	366	A	[1987STE/MAL, 1947STU]
$C_7H_{14}O_3$	[33415-52-0]	*tert*-butylperoxymethyloxirane				
	V		53.9 ± 0.4			[1987VAN/KAC]
$C_7H_{14}O_3$	[20706-25-6]	2-propoxyethylacetate				
	V		55.6 ± 0.1	298	C	[1970KUS/WAD]
$C_7H_{14}O_3$	[138-22-7]	(*dl*)-butyl lactate				
	V	(303–378)	53.2	318		[2014LOM/GIN]
	V	(391–460)	49.9	406		[2005PEN/MUR]
	V	(339–456)	58.7	354	A	[1987STE/MAL, 1950REH/DIX]
$C_7H_{14}O_3$	[763-69-9]	3-ethoxypropionic acid, ethyl ester				
	V	(312–446)	45.5	327	A	[1987STE/MAL, 1948DIX/REH]
$C_7H_{14}O_3$		1-heptene ozonide				
	V	(353–373)	44.4	363	A	[1987STE/MAL, 1977BOL/MAK]
$C_7H_{14}O_3$	[2018-45-3]	4-(2-hydroxyethyl)-4-methyl-1,3-dioxane				
	V	(329–455)	51.7	344	A	[1987STE/MAL]
$C_7H_{14}O_3$	[34451-19-9]	3-hydroxypropionic acid, butyl ester				
	V	(361–382)	60.3	371	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_{14}O_3$	[5349-56-4]	3-methoxypropionic acid, propyl ester				
	V	(323–433)	47.0	338	A	[1987STE/MAL]
$C_7H_{14}O_3$	[14144-39-9]	3-propoxypropionic acid, methyl ester				
	V	(323–453)	46.6	338	A	[1987STE/MAL]
$C_7H_{14}O_3$	[557-25-5]	(*dl*)-butyric acid, 2,3-dihydroxypropyl ester				
	V	(392–449)	80.4	407	A	[1987STE/MAL]
$C_7H_{14}O_3$	[14620-87-2]	2-butoxypropionic acid				
	V	(373–473)	52.8	388	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_{14}O_3$	[623-96-1]	dipropyl carbonate				
	V	(274–318)	53.2 ± 0.3	298	GS	[2008KOZ/EME]
$C_7H_{14}O_6$	[13224-94-7]	3-methoxy-α-(D)-glucopyranoside				
	FUS		41.3	425.6	DSC	[1996SCH]
$C_7H_{14}O_6$	[617-04-9]	methyl α-(D)-mannopyranoside				
	FUS		44.7	455.2	DSC	[1996SCH]
$C_7H_{14}O_6$	[97-30-3]	methyl-α-(D)-glucopyranoside				
	FUS		28.04	442.3	DSC	[2016YAN/WAN]
	FUS		35.11	436	DSC	[2000AGU/GUA]
	FUS		37.6	424.2	DSC	[1996SCH]
$C_7H_{14}O_6$	[709-50-2]	methyl-β-(D)-glucopyranoside				
	FUS		27.03	384.9	DSC	[2000AGU/GUA]
$C_7H_{14}O_6$	[3396-99-4]	methyl-α-(D)-galactopyranoside				
	FUS		27.95	397.6	DSC	[2000AGU/GUA]
$C_7H_{14}O_6$	[1824-94-8]	methyl-β-(D)-galactopyranoside				
	FUS		33.18	450.9	DSC	[2000AGU/GUA]
$C_7H_{14}S$	[37850-75-2]	allyl *tert*-butyl sulfide				
	V	(319–339)	41.9	332		[1999DYK/SVO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(319–339)	43.1	329	A, EB	[1987STE/MAL, 1962MAC/MAY3]
	V	(319–339)	44.8	298	EB	[1962MAC/MAY3]
$C_7H_{15}Br$	[629-04-9]	1-bromoheptane				
	FUS		21.76	214.4		[1950CRO/SMY]
	V	(341–481)	47.0	356		[1999DYK/SVO]
	V	(323–363)	50.2	298	CGC	[1995CHI/HOS]
	V		50.8 ± 0.1	298	C	[1968WAD]
	V		50.4 ± 0.2	298	C	[1966WAD]
	V	(333–483)	47.5	348	A, E	[1987STE/MAL, 1961LI/ROS]
$C_7H_{15}Br$	[1974-04-5]	(*dl*)-2-bromoheptane				
	V	(333–440)	45.0	348	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_{15}Cl$	[629-06-1]	1-chloroheptane				
	V	(326–462)	45.1	341		[1999DYK/SVO]
	V	(313–353)	47.9	298	CGC	[1995CHI/HOS]
	V	(300–430)	47.0	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(307–434)	46.9	322	A, DTA	[1987STE/MAL, 1969KEM/KRE]
	V		47.7 ± 0.1	298	C	[1968WAD]
$C_7H_{15}Cl$	[1001-89-4]	(*dl*)-2-chloroheptane				
	V	(313–424)	44.8	328	A	[1987STE/MAL, 1999DYK/SVO]
$C_7H_{15}Cl_2N$	[52802-03-6]	*N*-methyl-bis(2-chloropropyl)amine				
	V	(273–333)	54.6	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1973DYK/REP]
$C_7H_{15}Cl_2N$	[621-68-1]	*N*-propyl-bis(2-chloroethyl)amine				
	V	(273–369)	56.8	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1973DYK/REP]
$C_7H_{15}Cl_2N_2O_2P$	[50-18-0]	2-[bis(2-chloroethyl)amino]tetrahydro-2*H*-1,3,2-oxazophosphorine-2-oxide				
	FUS		33.13	322.6	DSC	[1990DON/DRE]
$C_7H_{15}F$	[661-11-0]	1-fluoroheptane				
	V	(294–416)	40.3	309		[1999VER2]
	V	(287–417)	40.8	302	A, E	[1987STE/MAL, 1961LI/ROS]
$C_7H_{15}I$	[4282-40-0]	1-iodoheptane				
	V	(373–513)	55.0	298		[2006BOL/NER, 1961LI/ROS]
	V	(373–513)	47.8	388	A, E	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN]
$C_7H_{15}N$	[100-60-7]	*N*-methylcyclohexylamine				
	V	(275–314)	46.6 ± 0.2	295	EB	[2015VER/EME3]
	V	(275–314)	46.4 ± 0.3	298	EB	[2015VER/EME3]
$C_7H_{15}N$	[766-09-6]	*N*-ethylpiperidine				
	V	(274–313)	41.1 ± 0.6	294	GS	[1998VER6]
	V	(274–313)	40.8 ± 0.6	298	GS	[1998VER6]
$C_7H_{15}N$	[766-09-6]	1-ethylpiperdine				
	V		39.4 ± 0.7	298	C	[2006RIB/CAB6]
$C_7H_{15}N$	[1484-80-6]	2-ethylpiperdine				
	V		42.2 ± 0.9	298	C	[2006RIB/CAB6]
$C_7H_{15}N$	[766-17-6]	*cis*-2,6-dimethylpiperidine				
	V		43.1 ± 2.1	298	CGC	[2014THO/GOB]
	V	(295–365)	39.7 ± 0.1	330		[2009MOK/RAZ]
	V	(295–365)	41.3 ± 0.1	298		[2009MOK/RAZ]
	V		42.4 ± 0.6	298	C	[2006RIB/CAB5]
[Note: The authors indicate that the compound is *cis*-2,6-dimethylpiperidine; however they give the CAS registry number of 504-03-0 (which does not specify *cis*- or *trans*-isomer).]						
$C_7H_{15}N$	[35794-11-7]	3,5-dimethylpiperidine				
	V		49.1 ± 0.6	298	C	[2006RIB/CAB5]
$C_7H_{15}N$	[1121-92-2]	octahydroazocine				

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(273–313)	46.5	288	A	[1987STE/MAL]
$C_7H_{15}NO$	[3040-44-6]	1-piperidineethanol				
	V		64.2 ± 0.8	298	C	[2006RIB/CAB4]
$C_7H_{15}NO$	[1484-84-0]	2-piperidineethanol				
	V		75.2 ± 0.5	298	C	[2006RIB/CAB4]
$C_7H_{15}NO$	[20845-34-5]	1-methyl-2-piperidinemethanol				
	V		68.2 ± 0.7	298	C	[2006RIB/CAB4]
$C_7H_{15}NO$	[13444-24-1]	1-ethyl-3-piperidinol				
	V		68.5 ± 0.8	298	C	[2006RIB/CAB2]
$C_7H_{15}NO$	[24331-71-3]	*N*, *N*-dimethyl-*tert*-butylcarboxamide				
	V		55.1 ± 0.4	298	ME	[1995ABB/JIM, 1993ABB/JIM]
$C_7H_{15}NO$	[1620-14-0]	1-(diethylamino)-2-propanone				
	V	(278–318)	47.7 ± 0.3	298	GS	[1994WEL/VER]
$C_7H_{15}NO$	[628-62-6]	heptanamide (enanthamide)				
	TRS		7.5	319.0		
	TRS		3.4	356.1		
	FUS		16.2	368.6	DSC	[2013GUT/RAT]
	SUB	(345–365)	99.6			[1954SER/VOI, 1960JON, 1987STE/MAL]
	V		82.3 ± 5.4	298	CGC	[2013GUT/RAT]
$C_7H_{15}NO$	[140653-59-4]	methyl 2-(*N*, *N*-dimethylamino)-2-methylpropanoate				
	V	(278–308)	49.2 ± 1.0	293	GS	[1992VER/BEC]
$C_7H_{15}NO_2$	[3328-88-9]	lactic acid *N*-butylamide				
	V	(365–433)	77.4	380	A	[1987STE/MAL, 1950RAT]
$C_7H_{15}NO_2$	[5422-35-5]	lactic acid *N*-*sec*-butylamide				
	V	(368–418)	74.6	383	A	[1987STE/MAL, 1950RAT/FIS]
$C_7H_{15}NO_2$	[5422-36-6]	lactic acid *N*-isobutylamide				
	V	(388–418)	73.5	403	A	[1987STE/MAL, 1950RAT/FIS]
$C_7H_{15}NO_2$	[2666-93-5]	(*l*) leucine methyl ester				
	V	(320–353)	39.4	366	A	[1987STE/MAL]
$C_7H_{15}NO_2$	[2114-20-7]	hexyl carbamate				
	SUB	(291–314)	96.2 ± 0.8		ME	[1959DAV/JON]
$C_7H_{15}NO_4$	[69567-10-8]	*N*-methyl-5-amino-1,5-dideoxy-(D)-glycopyranose				
	FUS		27.5	425.7	DSC	[1994BLU/PRA]
C_7H_{16}	[142-82-5]	heptane				
	FUS	(5–350)	14.05	182.5	AC	[2011BIS/GOG]
	FUS		13.99	182.6	AC	[1987VAN/VAN]
	FUS		14.05	182.6	AC	[1979SCH/OFF]
	FUS		14.06	182.7		[1977MEI/BLO]
	FUS	(155–270)	14.06	182.56	AC	[1972VAN]
	FUS		14.03	182.6		[1963OET]
	FUS		14.04	182.6		[1996DOM/HEA, 1961HUF/GRO, 1961MCC/MES]
	FUS		14.06	182.6	C	[1955TUN/STO]
	FUS	(20–370)	14.02	182.6	AC	[1954DOU/FUR]
	FUS		14.04	182.5		[1940PIT]
	FUS		14.16	182.2		[1930PAR/HUF]
	SUB		57.9	183	B	[1963BON]
	V	(319–371)	35.4	325		[2011MEJ/SEG]
	V	(330–371)	34.7	345		[2002SEG/WIS]
	V	(328–393)	35.2	343		[2001ORT/GON]
	V		36.6	298		[1994RUZ/MAJ]
	V	(298–363)	36.1	313		[1984SIP/WIE]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(298–338)	36.1	313		[1984MIC/JOS]
	V	(316–371)	35.3	331	EB	[1983PAL/CHO]
	V		36.6 ± 0.1	298	C	[1979MAJ/SVO]
	V		35.6 ± 0.1	313	C	[1979MAJ/SVO]
	V		34.4 ± 0.1	333	C	[1979MAJ/SVO]
	V		33.1 ± 0.1	353	C	[1979MAJ/SVO]
	V	(278–353)	36.9	298		[1979JAK/TZI]
	V		36.55	298		[1971WIL/ZWO]
	V	(333–371)	34.5	350		[1971LET/BAY]
	V	(288–348)	36.4	303		[1967VAN/SOC]
	V	(297–375)	36.1	312	A	[1987STE/MAL, 1949FOR/NOR]
	V		34.5 ± 0.1	331	C	[1947WAD/TOD]
	V		33.2 ± 0.1	350	C	[1947WAD/TOD]
	V	(313–398)	35.4	328		[1946THO]
	V	(299–372)	36.0	314	MM	[1945WIL/TAY]
	V		32.0	371	C	[1940PIT]
	V	(310–397)	35.5	325	EB	[1940SMI]
C_7H_{16}	[591-76-4]	2-methylhexane				
	FUS		9.18	154.9		[1996DOM/HEA, 1961HUF/GRO]
	V	(296–365)	34.6	311	A	[1987STE/MAL]
	V		34.9 ± 0.1	298	C	[1979MAJ/SVO]
	V		33.9 ± 0.1	313	C	[1979MAJ/SVO]
	V		32.7 ± 0.1	333	C	[1979MAJ/SVO]
	V		31.3 ± 0.1	353	C	[1979MAJ/SVO]
	V		34.8	298		[1971WIL/ZWO]
	V	(273–318)	34.8	298		[1961HUF/GRO]
	V	(291–364)	34.8	306		[1949FOR/NOR]
C_7H_{16}	[589-34-4]	(*dl*)-3-methylhexane				
	V	(289–366)	35.1	304	A	[1987STE/MAL]
	V		35.1 ± 0.1	298	C	[1979MAJ/SVO]
	V		34.2 ± 0.1	313	C	[1979MAJ/SVO]
	V		32.9 ± 0.1	333	C	[1979MAJ/SVO]
	V		31.7 ± 0.1	353	C	[1979MAJ/SVO]
	V		35.1	298		[1971WIL/ZWO]
	V	(293–366)	34.9	308		[1949FOR/NOR]
C_7H_{16}	[590-35-2]	2,2-dimethylpentane				
	FUS		5.82	149.4		[1961HUF/GRO]
	FUS		5.86	148.1		[1991ACR, 1983WEA, 1930HUF/PAR]
	V		32.4 ± 0.1	298	C	[1998SVO/HYN]
	V		31.8 ± 0.1	308	C	[1998SVO/HYN]
	V		31.4 ± 0.1	315	C	[1998SVO/HYN]
	V		31.0 ± 0.1	323	C	[1998SVO/HYN]
	V		30.5 ± 0.1	330	C	[1998SVO/HYN]
	V		30.1 ± 0.1	338	C	[1998SVO/HYN]
	V		29.4 ± 0.1	348	C	[1998SVO/HYN]
	V		28.8 ± 0.1	358	C	[1998SVO/HYN]
	V		28.1 ± 0.1	368	C	[1998SVO/HYN]
	V	(277–354)	33.2	292	A	[1987STE/MAL]
	V	(353–483)	30.1	368	A	[1987STE/MAL]
	V	(285–353)	32.8	300		[1949FOR/NOR]
	V		32.4 ± 0.1	298	C	[1947OSB/GIN]
	V		32.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(288–353)	32.6	303	MM	[1945WIL/TAY]
C_7H_{16}	[565-59-3]	(*dl*)-2,3-dimethylpentane				
	V	(309–371)	33.0	324		[1999MON/DEL]
	V	(208–286)	35.9	271	A	[1987STE/MAL]
	V		34.3 ± 0.1	298	C	[1979MAJ/SVO]
	V		33.4 ± 0.1	313	C	[1979MAJ/SVO]
	V		32.2 ± 0.1	333	C	[1979MAJ/SVO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		31.1 ± 0.1	353	C	[1979MAJ/SVO]
	V	(286–365)	34.5	301		[1987STE/MAL, 1973DYK/REP]
	V	(291–364)	34.4	306		[1949FOR/NOR]
	V		34.2 ± 0.1	298	C	[1947OSB/GIN]
C_7H_{16}	[108-08-7]	2,4-dimethylpentane				
	FUS		6.85	154.0		[1996DOM/HEA, 1961HUF/GRO]
	FUS		6.69	152.2		[1996DOM/HEA, 1930HUF/PAR]
	V		32.7 ± 0.1	298	C	[1998SVO/HYN]
	V		32.3 ± 0.1	308	C	[1998SVO/HYN]
	V		31.9 ± 0.1	315	C	[1998SVO/HYN]
	V		31.5 ± 0.1	323	C	[1998SVO/HYN]
	V		31.0 ± 0.1	330	C	[1998SVO/HYN]
	V		30.6 ± 0.1	338	C	[1998SVO/HYN]
	V		30.0 ± 0.1	348	C	[1998SVO/HYN]
	V	(284–355)	33.3	299	A	[1987STE/MAL, 1973DYK/REP]
	V	(287–354)	33.2	302		[1949FOR/NOR]
	V		32.9 ± 0.1	298	C	[1947OSB/GIN]
C_7H_{16}	[562-49-2]	3,3-dimethylpentane				
	FUS (I)		7.64	138.2		
	FUS (II)		6.85	138.8	AC	[1996DOM/HEA, 1976FIN/MES]
	FUS		7.07	138.2		[1930HUF/PAR]
	V	(213–281)	34.8	266		[1987STE/MAL]
	V	(280–360)	33.6	295		[1987STE/MAL]
	V		33.0 ± 0.1	298	C	[1981HOS/SCO2]
	V		33.0	298		[1971WIL/ZWO]
	V	(287–360)	33.2	302		[1949FOR/NOR]
	V		33.0 ± 0.1	298	C	[1947OSB/GIN]
	V	(285–360)	33.3	300	MM	[1987STE/MAL, 1945WIL/TAY]
C_7H_{16}	[617-78-7]	3-ethylpentane				
	FUS		9.55	154.6		[1996DOM/HEA, 1961HUF/GRO]
	FUS		9.46	154.3		[1996DOM/HEA, 1930HUF/PAR]
	V		35.1 ± 0.1	298	C	[1998SVO/HYN]
	V		34.5 ± 0.1	308	C	[1998SVO/HYN]
	V		34.1 ± 0.1	315	C	[1998SVO/HYN]
	V		33.7 ± 0.1	232	C	[1998SVO/HYN]
	V		33.3 ± 0.1	330	C	[1998SVO/HYN]
	V		32.7 ± 0.1	338	C	[1998SVO/HYN]
	V		32.2 ± 0.1	348	C	[1998SVO/HYN]
	V	(291–368)	35.2	306	A	[1987STE/MAL]
	V		35.2	298		[1971WIL/ZWO]
	V		35.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(294–367)	35.0	309		[1945WIL/TAY]
	V	(308–391)	34.4	323	EB	[1941SMI, 1984BOU/FRI]
C_7H_{16}	[464-06-2]	2,2,3-trimethylbutane				
	TRS		2.38	121		
	FUS		2.2	247.7		[1996DOM/HEA, 1930HUF/PAR]
	V	(284–355)	32.4	299	A	[1987STE/MAL]
	V	(353–483)	29.9	368	A	[1987STE/MAL]
	V		32	298		[1971WIL/ZWO]
	V	(286–355)	32.3	301		[1949FOR/NOR]
	V		31.2 ± 0.1	314	C	[1947WAD/TOD]
	V	(296–378)	31.9	311	EB	[1941SMI]
$C_7H_{16}N_2O$	[2158-11-4]	1-hexyl urea				
	FUS		22.4	383	DSC	[2005HAS/TAJ]
	FUS		26.5	380.2	DSC	[1999WEL/DRU]
$C_7H_{16}N_2S$	[26536-60-7]	1,3-propylthiourea				
	FUS		22.9	342.6	DSC	[2000DEL/JOZ]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		134.9 ± 3.0	298	B	[2000DEL/JOZ]
	SUB		132.5 ± 3.0	298	C	[1994TER/PIA]
	V	(346–394)	107.0 ± 3.0	370	ME, TE	[1994TER/PIA]
$C_7H_{16}N_4O_4$	[503152-73-6]	*N*,*N*′-bis(1-methylethyl)-*N*,*N*′-dinitromethanediamine				
	FUS		27.96	358.3	DSC	[2003SPI/WAN]
$C_7H_{16}O$	[919-94-8]	*tert*-amyl ethyl ether				
	V		39.2 ± 0.4	298	GS	[UR/VER, 2002VER, 2003VER/KRA]
	V		38.2 ± 0.2	298	C	[2002VAR/PAS]
	V	(318–374)	35.7	333	EB	[2002VAR/PAS]
	V	(320–374)	35.6	335	EB	[1994KRA/GME]
$C_7H_{16}O$	[29072-93-3]	propyl *tert*-butyl ether				
	FUS		9.87	179.6		[2001VAR/DRU, 2004DOR/YAN]
	V		38.3	298	CGC	[UR/VER, 2002VER, 2003VER/KRA]
	V	(315–370)	37.2 ± 0.6	298	EB	[2002VAR/PAS2]
	V		36.6 ± 0.2	298	C	[2002VAR/PAS2, 2004DOR/YAN]
$C_7H_{16}O$	[17348-59-3]	isopropyl *tert*-butyl ether				
	FUS		8.46	184.8		[2001VAR/DRU, 2004DOR/YAN]
	V		36.2	298	CGC	[UR/VER, 2002VER, 2003VER/KRA]
	V	(305–360)	34.4 ± 0.6	298	EB	[2002VAR/PAS2]
	V		34.5 ± 0.2	298	C	[2002VAR/PAS2, 2004DOR/YAN]
	V	(307–360)	34.0	322	EB	[1994KRA/GME]
$C_7H_{16}O$	[111-70-6]	1-heptanol				
	FUS	(5–370)	18.35	239.9		[2003VAN/GAB]
	FUS	(78–300)	18.16	240.4		[1996DOM/HEA, 1956PAR/KEN]
	V	(382–453)	55.1	397	EB	[2010CEN/ROH]
	V	(348–443)	67.1	298		[2006NAS/NEU]
	V	(283–323)	66.9 ± 0.4	298	GS	[2005ROG/PIS]
	V	(323–373)	66.5	298	CGC	[1995CHI/HOS]
	V	(373–423)	66.4	298	CGC	[1995CHI/HOS]
	V	(258–363)	65.2	310		[1992NGU/KAS]
	V	(335–450)	62.5	350	A	[1987STE/MAL]
	V		66.8 ± 0.2	298	C	[1977MAN/SEL]
	V	(333–449)	65.2	348		[1973WIL/ZWO]
	V	(336–450)	62.6	351	DTA	[1987STE/MAL, 1969KEM/KRE]
	V	(333–425)	62.9	348		[1935BUT/RAM, 1984BOU/FRI]
$C_7H_{16}O$	[543-49-7]	(*dl*)-2-heptanol				
	V	(275–312)	62.1 ± 0.4	298	GS	[2007VER/SCH]
	V	(244–338)	66.1	259		[1999NGU/BER]
	V	(351–433)	54.4	366		[1984SAC/MAR]
	V	(357–431)	51.6	372	A	[1987STE/MAL, 1975BRA/AND]
	V	(323–433)	59.8	338		[1973WIL/ZWO]
$C_7H_{16}O$	[589-82-2]	(*dl*)-3-heptanol				
	V	(244–333)	67.0	259		[1999NGU/BER]
	V	(325–430)	60.3	340	A	[1987STE/MAL]
	V	(263–295)	64.7	280	A	[1987STE/MAL, 1979THO/MEA]
	V	(349–430)	53.1	364		[1984SAC/MAR]
	V	(328–429)	59.2	343		[1973WIL/ZWO]
$C_7H_{16}O$	[589-55-9]	4-heptanol				
	V		62.4 ± 0.3	298		[2007VER/SCH]
	V	(320–428)	58.2	335	A	[1987STE/MAL]
	V	(349–428)	53.1	364		[1984SAC/MAR]
	V	(282–320)	63.1	297	A	[1987STE/MAL, 1975CAB/CON2]
	V	(320–428)	56.9	335		[1973WIL/ZWO]
$C_7H_{16}O$	[624-22-6]	2-methyl-1-hexanol				
	V	(343–438)	53.5	390		[1973WIL/ZWO]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{16}O$	[13231-81-7]	3-methyl-1-hexanol				
	V	(353–445)	57.4	399		[1973WIL/ZWO]
$C_7H_{16}O$	[818-49-5]	4-methyl-1-hexanol				
	V	(348–448)	62.6	363		[1973WIL/ZWO]
$C_7H_{16}O$	[625-23-0]	2-methyl-2-hexanol				
	V	(274–306)	58.6 ± 0.4	298	GS	[2005ROG/PIS]
	V	(311–415)	54.5	326	A	[1987STE/MAL, 1973WIL/ZWO]
$C_7H_{16}O$	[627-59-8]	5-methyl-2-hexanol				
	V	(348–428)	49.4	388		[1973WIL/ZWO]
$C_7H_{16}O$	[617-29-8]	2-methyl-3-hexanol				
	V	(323–420)	55.7	338		[1973WIL/ZWO]
$C_7H_{16}O$	[597-96-6]	3-methyl-3-hexanol				
	V	(323–416)	53.6	338		[1973WIL/ZWO]
$C_7H_{16}O$	[623-55-2]	5-methyl-3-hexanol				
	V	(275–311)	59.8 ± 0.3	298	GS	[2005ROG/PIS]
$C_7H_{16}O$	[6570-87-2]	3,4-dimethyl-1-pentanol				
	V	(393–438)	50.3	388		[1973WIL/ZWO]
$C_7H_{16}O$	[625-06-9]	2,4-dimethyl-2-pentanol				
	V	(328–408)	49.7	343		[1973WIL/ZWO]
$C_7H_{16}O$	[3970-62-5]	2,2-dimethyl-3-pentanol				
	V	(318–411)	51.4	333		[1973WIL/ZWO]
$C_7H_{16}O$	[595-41-5]	2,3-dimethyl-3-pentanol				
	V	(318–413)	53.2	333		[1973WIL/ZWO]
$C_7H_{16}O$	[600-36-2]	2,4-dimethyl-3-pentanol				
	V		51.8	328	C	[1996WEB/DEF2]
	V		48.8	343	C	[1996WEB/DEF2]
	V		45.7	358	C	[1996WEB/DEF2]
	V	(307–412)	53.6	322	A	[1987STE/MAL, 1973WIL/ZWO]
$C_7H_{16}O$	[597-49-9]	3-ethyl-3-pentanol				
	V	(275–311)	57.3 ± 0.2	298	GS	[2005ROG/PIS]
	V	(317–408)	51.3	332	A	[1987STE/MAL, 1973DYK/REP]
	V	(308–416)	55.2	323		[1973WIL/ZWO]
$C_7H_{16}O$	[18371-13-6]	2-methyl-2-ethyl-1-butanol				
	V	(358–428)	55.7	373		[1973WIL/ZWO]
$C_7H_{16}O$	[594-83-2]	2,3,3-trimethyl-2-butanol				
	V	(298–363)	48.7	313	MM	[1985WIE/SIP]
$C_7H_{16}O_2$	[13343-98-1]	1-butoxy-2-methoxyethane				
	V		47.8 ± 0.1	298	C	[1970KUS/WAD]
$C_7H_{16}O_2$	[18854-31-4]	1-propoxy-2-ethoxyethane				
	V		46.8 ± 0.1	298	C	[1970KUS/WAD]
$C_7H_{16}O_2$	[3459-83-4]	1,3-diethoxypropane				
	V		45.9 ± 0.2	298	C	[1972MAN2]
$C_7H_{16}O_2$	[126-84-1]	2,2-diethoxypropane				
	V	(273–308)	43.2 ± 0.4	298	GS	[2002VER]
	V	(273–308)	43.9	298	GS	[1998VER/PEN]
	V	(286–304)	U28.2	295	A, I	[1987STE/MAL, 1962STE/DOR]
$C_7H_{16}O_2$	[57018-52-7]	1-*tert*-butoxy-2-propanol				
	V	(346–420)	45.4	361	EB	[2001BER/WIC]
$C_7H_{16}O_2$	[141-73-1]	4-methyl-4-methoxy-2-pentanol				
	V	(343–423)	46.6	358	A	[1987STE/MAL, 1973DYK/REP]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{16}O_2$	[629-30-1]	1,7-heptanediol				
	FUS		26.3	290.5	DSC	[2014BAD/NOW]
	FUS		21.3	295.0	DTA	[1991ACR, 1990KNA/SAB]
	V		97.9 ± 0.5	298	CGC	[2006UMN/KWE]
	V		92.4	341	TE	[1994PIA/FER, 2006UMN/KWE]
	V		96.5 ± 3.2	298	TE	[1994PIA/FER, 2006UMN/KWE]
	V		93.8	323	C	[1990KNA/SAB, 2006UMN/KWE]
	V		96.2 ± 1.2	298	C	[1990KNA/SAB, 2006UMN/KWE]
$C_7H_{16}O_2$	[115-76-4]	2,2-diethyl-1,3-propanediol				
	V	(343–380)	80.2 ± 0.2	298	GS	[2007VER]
$C_7H_{16}O_3$	[6881-94-3]	diethylene glycol monopropyl ether				
	V	(369–404)	65.3	384	A	[1987STE/MAL]
$C_7H_{16}O_3$	[6881-94-3]	2-(2-propoxyethoxy)ethanol				
	V	(378–495)	65.7 ± 0.8	298	EB	[1996STE/CHI]
$C_7H_{16}O_3$	[122-51-0]	triethoxymethane (triethyl orthoformate)				
	V	(293–323)	49.0	308	A	[1987STE/MAL]
	V		47.8 ± 0.1	298	C	[1985MAR/MAN]
	V		46.0 ± 0.8	298		[1971PIH/TUO]
	V	(278–419)	47.2	293	A	[1987STE/MAL, 1947STU]
$C_7H_{16}O_3$	[4431-82-7]	3,5,7,9-tetraoxaundecane				
	V		53.6 ± 0.7	298	C	[1969MAN]
$C_7H_{16}O_3$	[51452-08-5]	*tert*-pentylperoxyethanol				
	V	(290–320)	70.1 ± 2.5		ME	[1983VAN/KAC]
$C_7H_{16}O_4$	[38578-50-6]	3-*tert*-butyldioxy-1,2-propanediol				
	V	(290–320)	88.0 ± 2.6		ME	[1983VAN/KAC]
$C_7H_{16}S$	[1639-09-4]	1-heptanethiol				
	FUS		25.4	229.9		[1996DOM/HEA, 1970FIN/MCC]
	V	(273–345)	49.5	288		[1999DYK/SVO]
	V		50.6 ± 0.2	298		[1966GOO/DEP, 1966OSB/DOU]
	V	(373–472)	45.0	388	A, EB	[1987STE/MAL, 1965DOU/OSB, 1966OSB/DOU]
$C_7H_{16}S$	[628-00-2]	2-heptanethiol				
	V	(343–437)	44.1	358		[1999DYK/SVO]
	V	(343–471)	47.2	360		[1999DYK/SVO]
	V	(341–443)	44.2	356	A	[1987STE/MAL, 1973DYK/REP]
$C_7H_{16}S_2$	[62224-02-6]	1,7-heptanedithiol				
	V	(392–526)	59.0	407	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO]
$C_7H_{17}N$	[7515-80-2]	*tert*-butylisopropylamine				
	V	(275–299)	35.7 ± 1.0	287		[1997VER]
$C_7H_{17}N$	[39099-23-5]	*N*-butyl isopropylamine				
	V		42.1 ± 0.1	298	C	[1979PET/MAJ]
	V		40.9 ± 0.1	313	C	[1979PET/MAJ]
	V		39.9 ± 0.1	328	C	[1979PET/MAJ]
	V		38.7 ± 0.1	343	C	[1979PET/MAJ]
	V		37.6 ± 0.1	358	C	[1979PET/MAJ]
	V	(325–395)	40.0	340	C	[1979PET/MAJ]
$C_7H_{17}N$	[111-68-2]	heptylamine				
	V		51.0 ± 2.1	298		[2013GOB/RAT]
	V	(280–306)	50.2 ± 0.4	293	GS	[2013THO/CHI]
	V	(280–306)	49.8 ± 0.4	298	GS	[2013THO/CHI]
	V		49.7 ± 5.8	298	CGC	[2013THO/CHI]
	V	(323–373)	49.9	298	CGC	[1995CHI/HOS]
	V	(326–430)	46.5	341	A	[1987STE/MAL]
	V		50.0 ± 0.1	298	C	[1969WAD]
	V	(327–430)	43.4 ± 0.6	379	BP	[1940RAL/SEL, 2013THO/CHI]
	V	(327–430)	50.2 ± 1.4	298	BP	[1940RAL/SEL, 2013THO/CHI]

TABLE 10. Phase change enthalpies of C_7 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_7H_{17}NO$	[7352-03-6]	*N*-(ethoxymethyl)diethylamine				
	V	(285–400)	39.6	300	A	[1987STE/MAL]
$C_7H_{17}N_3$	[934-98-5]	1-(2-aminoethyl)-4-methylpiperazine				
	V	(298–332)	64.0 ± 0.2	298	GS	[2010EFI/EME]
$C_7H_{17}O_2PS_3$	[298-02-2]	*O*, *O*-diethyl-*S*-[(ethylthio)methyl]dithiophosphate				
	V	(283–387)	70.8	298	A	[1987STE/MAL, 1973DYK/REP, 1999DYK/SVO]
$C_7H_{17}O_3P$	[1445-75-6]	diisopropyl methylphosphonate				
	V	(253–468)	62.1	253	GS	[2009BUT/BUC]
	V	(253–468)	58.9	283	GS	[2009BUT/BUC]
	V	(253–468)	57.6	298	GS	[2009BUT/BUC]
	V	(253–468)	56.5	313	GS	[2009BUT/BUC]
	V	(253–468)	54.2	353	GS	[2009BUT/BUC]
	V	(253–468)	52.4	393	GS	[2009BUT/BUC]
$C_7H_{18}N_2$	[646-19-5]	1,7-heptanediamine				
	FUS		43.5	301.5	AC	[2004MON/VAN, 2014FUL/RUZ]
	FUS		36.95	298.5	DSC	[2002DAL/DEL]
	SUB	(274–300)	105.3	298	Static	[2014FUL/RUZ]
	V	(305–358)	63.9	331	GS	[2011POZ/VER]
	V	(305–358)	67.1 ± 0.2	298	GS	[2011POZ/VER]
	V	(273–313)	U46.5	288	A	[1987STE/MAL]
$C_7H_{18}N_2$	[104-78-9]	*N*, *N*-diethyl-1,3-propanediamine				
	V	(277–305)	52.4 ± 0.5	298	GS	[2012VER/CHE]
	V	(273–363)	49.3	318		[2010KHI/DAH]
	V	(273–363)	51.3 ± 0.6	298		[2010KHI/DAH, 2012VER/CHE]
	V	(303–343)	49.0	323		[2008KHI/DAH]
	V	(303–343)	51.0 ± 0.3	298		[2008KHI/DAH, 2012VER/CHE]
	V	(329–443)	46.4	344	A	[1987STE/MAL]
$C_7H_{18}N_2$	[110-95-2]	*N*, *N*, *N′*, *N′*-tetramethyl-1,3-propanediamine				
	V	(273–363)	44.1	298	Static	[2015BOU/NEG2]
	V	(274–323)	45.3 ± 0.2	298	GS	[2012VER/CHE]
$C_7H_{18}N_2O$	[5966-51-8]	1,3-bis(dimethylamino)-2-propanol				
	V	(355–450)	50.3	370	A	[1987STE/MAL]
$C_7H_{18}N_2O$	[2212-32-0]	2-(2-*N*, *N*-dimethylaminoethyl-*N*-methylamino)ethanol				
	V	(293–353)	63.2	323	GS	[2011VER/TON]
	V	(293–353)	65.2 ± 0.2	298	GS	[2011VER/TON]
$C_7H_{19}N_3$	[67727-91-7]	*N*, *N*-diethyl-2-(1-methylhydrazino)ethanamine				
	V	(283–313)	61.8	298	A	[1987STE/MAL]
$C_7H_{20}N_4$	[4741-99-5]	1,4,8,11-tetraazaundecane				
	V	(332–348)	98.3 ± 1.3	340	TE	[1983CLA/COR]

TABLE 11. Phase change enthalpies of C_8 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8BrF_{17}	[423-55-2]	1-bromoperfluorooctane				
	TRS		1.6	146.4		
	FUS		12.13	278.9		[1997VAR/DRU]
	V	(288–332)	45.6 ± 0.4	298		[2005DIA/GON]
$C_8Cl_4N_2$	[1897-45-6]	2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile				
	TRS		4.03	423.7		
	FUS		Not reported		DSC	[2005RON/GU]
	FUS		30.0	526.2	DSC	[1990DON/DRE]
	FUS		31.4	526.2	DSC	[1972PLA]
	SUB	(363–418)	109.1	378	ME, GS	[1987STE/MAL, 1980DEP]
	V	(373–403)	67.0	388	GC	[2007GOE/MCC]
C_8D_{10}	[56004-61-6]	*o*-xylene-d_{10}				
	V		43.0	298	CGC	[2008ZHA/UNH]
C_8D_{10}	[41051-88-1]	*p*-xylene-d_{10}				
	V		42.4	298	CGC	[2008ZHA/UNH]
C_8D_{18}	[17252-77-6]	octane-d_{18}				
	V		41.4	298	CGC	[2008ZHA/UNH]
$C_8F_8O_2$	[14533-84-7]	trifluoroacetic acid, pentafluorophenyl ester				
	V		42.1			[1976HOP/DES]
$C_8F_8O_4$	[59483-83-9]	carbonoperoxoic acid, *O*-(pentafluorophenyl) *O*, *O*-(trifluoromethyl) ester				
	V		51.8			[1976FAL/DES2]
C_8F_{16}	[335-21-7]	perfluoroethylcyclohexane				
	V	(308–512)	37.2	323		[1999DYK/SVO]
	V	(310–400)	38.6	298		[1984BOU/FRI, 1991BAS/SVO]
	V		38.7 ± 0.4	298		[1981VAR/BUL]
	V	(311–411)	37.1	326	A	[1987STE/MAL, 1970DYK/VAN, 1959GOO/DOU, 1999DYK/SVO]
C_8F_{16}	[335-27-3]	perfluoro-1,3-dimethylcyclohexane				
	V	(308–375)	37.4	323		[1999DYK/SVO]
C_8F_{16}		*cis*/*trans*-perfluoro-1,3-dimethylcyclohexane				
	V		38.6 ± 0.1	298	C	[1996VAR/DRU]
$C_8F_{16}N_2$	[57682-63-0]	2,2,2-trifluoro-*N*′-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidine]ethanimidamide				
	V		32.8			[1975PET/SHR3]
$C_8F_{16}O$	[335-36-4]	perfluoro-2-butyltetrahydrofuran				
	V	(383–433)	34.7	408	EST	[1960YAR/KAY]
C_8F_{18}	[307-34-6]	perfluorooctane				
	TRS		3.14	176.5		
	FUS		9.58	254.2	DSC	[1986STA]
	TRS		7.22	195		
	FUS		10.74	250	C	[1982CAM/REY]
	V	(289–333)	39.9	298		[2004DIA/CAC]
	V	(437–503)	32	452		[1999DYK/SVO]
	V	(309–378)	41.2 ± 0.8	298	EB	[1981VAR/BUL]
	V		41.1 ± 0.1	298	C	[1981VAR/BUL]
	V	(310–379)	39.5	325	A	[1987STE/MAL, 1962KRE, 1970DYK/VAN]
$C_8F_{18}N_2OS$	[66632-47-1]	bis(1,1,1,3,3,3-hexafluoro-2-propanaminato)oxobis(trifluoromethyl)sulfur				
	V	(273–333)	39.6	288	A	[1987STE/MAL, 1978KIT/SHR, 1999DYK/SVO]
$C_8F_{18}N_2S$	[37826-45-2]	*S*, *S*-bis(trifluoromethyl)-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)-1-[(2,2,2-trifluoro-1-trifluoromethyl]ethylidine)amino]ethyl sulfilimine				
	V	(329–373)	41.1	344	A	[1987STE/MAL, 1972SWI/SHR]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8F_{18}O$	[308-48-5]	bis(nonafluorobutyl) ether				
	V	(315–374)	40.3 ± 0.8	298	EB	[1989VAR/PAS]
	V		40.7 ± 0.1	298	C	[1989VAR/PAS]
	V	(343–375)	36.6	358	A	[1987STE/MAL]
	V	(288–313)	42.2	300	A	[1987STE/MAL]
	V	(374–413)	56.3	389	A	[1987STE/MAL, 1999DYK/SVO]
$C_8F_{18}O_2$	[647-40-5]	dodecafluoro-1,6-bis(trifluoromethoxy)hexane				
	V	(293–353)	33.6	323		[1999DYK/SVO, 1964ROB]
$C_8F_{18}O_3S$	[53517-90-1]	bis(1,1,1,3,3,3-hexafluoro-2-(trifluoromethyl)-2-propanol) sulfite				
	V		38.7			[1975DEM/KOV]
$C_8F_{20}N_2S$	[65844-11-3]	difluoro[1,1,1,3,3,3-hexafluoro-*N*-[2,2,2-trifluoro-1-(trifluoromethyl)-ethylidene-2,2-propanediaminato(2-)-*N*]-bis(trifluoromethyl) sulfur				
	V		39.3	390	I	[1978KIT/SHR]
$C_8HCl_4F_{11}O_2$	[2923-68-4]	3,5,7,8-tetrachloro-2,2,3,4,4,5,6,6,7,8,8-undecafluorooctanoic acid				
	V	(373–553)	70.6	388	A	[1987STE/MAL, 1957BAR/SEF, 1999DYK/SVO]
$C_8HF_{15}O_2$	[335-67-1]	perfluorooctanoic acid				
	SUB	(298–318)	88.9		GS	[2008BAR/BOT]
$C_8HF_{16}NO$	[54181-87-2]	1,1,1,2,3,3,3-heptafluoro-*N*-[2,2,2-trifluoro-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethoxy]ethylidene]-2-propanamine				
	V		36.0	364		[1975PET/SHR]
C_8HF_{17}	[335-65-9]	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluorooctane				
	V	(288–332)	43.4 ± 0.2	298		[2005DIA/GON]
$C_8H_2Cl_4N_2$	[25983-14-6]	2,3,6,7-tetrachloroquinoxaline				
	FUS		29.6	446	DSC	[2000MON/HIL2]
	SUB		105.9 ± 2.2	298	ME	[2004MOR/MIR]
	SUB	(347–361)	106.2 ± 0.3	354	ME	[2000MON/HIL2]
	SUB		108.2 ± 1.9	298	ME	[2000MON/HIL2]
$C_8H_2F_{16}$	[307-99-3]	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctane				
	V	(298–323)	41.1	310	A	[1987STE/MAL, 1999DYK/SVO, 1956MCL/SCO]
$C_8H_3ClF_6$	[327-76-4]	4-chloro-1,3-bis(trifluoromethyl)benzene				
	V	(275–353)	48.0	290	A	[1987STE/MAL, 1946FIE/SAY, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_3ClF_6$	[328-72-3]	5-chloro-1,3-bis(trifluoromethyl)benzene				
	V	(275–353)	46.2	290	A	[1987STE/MAL, 1946FIE/SAY, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_3ClO_3$	[117-21-5]	4-chloroisobenzofuran-1,3-dione				
	FUS		18.65	398.8	DSC	[2015WAN/WAN]
	FUS		13.35	398.0	DSC	[2010JI/MEN]
$C_8H_3ClO_3$	[118-45-6]	5-chloroisobenzofuran-1,3-dione				
	FUS		21.45	367.3	DSC	[2015WAN/WAN]
	FUS		33.06	367.4	DSC	[2010JI/MEN]
	V	(447–560)	64.3	470	EB	[2015LI/DU]
$C_8H_3Cl_4F_3$	[328-82-5]	1,1,1-trifluoro-2,2-dichloro-2-(3,4-dichlorophenyl)ethane				
	V	(417–461)	56.9	432	A	[1987STE/MAL, 1999DYK/SVO, 1951PAR/BRO]
$C_8H_3FO_3$	[319-03-9]	4-fluorophthalic acid				
	V		60.1	450	EB	[2015LI/DU]
$C_8H_3F_5O_2$	[19220-93-0]	acidic acid, pentafluorophenyl ester				
	V	(283–322)	48.1	298	A	[1987STE/MAL, 1999DYK/SVO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		42.1	406		[1976FAL/DES2]
$C_8H_3F_{15}O$	[307-30-2]	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-octanol				
	V	(350–437)	53.3	365	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_3NO_5$	[641-70-3]	3-nitrophthalic anhydride				
	FUS		20.3	434.4	DSC	[2014GAR/AMA]
	FUS		18.4	436.2	DSC	[1977CAS/VEC]
	SUB		100.4 ± 3.5	298	ME	[2014GAR/AMA]
$C_8H_3NO_5$	[5466-84-2]	4-nitrophthalic anhydride				
	FUS		22.74	389.8	DSC	[2014GAR/AMA]
	FUS		17.14	388.2	DSC	[1977CAS/VEC]
	SUB		103.6 ± 5.9	298	ME	[2014GAR/AMA]
$C_8H_4ClF_3O$	[321-31-3]	trifluoromethyl 3-chlorophenyl ketone				
	V	(366–405)	52.7	386	A	[1987STE/MAL, 1999DYK/SVO, 1951PAR/BRO]
$C_8H_4Cl_2N_2$	[2213-63-0]	2,3-dichloroquinoxaline				
	FUS		24.36	424.4	DSC	[2000MON/HIL2]
	SUB		91.8 ± 1.1	298	ME	[2004MOR/MIR]
	SUB	(313–329)	92.4 ± 0.4	321	ME	[2000MON/HIL2]
	SUB		93.1 ± 0.9	298	ME	[2000MON/HIL2]
$C_8H_4Cl_2O_2$	[99-63-8]	isophthaloyl chloride				
	V	(443–550)	61.5	458	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_4Cl_2O_2$	[88-95-9]	phthaloyl chloride				
	V	(391–549)	58.0	406	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_8H_4Cl_2O_2$	[100-20-9]	terephthaloyl chloride				
	TRS		2.34	337.3		
	FUS		21.1	356.1		[1996DOM/HEA, 1982KAR/SHV2]
	V	(454–473)	56.2	463	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_4Cl_3F_3$	[309-12-6]	1,1,1-trifluoro-2,2-dichloro-(3-chlorophenyl)ethane				
	V	(387–475)	49.6	431		[1999DYK/SVO, 1951PAR/BRO]
	V	(387–474)	50.4	402	A	[1987STE/MAL, 1951PAR/BRO]
$C_8H_4FNO_2$	[443-69-6]	5-fluoroindole-2,3-dione (5-fluoroisatin)				
	FUS		29.6	498	DSC	[2007DRA/JAN]
$C_8H_4F_6$	[402-31-3]	1,3-bis(trifluoromethyl)benzene				
	V	(275–353)	42.4	290	A	[1987STE/MAL, 1951POT/SAY, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_4F_6$	[433-19-2]	1,4-bis(trifluoromethyl)benzene				
	V	(287–390)	41.8	302	A	[1987STE/MAL, 1951POT/SAY, 1999DYK/SVO]
$C_8H_4F_{14}O$	[65064-81-5]	1,1,2,2,3,3,4,4-octafluoro-5-(1,1,2,3,3,3-hexafluoropropoxy)pentane				
	V		53.3 ± 0.1	298	C	[1981VAR/BUL2]
$C_8H_4N_2$	[91-15-6]	1,2-dicyanobenzene				
	FUS		20.0	414.1		[1982KAR/SHV]
	SUB		86.9 ± 1.5	298	GS	[1980SAT/SAK]
$C_8H_4N_2$	[626-17-5]	1,3-dicyanobenzene				
	SUB		90.1 ± 1.5	298	GS	[1980SAT/SAK]
$C_8H_4N_2$	[623-26-7]	1,4-dicyanobenzene				
	SUB		89.7 ± 1.8	298	ME	[1992ACR/TUC]
	SUB		88.8 ± 1.5	298	GS	[1980SAT/SAK]
$C_8H_4N_2O_2$	[3729-34-8]	1,4-dicyanobenzene di-*N*-oxide				
	SUB		73.0 ± 2.0	298	ME	[1992ACR/TUC]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_4N_2O_4$	[603-62-3]	3-nitrophthalimide				
	FUS		34.0	487	DSC	[2007DRA/JAN]
$C_8H_4O_2$	[6383-11-5]	benzocyclobutenedione				
	SUB	(304–367)	U89.5	336		[1989ROR/RUT]
$C_8H_4O_3$	[85-44-9]	phthalic anhydride				
	FUS		23.09	403.3	DSC	[1991ACR, 1990DON/DRE]
	FUS		22.1	404.5	DSC	[1979DAS/DHA]
	SUB		87.9 ± 4.7	298	C	[2016FRE/SAN]
	SUB	(313–383)	87.9	348	A	[1987STE/MAL, 1972AMI/VAK]
	SUB	(333–403)	84.4 ± 1.2	388	GS	[1979DAS/DHA]
	SUB		81 ± 1		C	[1971BEE/LIN]
	SUB	(303–333)	88.4 ± 1.2	318		[1946CRO/FEE, 1970COX/PIL, 1960JON]
	V	(407–558)	52.1	422	A	[1987STE/MAL]
	V	(411–450)	63.9 ± 2.5	422	GS	[1979DAS/DHA]
	V		63.1			[1952GOT/NIK]
	V		65.3 ± 0.8			[1946CRO/FEE, 1979DAS/DHA]
	V	(485–557)	54.1	521	I	[1920MON]
$C_8H_5Br_3$	[24162-65-0]	2,4,5-tribromostyrene				
	FUS		25.1	340.3		[1993OIS/HOR]
$C_8H_5Cl_2F_3$	[309-10-4]	1,1,1-trifluoro-2,2-dichloro-2-phenylethane				
	V	(365–446)	47.2	380	A	[1987STE/MAL, 1999DYK/SVO, 1951PAR/BRO]
$C_8H_5Cl_2N$	[40626-45-7]	α, α-dichlorophenylacetonitrile				
	V	(329–497)	57.2	344	A	[1987STE/MAL, 1947STU]
$C_8H_5Cl_3O_2$	[85-34-7]	2,3,6-trichlorophenylacetic acid				
	FUS		22.43	432.3	DSC	[1991ACR, 1990DON/DRE]
$C_8H_5Cl_3O_3$	[93-76-5]	(2,4,5-trichlorophenoxy)acetic acid				
	FUS		38.0	428.7	DSC	[1991ACR, 1990DON/DRE]
$C_8H_5Cl_5$	[606-07-5]	pentachloroethylbenzene				
	V	(369–572)	58.8	384	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_8H_5F_3OS_2$	[4552-64-1]	1,1,1-trifluoro-4-(2-thienyl)-4-mercapto-3-buten-2-one				
	SUB		95.1 ± 3.7	298	C	[1997RIB/SAN]
$C_8H_5F_3O_2S$	[15788-02-0]	1,1,1-trifluoro-4-(2-thienyl)-4-hydroxy-3-buten-2-one				
	SUB		86.2 ± 0.6	298	C	[1997RIB/SAN]
	SUB	(279–290)	86.9 ± 0.6	285	ME	[1992RIB/MON]
	SUB	(279–290)	86.2 ± 0.6	298	ME	[1992RIB/MON]
$C_8H_5F_3O_3$	[326-90-9]	4,4,4-trifluoro-1-(2-furanyl)-butane-1,3-dione				
	SUB		70 ± 10	298		[1997RIB/GON]
$C_8H_5F_5O$	[434-45-7]	2,2,2-trifluoroacetophenone				
	V	(342–425)	43.1	357	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_5F_{14}OP$	[647-72-3]	ethyl bis(heptafluropropyl)phosphinite				
	V	(303–393)	41.9	348		[1959EME/SMI]
C_8H_5NO	[613-90-1]	benzoylnitrile				
	SUB	(292–304)	78.7 ± 4.2	298		[1969LEB/DNE, 1977PED/RYL, 1987STE/MAL]
	V	(318–481)	52.0	333	A	[1987STE/MAL, 1947STU]
$C_8H_5NO_2$	[85-41-6]	phthalimide				
	FUS		28.6	507.2	DSC	[1978CAN]
	SUB	(347–365)	104.0 ± 0.4	356	ME	[2006RIB/SAN]
	SUB	(347–365)	106.3 ± 1.3	298	ME	[2006RIB/SAN]
	SUB	(378–418)	82.8	393	RG	[1987STE/MAL, 1956KLO]
$C_8H_5NO_2$	[91-56-5]	1*H*-indole-2,3-dione (isatin)				
	FUS		27.82	475.7	DSC	[2003MAT/MIR2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		118.8 ± 5.1	298	C	[2003MAT/MIR2]
$C_8H_5NO_2$	[4421-09-4]	5-cyano-1,3-benzodioxole				
	FUS		20.79	366.3	DSC	[2007MAT/SOU]
	SUB		90.9 ± 0.9	298	C	[2007MAT/SOU]
$C_8H_5NO_2$	[3839-22-3]	2-cyanobenzoic acid				
	SUB		114.6 ± 1.3	298	C	[2008RIB/AMA2]
$C_8H_5NO_2$	[1877-72-1]	3-cyanobenzoic acid				
	SUB		116.6 ± 0.9	298	C	[2008RIB/AMA2]
$C_8H_5NO_2$	[619-65-8]	4-cyanobenzoic acid				
	FUS		31.8	495.4	DSC	[2010MON/SAN]
	SUB		109.4 ± 0.4	364	ME	[2010MON/SAN]
	SUB		111.2 ± 0.4	298	ME	[2010MON/SAN]
	SUB		112.8 ± 0.4	298		[2008RIB/AMA2]
$C_8H_5NO_3$	[118-48-9]	isatoic anhydride				
	SUB		115.6 ± 2.8	298	C	[2004MAT/MIR]
	SUB		82.7 ± 2.8	298	C	[2003MAT/MIR2]
[Note: In [2004MAT/MIR] the authors state that an error was made in [2003MAT/MIR2] in converting the enthalpy of sublimation measured at a higher temperature back to 298 K.]						
$C_8H_5NO_3$	[2037-95-8]	2*H*-1,3-benzoxazine-2,4(3*H*)-dione				
	FUS		28.63	500.5	DSC	[2004MAT/MIR]
	SUB		114.2 ± 2.7	298	C	[2004MAT/MIR]
$C_8H_5N_3$	[27032-01-5]	pyridinium dicyanomethylide				
	SUB	(403–433)	125.4	418	A	[1987STE/MAL]
	SUB	(403–406)	125.5 ± 1.3		ME	[1967BOY/GUH, 1970COX/PIL]
C_8H_6	[536-74-3]	phenylacetylene				
	FUS	(14–480)	9.46	228		[1982LEB/BYK]
	V	(313–416)	42.6 ± 0.1	320	EB	[2002STE/CHI3]
	V	(313–416)	40.4 ± 0.1	360	EB	[2002STE/CHI3]
	V	(313–416)	38.0 ± 0.2	400	EB	[2002STE/CHI3]
	V	(265–291)	43.9	278	MM	[1981CHI/HYM]
	V	(270–292)	45.2	281	HSA	[1981CHI/HYM]
C_8H_6BrN	[5798-79-8]	(*dl*)-α-bromophenylacetonitrile				
	V	(293–515)	64.7	308	A	[1987STE/MAL]
	V	(358–432)	60.7			[1947GOU/HOL]
	V	(299–338)	65.2	318		[1947BAL2]
C_8H_6ClN	[612-13-5]	2-(chloromethyl)benzonitrile				
	FUS	(300–372)	20.53	344.2	AC	[2007XU/ZEN]
$C_8H_6ClNO_3$	[22751-23-1]	2-nitrobenzeneacetyl chloride				
	SUB	(296–327)	103.6	311	TE	[1987STE/MAL, 1947BAL, 1960JON]
$C_8H_6ClNO_3$	[99-47-8]	3-nitrobenzeneacetyl chloride				
	SUB	(299–343)	109.1	314	TE	[1987STE/MAL, 1947BAL, 1960JON]
$C_8H_6ClNS_2$	[28908-00-1]	2-(chloromethylthio)benzothiazole				
	FUS	(80–350)	17.02	351.1	AC	[2005WAN/TAN2]
$C_8H_6Cl_2$	[2123-28-6]	2,3-dichlorostyrene				
	V	(334–508)	55.4	349		[1999DYK/SVO]
	V	(334–508)	54.3	349	A	[1987STE/MAL, 1947STU]
$C_8H_6Cl_2$	[2123-27-5]	2,4-dichlorostyrene				
	V	(327–498)	55.0	342	A	[1987STE/MAL, 1970DYK/VAN]
$C_8H_6Cl_2$	[1123-84-8]	2,5-dichlorostyrene				
	V	(328–500)	54.3	343	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_6Cl_2$	[28469-92-3]	2,6-dichlorostyrene				
	V		53.8 ± 1.5	298	GS	[2001PUR/CHI]
	V	(321–490)	50.4	336	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_6Cl_2$	[2039-83-0]	3,4-dichlorostyrene				
	V	(330–503)	53.3	345	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_6Cl_2$	[2155-42-2]	3,5-dichlorostyrene				
	V	(326–498)	55.1	341	A	[1987STE/MAL, 1970DYK/VAN]
$C_8H_6Cl_2O$	[63024-77-1]	3-(chloromethyl)benzoyl chloride				
	V	(424–464)	54.7	439	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_6Cl_2O$	[876-08-4]	4-(chloromethyl)benzoyl chloride				
	V	(440–466)	68.3	453	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_6Cl_2O$	[937-20-2]	2,4′-dichloroacetophenone				
	SUB	(301–323)	97.4 ± 0.5	312	ME	[2014AMA/RIB]
	SUB	(301–323)	97.8 ± 0.5	298	ME	[2014AMA/RIB]
$C_8H_6Cl_2O$	[2234-16-4]	2′,4′-dichloroacetophenone				
	V		63.6 ± 1.4	298	C	[2011RIB/AMA2]
$C_8H_6Cl_2O$	[2476-37-1]	2′,5′-dichloroacetophenone				
	V		66.3 ± 1.5	298	C	[2011RIB/AMA2]
$C_8H_6Cl_2O$	[2642-63-9]	3′,4′-dichloroacetophenone				
	SUB		90.8 ± 1.6	298	C	[2011RIB/AMA2]
	SUB	(293–309)	92.1 ± 0.5	301	ME	[2011RIB/AMA2]
	SUB	(293–309)	92.2 ± 0.5	298	ME	[2011RIB/AMA2]
$C_8H_6Cl_2O_3$	[94-75-7]	(2,4-dichlorophenoxy)acetic acid				
	FUS		35.3	412.1	DSC	[2013WAN/LV]
	FUS		32.0	416.2	DSC	[2005VEC/BRU]
	FUS		35.33	412.5	DSC	[1990DON/DRE]
	SUB		115 ± 6	298	DSC	[2005VEC/BRU]
	SUB	(346–387)	123 ± 2	361	TE	[2005VEC/BRU]
	SUB	(346–387)	125 ± 3	298	TE	[2005VEC/BRU]
$C_8H_6Cl_2O_3$	[1918-00-9]	3,6-dichloro-2-methoxybenzoic acid				
	FUS		22.9	386.7	DSC	[1991ACR, 1990DON/DRE]
$C_8H_6Cl_2O_4$	[7600-50-2]	3,6-dichloro-5-hydroxy-2-methoxybenzoic acid				
	FUS		28.98	409.8	DSC	[1991ACR, 1990DON/DRE]
$C_8H_6Cl_4$	[107533-18-6]	2,3,4,6-tetrachloro-1-ethylbenzene				
	V	(350–543)	53.6	365	A	[1987STE/MAL, 1947STU]
$C_8H_6Cl_4$	[877-08-7]	3,4,5,6-tetrachloro-1,2-dimethylbenzene				
	FUS		21.46	359.2		[1991ACR, 1983WEA]
	V	(367–547)	63.6	382	A	[1987STE/MAL, 1970DYK/VAN]
$C_8H_6Cl_4$	[877-10-1]	2,3,5,6-tetrachloro-1,4-dimethylbenzene (tetrachloro-*p*-xylene)				
	FUS		22.59	368.2		[1991ACR, 1983WEA]
$C_8H_6F_{12}O_3S$	[53602-64-5]	bis(1,1,1,3,3,3-hexafluoro-2-methyl-2-propanol) sulfite				
	V		46.5			[1975DEM/KOV]
$C_8H_6F_{12}O_4$	[485399-48-2]	3,3,4,4,6,6,7,7,9,9,10,10-dodecafluoro-2,5,8,11-tetraoxododecane				
	TRS		22.07	239		
	FUS		1.14	251	DSC	[2005MAR/AVA]
	V	(300–410)	36.7			[2005MAR/AVA]
C_8H_6ClNO	[19219-99-9]	5-chloro-2-methylbenzoxazole				
	FUS		20.2	328.8	DSC	[2013SIL/CIM]
	SUB		82.4 ± 2.2	298	C	[2013SIL/CIM]
C_8H_6ClNO	[41014-43-1]	2-chloromethylbenzoxazole				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(348–424)	84.1	363		[2006HUO/ZEN]
$C_8H_6N_2$	[253-52-1]	phthalazine				
	FUS		13.32	364.5		[1993SAB/PEM]
	SUB		82.3 ± 2.3	298	C	[1995RIB/MAT4]
	SUB		81.1 ± 0.4	298	C	[1998SAB/TAB, 1993SAB/PEM]
	SUB		96.7		ME	[1972MIL]
	V		72.7 ± 3.0	298	CGC	[2010LIP/PLI]
	V		67.3 ± 2.2	298	CGC	[2010LIP/CHI]
$C_8H_6N_2$	[91-19-0]	quinoxaline				
	FUS		11.8	305.7		[1993SAB/PEM]
	SUB		66.6 ± 2.0	298	C	[1995RIB/MAT4]
	SUB		69.4 ± 0.6	298	C	[1993SAB/PEM]
	V		58.7 ± 1.9	298	CGC	[2010LIP/CHI]
$C_8H_6N_2$	[253-82-7]	quinazoline				
	FUS		16.95	320.9		[1993SAB/PEM]
	SUB		77.6 ± 0.5	298	C	[1998SAB/TAB, 1993SAB/PEM]
	SUB		76.6 ± 1.4	298	C	[1995RIB/MAT4]
	V		59.6 ± 1.9	298	CGC	[2010LIP/CHI]
	V		58.9 ± 2.0	298	CGC	[2009LIP/HAN]
$C_8H_6N_2O$	[1196-57-2]	2-hydroxyquinoxaline				
	FUS		32.5	542.5	DSC	[2000MON/HIL2]
	SUB	(383–399)	116.1 ± 0.6	391	ME	[2000MON/HIL2]
	SUB	(383–399)	118.5 ± 3.1	298	ME	[2000MON/HIL2]
	SUB		125.8 ± 4.0	298	C	[2000RIB/MAT]
$C_8H_6N_2O$	[119-39-1]	1-(2*H*)-phthalazinone				
	SUB	(348–368)	104.4 ± 0.5	358	ME	[2008RIB/CAB2]
	SUB	(348–368)	107.4 ± 0.5	298	ME	[2008RIB/CAB2]
$C_8H_6N_2OS_2$	[2439-01-2]	6-methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one				
	FUS		29.92	443.2	DSC	[1990DON/DRE]
$C_8H_6N_2O_2$	[15804-19-0]	2,3-dihydroxyquinoxaline				
	SUB		156.3 ± 5.5	298	C	[2000RIB/MAT]
$C_8H_6N_2O_2$	[2423-66-7]	quinoxaline-1,4-dioxide				
	SUB		112.0 ± 1.9	298	C	[1997ACR/POW]
$C_8H_6N_2O_2$	[2518-24-3]	3-aminophthalimide				
	SUB	(386–459)	108.3	401	A	[1987STE/MAL, 1956KLO]
$C_8H_6N_2O_2$	[3676-85-5]	4-aminophthalimide				
	SUB	(444–498)	135.3	459	A	[1987STE/MAL]
$C_8H_6N_2O_2$	[6146-52-7]	5-nitroindole				
	SUB	(353–375)	110.5 ± 1.0	298	ME	[2009RIB/CAB]
$C_8H_6N_2O_2$	[86-96-4]	quinazoline-2,4(1*H*,3*H*)-dione				
	SUB		128.3 ± 2.2	298	C	[2011MIR/MAT4]
$C_8H_6N_4$		monobenzo-1,3α,4,6α-tetraazapentalene				
	SUB	(323–373)	74.9 ± 2.9	348		[1967CHI/SIM]
$C_8H_6N_4$		monobenzo-1,3α,6,6α-tetraazapentalene				
	SUB	(323–383)	63.6 ± 2.9	350		[1967CHI/SIM]
C_8H_6O	[271-89-6]	2,3-benzofuran				
	V	(279–313)	48.8 ± 0.3	298	GS	[2011VER/EME3]
	V	(323–403)	46.2	338	A	[1987STE/MAL]
C_8H_6O	[5101-44-0]	2-ethynylphenol				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(300–373)	33.5	315	A	[1987STE/MAL]
$C_8H_6O_2$	[1074-12-0]	phenyl glyoxal				
	V	(348–467)	59.7	363	A	[1987STE/MAL, 1947STU]
$C_8H_6O_2$	[87-41-2]	phthalide				
	SUB		88.4 ± 4.4	298	C	[2016FRE/SAN]
	V	(368–563)	59.3	383	A	[1987STE/MAL, 1947STU]
$C_8H_6O_2$	[553-86-6]	2-coumaranone				
	SUB		78.7 ± 1.7	298	C	[2013SOU/MAT]
$C_8H_6O_2$	[7169-34-8]	3-coumaranone				
	SUB		85.8 ± 1.7	298	C	[2013SOU/MAT]
$C_8H_6O_3$	[120-57-0]	piperonal				
	SUB	(293–353)	90.8	323	A	[1953SER/VOI, 1960JON, 1987STE/MAL]
	V	(310–353)	65.7	331		[1953SER/VOI]
	V	(360–536)	60.6	375	A	[1987STE/MAL, 1947STU]
$C_8H_6O_3$	[619-66-9]	4-formylbenzoic acid				
	FUS		21.3	452.2		[2004CHE/MA]
$C_8H_6O_4$	[88-99-3]	phthalic acid				
	FUS		38.1	479.9	DSC	[2012BOO/BAN]
	FUS		36.5	463.5		[1999SAB/PER2]
	SUB		129.8 ± 0.6	298	C	[1999SAB/PER2]
$C_8H_6O_4$	[121-91-5]	isophthalic acid				
	FUS		33.1	618.4	DSC	[2012BOO/BAN]
	FUS		43.2	617.4	DTA	[1999SAB/PER2]
	SUB	(424–476)	134.6 ± 1.6	450	ME	[2000KOZ/MAK]
	SUB		142.0 ± 0.7	298	C	[1999SAB/PER2]
	SUB	(532–643)	126.9			[1994SIR/MAM]
	SUB	(493–563)	114.2	508	A	[1987STE/MAL, 1962KRA/BER]
	SUB	(493–563)	106.7 ± 2.2	523	GS	[1962KRA/BER, 1970COX/PIL]
$C_8H_6O_4$	[100-21-0]	terephthalic acid				
	FUS		53.57	698.2	DSC	[1999HAN/ZHU]
	SUB	(442–500)	142.2 ± 1.5	471	ME	[2000KOZ/MAK]
	SUB		146.6 ± 0.5	298	C	[1999SAB/PER2]
	SUB	(568–675)	139.3 ± 3.8		DTA	[1968LUC/LEW]
	SUB	(523–633)	139.2	538	A	[1987STE/MAL, 1962KRA/BER]
	SUB	(523–633)	131	573	GS	[1962KRA/BER]
	SUB	(392–425)	U98.24 ± 2.5	408		[1934HIR, 1970COX/PIL]
$C_8H_6O_4$	[94-53-1]	1,3-benzodioxole-5-carboxylic acid (piperonylic acid)				
	FUS		30.5	501.6	DSC	[2004MAT/MON]
	SUB	(363–377)	113.6 ± 1.1	370	ME	[2004MAT/MON]
	SUB	(363–377)	117.2 ± 1.8	298	ME	[2004MAT/MON]
C_8H_6S	[95-15-8]	benzo[b]thiophene				
	FUS	(278–498)	11.82	304.5	AC	[1991CHI/KNI2]
	FUS		11.84	304.5	AC	[1996DOM/HEA, 1954FIN/GRO]
	SUB		65.7 ± 0.2	298	C	[1979SAB]
	V	(434–494)	47.5	450		[2011SAP/POK]
	V	(349–424)	52.1	364		[1999DYK/SVO]
	V	(424–498)	47.9	439		[1999DYK/SVO]
	V	(498–631)	45.0	513		[1999DYK/SVO]
	V	(310–542)	54.3	320	EB, IPM	[1991CHI/KNI2]
	V	(310–542)	52.0	360	EB, IPM	[1991CHI/KNI2]
	V	(310–542)	49.7	400	EB, IPM	[1991CHI/KNI2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(310–542)	46.2	460	EB, IPM	[1991CHI/KNI2]
	V	(310–542)	43.8	500	EB, IPM	[1991CHI/KNI2]
	V	(310–542)	41.2	540	EB, IPM	[1991CHI/KNI2]
	V	(424–630)	47.2	425		[1981WIE/KOB, 1980WIE/KOB]
	V	(424–630)	42.8	505		[1981WIE/KOB, 1980WIE/KOB]
	V	(424–630)	36.1	605		[1981WIE/KOB, 1980WIE/KOB]
	V	(306–346)	53.8	326		[1981EDW/PRA, 1999DYK/SVO]
$C_8H_6S_2$	[492-97-7]	2,2′-bithiophene				
	FUS		16.5	304.2	DSC	[2006TEM/ROU]
	SUB	(275–291)	86.0 ± 0.4	283	ME	[2009RIB/SAN]
	SUB	(275–291)	85.2 ± 0.4	298	ME	[2009RIB/SAN]
$C_8H_6S_2$	[3172-56-3]	3,3′-biothiophene				
	FUS		21.3	406.2	DSC	[2011COS/LIM]
	SUB	(301–317)	88.6 ± 0.3	309	ME	[2009RIB/SAN]
	SUB	(301–317)	89.2 ± 0.3	298	ME	[2009RIB/SAN]
C_8H_7Br	[2039-88-5]	2-bromostyrene				
	V	(378–543)	48.7	393	A	[1987STE/MAL, 1970DYK/VAN]
C_8H_7Br	[2039-82-9]	4-bromostyrene				
	V	(393–420)	48.5	406		[1999DYK/SVO]
	V	(383–543)	49.9	398	A	[1987STE/MAL, 1970DYK/VAN]
C_8H_7Br	[70-11-1]	2-bromoacetophenone				
	SUB		90.9 ± 1.1	298	C	[2014AMA/RIB2]
C_8H_7Br	[2142-69-0]	2′-bromoacetophenone				
	V		64.9 ± 1.3	298	C	[2014AMA/RIB2]
C_8H_7Br	[2142-63-4]	3′-bromoacetophenone				
	V		66.6 ± 1.0	298	C	[2014AMA/RIB2]
C_8H_7Br	[99-90-1]	4′-bromoacetophenone				
	FUS				DSC	[2016ALM/MON]
	SUB	(295–319)	83.1 ± 0.3	307	Static	[2016ALM/MON]
	SUB	(295–319)	83.3 ± 0.3	298	Static	[2016ALM/MON]
	SUB		84.5 ± 1.0	298	C	[2014AMA/RIB2]
	V	(305–378)	63.3 ± 0.1	342	Static	[2016ALM/MON]
	V	(305–378)	66.4 ± 0.1	298	Static	[2016ALM/MON]
$C_8H_7BrO_2$	[619-42-1]	methyl 4-bromobenzoate				
	FUS		25.8	351.2	DSC	[2013ALM/MON]
	SUB	(293–349)	88.7 ± 0.1	321	Static	[2013ALM/MON]
	SUB	(293–349)	89.3 ± 0.2	298	Static	[2013ALM/MON]
	V	(355–378)	60.6 ± 0.2	367	Static	[2013ALM/MON]
	V	(355–378)	66.1 ± 0.4	298	Static	[2013ALM/MON]
C_8H_7Cl	[2039-87-4]	2-chlorostyrene				
	V	(363–523)	46.0	378	A	[1987STE/MAL, 1970DYK/VAN]
C_8H_7Cl	[2039-85-2]	3-chlorostyrene				
	V	(298–463)	46.1	313	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
C_8H_7Cl	[1073-67-2]	4-chlorostyrene				
	V	(363–523)	48.1	378	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_7ClN_2O_2$	[14722-82-8]	*N*-(2-chlorophenyl)-2-(hydroxyimino)acetamide				
	FUS		29.7	432.7	DTA	[1982CUE/SOL]
$C_8H_7ClN_2O_2S$	[364-98-7]	7-chloro-3-methyl-2*H*-1,2,4-benzothiadiazine 1,1-dioxide (diazoxide)				
	FUS		34.1	600.4	DSC	[2006WAS/HOL]
C_8H_7ClO	[532-27-4]	2-chloroacetophenone				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		87.7 ± 1.7	298	C	[2014AMA/RIB]
	SUB	(278–323)	90.7	293	TE	[1987STE/MAL, 1947BAL, 1960JON]
C_8H_7ClO	[2142-68-9]	2′-chloroacetophenone				
	V		60.1 ± 1.3	298	C	[2010RIB/AMA2]
C_8H_7ClO	[99-02-5]	3′-chloroacetophenone				
	V		64.0 ± 1.7	298	C	[2010RIB/AMA2]
C_8H_7ClO	[99-91-2]	4′-chloroacetophenone				
	FUS		15.3	290.3	DSC	[2016ALM/MON]
	V	(272–335)	61.9 ± 0.1	303	Static	[2016ALM/MON]
	V	(272–335)	62.2 ± 0.1	298	Static	[2016ALM/MON]
	V		63.1 ± 1.7	298	C	[2010RIB/AMA2]
	V	(404–623)	54.0	419	A	[1987STE/MAL, 1999DYK/SVO]
	V	(395–485)	50.7	410		[1949DRE/SHR, 1949DRE/MAR, 1984BOU/FRI]
C_8H_7ClO	[103-80-0]	phenylacetyl chloride				
	V	(321–483)	56.5	336	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_8H_7ClO_2$	[501-53-1]	benzyl chloroformate				
	V	(293–303)	38.5 ± 0.1	298	BG	[1990DAV/FIN]
$C_8H_7ClO_2$	[2444-36-2]	(2-chlorophenyl)acetic acid				
	FUS		24.33	367.4	DSC	[2008RIB/FER3]
$C_8H_7ClO_2$	[1878-65-5]	(3-chlorophenyl)acetic acid				
	FUS		22.6	349.8	DSC	[2008RIB/FER3]
$C_8H_7ClO_2$	[1878-66-6]	(4-chlorophenyl)acetic acid				
	FUS		23.57	377.9	DSC	[2008RIB/FER3]
$C_8H_7ClO_2$	[1126-46-1]	methyl 4-chlorobenzoate				
	FUS		21.3	315.1	DSC	[2013ALM/MON]
	SUB	(277–312)	83.5 ± 0.1	295	Static	[2013ALM/MON]
	SUB	(277–312)	83.4 ± 0.1	298	Static	[2013ALM/MON]
	V	(285–334)	61.6 ± 0.1	310	Static	[2013ALM/MON]
	V	(285–334)	62.4 ± 0.1	298	Static	[2013ALM/MON]
$C_8H_7ClO_3$	[10421-85-9]	2-chloromandelic acid				
	FUS (α)		23.2	363.4	DSC	[2011LOR/VON]
	FUS (α)		23.1	363.1	DSC	[2010HE/ROH]
	FUS		23.1	363.5	DSC	[2009HE/ZHU]
	FUS		20.08	358.5		[1991CHI/BRA]
$C_8H_7ClO_3$	[52950-18-2]	(*R*)-2-chloromandelic acid				
	FUS		24.3	392.4	DSC	[2011LOR/VON]
	FUS		24.9	391.3	DSC	[2009HE/ZHU, 2010HE/ROH]
	FUS		24.69	392.5		[1991CHI/BRA]
$C_8H_7ClO_3$	[61008-98-8]	(*R*)-3-chloromandelic acid				
	FUS		22.55	376.4	DSC	[2010MIN/VON]
	FUS		26.24	378.8	DSC	[2009ZHA/RAY]
$C_8H_7ClO_3$	[16273-37-3]	(*R*, *S*)-3-chloromandelic acid				
	FUS		27.92	391.2	DSC	[2010MIN/VON]
	FUS		27.98	290.4	DSC	[2009ZHA/RAY]
$C_8H_7ClO_3$	[492-86-4]	*(dl)-p*-chloromandelic acid				
	FUS		27.2	394		[1991CHI/BRA]
$C_8H_7ClO_3$	[32189-36-9]	(*d*)-*p*-chloromandelic acid				
	FUS		23.01	394		[1991CHI/BRA]
$C_8H_7ClO_3$	[122-88-3]	4-chlorophenoxyacetic acid				
	FUS		36.27	429.6	DSC	[1990DON/DRE]
$C_8H_7ClO_3$	[19463-48-0]	5-chloro-4-hydroxy-3-methoxybenzaldehyde				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		39.4	442.6	DSC	[2000LAR/LER]
$C_8H_7Cl_2NO$	[1918-18-9]	methyl-3,4-dichlorophenylcarbamate				
	FUS		23.19	381.4	DSC	[1990DON/DRE]
$C_8H_7Cl_3O_3$	[2539-26-6]	3,4,5-trichloro-2,6-dimethoxyphenol				
	V	(293–323)	77.4	308	CGC	[1999LEI/WAN2]
C_8H_7FO	[450-95-3]	2-fluoroacetophenone				
	V	(273–333)	62	288	A, GS	[1987STE/MAL, 1948RED/CHA4, 1999DYK/SVO]
C_8H_7FO	[403-42-9]	4′-fluoroacetophenone				
	FUS		14.2	269.0	DSC	[2016ALM/MON]
	V	(255–310)	57.4 ± 0.1	283	Static	[2016ALM/MON]
	V	(255–310)	56.5 ± 0.1	298	Static	[2016ALM/MON]
$C_8H_7FO_2$	[403-33-8]	methyl 4-fluorobenzoate				
	FUS		15.5	273.7	DSC	[2013ALM/MON]
	V	(269–344)	55.4 ± 0.1	307	Static	[2013ALM/MON]
	V	(269–344)	56.0 ± 0.1	298	Static	[2013ALM/MON]
$C_8H_7FO_3$	[395-05-1]	*(dl)*-*m*-fluoromandelic acid				
	FUS		24.69	370		[1991CHI/BRA, 1994LAR/MAR]
$C_8H_7FO_3$		(*d*)-*m*-fluoromandelic acid				
	FUS		24.27	394		[1991CHI/BRA]
$C_8H_7FO_3$	[389-31-1]	*(dl)*-*o*-fluoromandelic acid				
	FUS		30.12	390		[1991CHI/BRA, 1994LAR/MAR]
$C_8H_7FO_3$	[32222-48-3]	(*d*)-*o*-fluoromandelic acid				
	FUS		20.92	363		[1991CHI/BRA]
$C_8H_7FO_3$	[395-33-5]	*(dl)*-*p*-fluoromandelic acid				
	FUS		29.29	403		[1991CHI/BRA, 1994LAR/MAR]
$C_8H_7FO_3$		(*d*)-*p*-fluoromandelic acid				
	FUS		30.54	426		[1991CHI/BRA]
$C_8H_7F_3$	[21249-93-4]	1,1,1-trifluoro-2-phenylethane				
	V	(273–313)	46.1 ± 0.3	298	GS	[1997SCH/VER]
C_8H_7IO	[13329-40-3]	4′-iodoacetophenone				
	FUS		23.5	357.6	DSC	[2016ALM/MON]
	SUB	(313–352)	91.8 ± 0.1	333	Static	[2016ALM/MON]
	SUB	(313–352)	92.8 ± 0.1	298	Static	[2016ALM/MON]
	V	(349–402)	65.4 ± 0.1	375	Static	[2016ALM/MON]
	V	(349–402)	71.0 ± 0.6	298	Static	[2016ALM/MON]
$C_8H_7IO_2$	[619-44-3]	methyl 4-iodobenzoate				
	FUS		29.7	386.7	DSC	[2013ALM/MON]
	SUB	(313–380)	95.2 ± 0.1	347	Static	[2013ALM/MON]
	SUB	(313–380)	97.0 ± 0.4	298	Static	[2013ALM/MON]
	V	(386–496)	62.6 ± 0.3	396	Static	[2013ALM/MON]
	V	(386–496)	65.2 ± 0.5	298	Static	[2013ALM/MON]
C_8H_7N	[140-29-4]	benzylcyanide				
	V	(283–328)	60.1 ± 0.7	306	GS	[2000VER]
	V	(283–328)	60.5 ± 0.7	298	GS	[2000VER]
	V	(333–507)	54.8	348	A	[1987STE/MAL, 1947STU]
C_8H_7N	[529-19-1]	2-tolunitrile				
	V	(287–324)	54.8 ± 0.3	298	GS	[2015ZAI/EME]
	V	(309–479)	50.8	324	A	[1987STE/MAL, 1947STU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_7N	[620-22-4]	3-tolunitrile				
	V	(280–414)	57.5 ± 0.4	298	GS	[2015ZAI/EME]
C_8H_7N	[104-85-8]	4-tolunitrile				
	FUS		16.1	299.3	DSC	[2015ZAI/EME]
	V	(302–335)	55.9 ± 0.4	298	GS	[2015ZAI/EME]
	V	(315–491)	48.0	330	A	[1987STE/MAL, 1947STU]
C_8H_7N	[10468-64-1]	2-tolylisocyanide				
	V	(298–457)	48.5	313	A	[1987STE/MAL, 1947STU]
C_8H_7N	[120-72-9]	indole				
	FUS		10.6	325.9	DSC	[2011VER/EME3]
	SUB	(290–325)	73.9 ± 0.4	298	GS	[2011VER/EME3]
	SUB	(275–291)	78.4 ± 1.4	283	ME	[2008RIB/CAB3]
	SUB	(275–291)	77.6 ± 1.1	298	ME	[2008RIB/CAB3]
	SUB	(291–319)	75.0	305	A	[1987STE/MAL]
	SUB	(275–303)	77.8 ± 1.6	289	ME	[1974ARS]
	SUB	(283–301)	70.0	292		[1955AIH2]
	SUB	(283–328)	74.9	305		[1954SER/VOI, 1960JON]
	V	(328–355)	65.3 ± 0.6	298	GS	[2011VER/EME3]
	V		57.3		GC	[1996GOV/RUT]
C_8H_7NO	[3173-56-6]	benzyl isocyanate				
	V	(333–393)	42.3	348	A	[1987STE/MAL]
C_8H_7NO	[59-48-3]	oxindole				
	FUS		18.74	398.9	DSC	[2010MIR/MAT]
	SUB		99.7 ± 2.5	298	C	[2010MIR/MAT]
C_8H_7NO	[95-21-6]	2-methylbenzoxazole				
	FUS		11.5	280.1	DSC	[2013FLO/MEN]
	V		57.1 ± 1.3	298	C	[2013SIL/CIM3]
C_8H_7NOS	[5325-20-2]	1,4-benzothiazin-3(2*H*,4*H*)-one				
	FUS		25.29	451.4	DSC	[2011MIR/MAT2]
	SUB		117.9 ± 3.8	298	C	[2011MIR/MAT2]
$C_8H_7NO_2$	[5466-88-6]	2*H*-1,4-benzoxazin-3(4*H*)-one				
	FUS		22.8	445.6	DSC	[2006MAT/MIR]
	SUB		106.4 ± 3.0	298	C	[2006MAT/MIR]
$C_8H_7NO_3$	[577-59-3]	2′-nitroacetophenone				
	V	(293–333)	103.6	308	A	[1987STE/MAL]
$C_8H_7NO_3$	[121-89-1]	3′-nitroacetophenone				
	SUB	(300–322)	98.6 ± 0.4	311	ME	[2011RIB/AMA4]
	SUB	(300–322)	99.1 ± 0.4	298	ME	[2011RIB/AMA4]
	SUB	(293–343)	110	308	A	[1987STE/MAL]
$C_8H_7NO_3$	[100-19-6]	4′-nitroacetophenone				
	SUB	(302–322)	96.5 ± 0.5	312	ME	[2011RIB/AMA4]
	SUB	(302–322)	97.0 ± 0.5	298	ME	[2011RIB/AMA4]
$C_8H_7NO_4$	[16498-20-7]	2,3-dihydro-6-nitro-1,4-benzodioxin				
	FUS		24.27	394	DSC	[2008MAT/SOU2]
	SUB		100.6 ± 1.2	298	C	[2008MAT/SOU2]
$C_8H_7NO_4$	[606-27-9]	2-nitrobenzoic acid, methyl ester				
	V	(423–453)	56.1	438	A	[1987STE/MAL]
$C_8H_7NO_4$	[610-69-5]	(2-nitrophenyl) acetate				
	V	(373–526)	71.1	388	A	[1987STE/MAL, 1947STU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_7NO_4$	[1975-50-4]	2-methyl-3-nitrobenzoic acid				
	SUB		119.5 ± 2.3	298	ME	[2001MON/HIL3]
$C_8H_7NO_4$	[13506-76-8]	2-methyl-6-nitrobenzoic acid				
	SUB		120.0 ± 2.2	298	ME	[2001MON/HIL3]
$C_8H_7NO_4$	[5437-38-7]	3-methyl-2-nitrobenzoic acid				
	SUB		124.4 ± 2.7	298	ME	[2001MON/HIL3]
$C_8H_7NO_4$	[3113-71-1]	3-methyl-4-nitrobenzoic acid				
	SUB		119.3 ± 2.5	298	ME	[2001MON/HIL3]
$C_8H_7NO_4$	[96-98-0]	4-methyl-3-nitrobenzoic acid				
	SUB		118.6 ± 2.5	298	ME	[2001MON/HIL3]
$C_8H_7NO_4$	[3113-72-2]	2-methyl-3-nitrobenzoic acid				
	SUB		118.7 ± 2.2	298	ME	[2001MON/HIL3]
$C_8H_7NO_5$	[4920-80-3]	3-methoxy-2-nitrobenzoic acid				
	SUB	(398–410)	136.6 ± 1.3	404	ME	[1999RIB/MAT]
	SUB	(398–410)	141.9 ± 1.3	298	ME	[1999RIB/MAT]
$C_8H_7NO_5$	[89-41-8]	4-methoxy-3-nitrobenzoic acid				
	SUB	(387–401)	126.5 ± 0.8	394	ME	[1999RIB/MAT]
	SUB	(387–401)	131.2 ± 0.8	298	ME	[1999RIB/MAT]
$C_8H_7NO_5$	[5081-36-7]	3-methoxy-4-nitrobenzoic acid				
	SUB	(388–402)	126.1 ± 1.1	395	ME	[1999RIB/MAT]
	SUB	(388–402)	131.0 ± 1.1	298	ME	[1999RIB/MAT]
C_8H_7NS	[622-78-6]	benzyl isothiocyanate				
	V	(352–516)	62.2	367	A	[1987STE/MAL, 1947STU]
C_8H_7NS	[120-75-2]	2-methylbenzothiazole				
	FUS		13.1	287.1	DSC	[2013FLO/MEN]
	V		61.7 ± 1.4	298	C	[2014SIL/CIM]
	V	(343–499)	61.3	358	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_8H_7N_3O_2$	[1660-15-7]	3,6-diaminophthalimide				
	SUB	(461–508)	98.5	476	A	[1987STE/MAL, 1956KLO]
$C_8H_7N_3O_6$	[38677-56-4]	2,2,2-trinitro-1-phenylethane				
	SUB	(293–308)	84.1 ± 0.4	301	ME	[1972PEP/MAT, 1977PED/RYL, 1987STE/MAL]
$C_8H_7N_3O_6$	[632-92-8]	3-methyl-2,4,6-trinitrotoluene				
	FUS		38.49	455.4		[1919BEL/SAW]
	SUB		122.6		DSC	[1990HWA/YOS]
	SUB	(319–411)	129.8 ± 1.1	365	ME	[1987STE/MAL, 1978CUN/PAL]
	V		87.9		DSC	[1990HWA/YOS]
$C_8H_7N_3O_7$	[4732-14-3]	2,4,6-trinitrophenetole				
	SUB	(352–364)	79.0	358	A	[1987STE/MAL]
	SUB		120.5 ± 2.1			[1950NIT/SEK3, 1970COX/PIL]
	V	(342–351)	120.5	346	A	[1987STE/MAL]
$C_8H_7N_5O_8$	[43072-20-4]	2,4,6,-trianitro-*N*-(nitromethyl)-*m*-toluidine				
	FUS		19.33	375.6	DSC	[1996DOM/HEA, 1973KRI/LIC]
$C_8H_7N_5O_8$	[6052-13-7]	2,4,6-*N*-tetranitro-*N*-ethylaniline				
	FUS		23.51	369	DSC	[1996DOM/HEA, 1973KRI/LIC]
C_8H_8	[277-10-1]	cubane				
	TRS		5.94	394		
	FUS		8.7	404.9	AC	[1992WHI/WAS]
	SUB		55.2 ± 2.0	298	AC + CGC	[2004BAS/CHI]
	SUB	(239–262)	80.3 ± 1.6	298	ME	[1966KYB/CAR, 1970COX/PIL, 1987STE/MAL, 2003DIK/FRE]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
[Note: In reference [2003DIK/FRE] the authors state that the value of 80.3 kJ/mole from [1966KYB/CAR] pertains to the average temperature and not to 298 K. The authors give a value of 79.1 ± 1.7 for the 298 K value.]						
	V		44.6 ± 0.8	298	CGC	[2004BAS/CHI]
C_8H_8	[629-20-9]	cyclooctatetraene				
	FUS		11.25	268.5		[1996DOM/HEA, 1949SCO/GRO]
	SUB		54.4		B	[1949SCO/GRO]
	V	(273–348)	43.9	288	A	[1987STE/MAL, 1949SCO/GRO]
	V	(273–348)	43.1	298		[1949SCO/GRO]
C_8H_8	[500-24-3]	bicyclo[2.2.2]octa-2,5,7-triene				
	V		42.9 ± 0.1	298	C	[1985KUS]
C_8H_8	[16607-77-5]	1,5,7-octatriene-3-yene				
	V	(313–429)	35.1	328	A	[1987STE/MAL]
C_8H_8	[100-42-5]	styrene				
	FUS		10.96	242.3		[1961WAR/PET]
	FUS	(14–300)	10.96	242.3		[1996DOM/HEA, 1946PIT/GUT]
	FUS		10.95	242.5		[1943GUT/WES]
	FUS		11.07	242.6		[1943WOO/HIG]
	V	(332–373)	41.4	350	EB	[2011JON/MAA]
	V	(245–334)	42.5	260	A	[1987STE/MAL]
	V	(334–419)	41.5	349	A	[1987STE/MAL]
	V	(333–343)	39.9	338		[1968GAR/BOV]
	V	(306–333)	42.5	319		[1959CHA/VAN]
	V	(303–417)	43.1	318		[1955DRE/MAR]
	V	(285–333)	43.9	298		[1946PIT/GUT]
	V		43.5 ± 0.4	298		[1946PIT/GUT]
	V	(306–389)	40.2	348		[1942BUR]
	V	(245–357)	43.2	298		[1939PAT/SCH]
C_8H_8	[116316-76-8]	1-cyclopropyl-1,3-pentadiene				
	V		51.9 ± 0.1	298	C	[2007PAS/KUZ]
$C_8H_8BrCl_2O_3PS$	[2104-96-3]	*O*-(4-bromo-2,5-dichlorophenyl) *O*, *O*-dimethylphosphorothioate				
	FUS		31.15	325.3	DSC	[1990DON/DRE]
C_8H_8BrNO	[103-88-8]	4-bromoacetanilide				
	FUS		26.0	440.3		[2009BAR/ESP]
	FUS		25.8	441.2	DSC	[2004VEC/CAT]
	SUB		110 ± 4	298	F + V	[2009VEC/TOM]
	V		78 ± 2	480	TGA	[2009VEC/TOM]
	V		77 ± 1	460	TGA	[2009VEC/TOM]
$C_8H_8Br_2$	[93-52-7]	(1,2-dibromoethyl)benzene				
	V	(359–527)	64.9	374	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_8Br_2$	[91-13-4]	α, α'-dibromo-*o*-xylene				
	FUS		26.78	368.2		[1991ACR, 1983WEA]
$C_8H_8Br_2$	[626-15-3]	α, α'-dibromo-*m*-xylene				
	FUS		23.69	350.2		[1991ACR, 1983WEA]
$C_8H_8ClNO_2$	[3942-54-9]	*N*-methyl-2-chlorophenylcarbamic acid ester				
	FUS		21.81	362.7	DSC	[1990DON/DRE]
$C_8H_8ClNO_4$	[6940-53-0]	1-chloro-2,5-dimethoxy-4-nitrobenzene				
	FUS		28.02	413.7	DSC	[2015ZHA/JIN]
$C_8H_8Cl_2$	[1124-05-6]	2,5-dichloro-1,4-dimethylbenzene				
	V	(393–573)	52.7	408	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_8Cl_2$	[54484-61-6]	2,5-dichloro-1,4-dimethylbenzene				
	V	(319–495)	48.9	334	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_8Cl_2$	[54484-63-8]	2,5-dichloro-1,4-dimethylbenzene				
	V	(311–490)	46.0	326	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_8Cl_2$	[6623-59-2]	3,4-dichloro-1-ethylbenzene				
	V	(320–500)	49.3	335	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_8Cl_2$	[93-52-7]	1,4-bis(chloromethyl)benzene				
	V	(412–504)	50.8	427		[1999DYK/SVO]
$C_8H_8Cl_2$	[612-12-4]	α, α'-dichloro-*o*-xylene				
	FUS		21.26	328.2		[1991ACR, 1983WEA]
$C_8H_8Cl_2$	[626-16-4]	α, α'-dichloro-*m*-xylene				
	FUS		19.51	307.2		[1991ACR, 1983WEA]
$C_8H_8Cl_2$	[623-25-6]	α, α'-dichloro-*p*-xylene				
	FUS		23.97	373.2		[1991ACR, 1983WEA]
$C_8H_8Cl_2O_2$	[120-67-2]	2-(2,4-dichlorophenoxy)ethanol				
	V	(484–560)	65.1	499	A	[1959MCD/SHR, 1984BOU/FRI, 1999DYK/SVO, 1987STE/MAL]
$C_8H_8Cl_2O_2$	[2675-77-6]	1,4-dichloro-2,5-dimethoxybenzene				
	FUS		27.56	403.9	DSC	[1991ACR, 1990DON/DRE]
$C_8H_8Cl_2O_3$	[78782-46-4]	3,5-dichloro-2,6-dimethoxyphenol				
	V	(293–323)	70.4	308	CGC	[1999LEI/WAN2]
$C_8H_8Cl_2O_3$	[6597-78-0]	methyl 3,6-dichloro-2-methoxybenzoate				
	FUS		18.49	304.6	DSC	[1990DON/DRE]
$C_8H_8Cl_3O_3PS$	[299-84-3]	*O*, *O*-dimethyl-*O*-(2,4,5-trichlorophenyl)thiophosphate				
	FUS		18.94	313	DSC	[1990DON/DRE]
	V	(298–373)	56.8	313	A	[1987STE/MAL]
$C_8H_8N_2$	[1632-83-3]	1-methylbenzimidazole				
	FUS		13.9	329.9	DSC	[2014ALM/MON2]
	FUS		13.5	333.2	DSC	[2012GAR/VER]
	SUB	(301–329)	86.1 ± 0.2	298	Static	[2014ALM/MON2]
	SUB	(301–327)	87.1 ± 0.5	298	GS	[2012GAR/VER]
	V	(303–372)	73.7 ± 0.2	298	Static	[2014ALM/MON2]
	V	(314–376)	70.9	345	GS	[2013ZAI/YER]
	V	(314–376)	74.4 ± 0.2	298	GS	[2012GAR/VER, 2013ZAI/YER]
$C_8H_8N_2$	[615-15-6]	2-methylbenzimidazole				
	TRS		0.59	383.9		
	FUS		20.49	451.4	DSC	[2002DOM/KOZ]
$C_8H_8N_2O_2$	[3665-80-3]	*N*-ethyl-4-nitroaniline				
	FUS		22.7	368.21	DSC	[2013TRA/KHI]
$C_8H_8N_2O_2$	[32692-19-6]	5-nitroindoline				
	SUB	(338–360)	109.8 ± 0.8	298	ME	[2009RIB/CAB]
$C_8H_8N_2O_2$	[88-96-0]	1,2-benzenedicarboxamide				
	SUB		57.3 ± 4.2		ME	[1972HAM/WIT, 1977PED/RYL]
$C_8H_8N_2O_2$	[1740-57-4]	1,3-benzenedicarboxamide				
	SUB		54.4 ± 4.2		ME	[1971HAM/WIT, 1977PED/RYL]
$C_8H_8N_2O_2$	[3010-82-0]	1,4-benzenedicarboxamide				
	SUB	(373–498)	57.3 ± 4.2			[1972HAM/WIT]
$C_8H_8N_2O_2$	[1769-41-1]	2-(hydroxyimino)-*N*-phenylacetamide				
	FUS		10.4	453.1	DTA	[1982CUE/SOL]
$C_8H_8N_2O_3$	[552-32-9]	2′-nitroacetanilide				
	V	(473–593)	44.0	488	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_8N_2S$	[1477-42-5]	2-amino-4-methylbenzothiazole				
	FUS		15.91	410.7	DSC	[2014CAM/MEN]
$C_8H_8N_2S$	[2536-91-6]	2-amino-6-methylbenzothiazole				
	FUS		20.04	412.5	DSC	[2014CAM/MEN]
$C_8H_8N_4O_3$	[1455-87-4]	4-*N*, *N*-dimethylamino-7-nitrobenzofurazan				
	SUB		134.2 ± 3.4	298	ME	[2014SAN/SIL]
C_8H_8O	[529-20-4]	2-methylbenzaldehyde				
	V		52.5 ± 0.2	298	GS	[2013EME/VER]
C_8H_8O	[620-23-5]	3-methylbenzaldehyde				
	V		53.7 ± 0.3	298	GS	[2013EME/VER]
C_8H_8O	[104-87-0]	4-methylbenzaldehyde				
	V		53.5 ± 0.4	298	GS	[2013EME/VER]
C_8H_8O	[98-86-2]	acetophenone				
	TRS		1.36	289.7		[2006SED/MAI]
	FUS		16.65	292.7		[1911LOU/DUP, 2006SED/MAI]
	V	(360–520)	55.4 ± 0.4	298	EB	[1996STE/CHI]
	V	(360–520)	52.6 ± 0.4	340	EB	[1996STE/CHI]
	V	(360–520)	50.1 ± 0.3	380	EB	[1996STE/CHI]
	V	(360–520)	47.5 ± 0.3	420	EB	[1996STE/CHI]
	V	(360–520)	45.0 ± 0.4	460	EB	[1996STE/CHI]
	V	(360–520)	42.2 ± 0.4	500	EB	[1996STE/CHI]
	V	(343–383)	53.4	298	CGC	[1995CHI/HOS]
	V	(343–383)	52.7	298	CGC	[1995CHI/HOS]
	V	(343–383)	57.9	298	CGC	[1995CHI/HOS]
	V	(375–603)	49.7	390	A	[1987STE/MAL]
	V	(383–437)	41.9	398	GS, EB	[1965COL/COU]
	V	(310–476)	51.2	325		[1947STU]
C_8H_8O	[496-14-0]	1,3-dihydroisobenzofuran (phthalan)				
	V	(285–510)	53.7 ± 0.4	298	EB	[1996STE/CHI3]
	V	(285–510)	52.2 ± 0.4	320	EB	[1996STE/CHI3]
	V	(285–510)	49.6 ± 0.3	360	EB	[1996STE/CHI3]
	V	(285–510)	47.0 ± 0.3	400	EB	[1996STE/CHI3]
	V	(285–510)	44.4 ± 0.3	440	EB	[1996STE/CHI3]
	V	(285–510)	41.6 ± 0.5	480	EB	[1996STE/CHI3]
C_8H_8O	[496-16-2]	2,3-dihydrobenzofuran				
	V	(279–333)	53.2 ± 0.2	298	GS	[2011VER/EME]
C_8H_8O	[122-78-1]	phenylacetaldehyde				
	V	(293–343)	59.8 ± 0.3	298	GS	[2007EME/DAB]
	V	(283–333)	54.5	298	A	[1987STE/MAL]
$C_8H_8O_2$	[493-09-4]	1,4-benzodioxan				
	V		67.4 ± 1.7	298	C	[2008MAT/SOU2]
	V	(400–486)	50.4	415	A	[1987STE/MAL, 1958CAS/FLE2]
$C_8H_8O_2$	[104-57-4]	benzyl formate				
	V	(298–357)	51.6	313	A	[1987STE/MAL]
$C_8H_8O_2$	[118-93-4]	2′-hydroxyacetophenone				
	FUS		13.0	278.5	DSC	[2008BER/MIN]
	V		58.3 ± 0.3	298	C	[2008BER/MIN]
	V	(369–491)	58.3	384	A	[1987STE/MAL]
	V		50.2			[1986BAL/GNA]
$C_8H_8O_2$	[121-71-1]	3′-hydroxyacetophenone				
	FUS		23.4	366.7	DSC	[2005CHE/TAN]
$C_8H_8O_2$	[99-93-4]	4′-hydroxyacetophenone				
	FUS		18.08	382.8	DSC	[2008BER/PIE]
	FUS		17.0	381.3	DSC	[2005CHE/TAN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB (monoclinic)		100.9 ± 0.8	348	C	[2008BER/PIE]
	SUB (monoclinic)		103.2 ± 0.8	298	C	[2008BER/PIE]
	SUB (orthorhombic)		104.3 ± 0.4	348	C	[2008BER/PIE]
	SUB (monoclinic)		101.8 ± 2.7	327	ME	[2008BER/PIE]
	SUB (monoclinic)		103.3 ± 2.7	298	ME	[2008BER/PIE]
	SUB	(320–349)	95.7	335	A	[1987STE/MAL, 1960AIH]
$C_8H_8O_2$	[123-11-5] 4-methoxybenzaldehyde					
	V	(348–521)	58.4	363	A, EB	[1985SCH/BRU]
	V	(283–323)	60.4	298	A	[1987STE/MAL, 1955SER/VOI]
	V	(346–521)	57.1	361	A	[1987STE/MAL, 1947STU]
$C_8H_8O_2$	[93-58-3] methyl benzoate					
	FUS	(5–320)	14.8	260.8	AC	[2002BLO/PAU]
	FUS		14.83	260.8		[1998MAK/KAB]
	FUS		13.9	261		[1978DOZ/FUJ]
	V	(358–517)	51.1 ± 0.2	360	EB	[2002STE/CHI2]
	V	(358–517)	48.5 ± 0.2	400	EB	[2002STE/CHI2]
	V	(358–517)	45.8 ± 0.2	440	EB	[2002STE/CHI2]
	V	(358–517)	43.0 ± 0.4	480	EB	[2002STE/CHI2]
	V		57.2 ± 0.1	303	C	[1998MAK/KAB]
	V	(313–353)	53.4	298	CGC	[1995CHI/HOS]
	V	(313–363)	53.8	298	CGC	[1995CHI/HOS]
	V	(433–473)	54.7	298	CGC	[1995CHI/HOS]
	V	(334–428)	50.7	379	BG	[1988KAT2]
	V	(334–428)	48.3	410	BG	[1988KAT2]
	V	(283–323)	53.9	298	A	[1987STE/MAL]
	V	(373–533)	49.7	388	A	[1987STE/MAL]
	V		55.6 ± 0.1	298	C	[1972COL/LAY, 1971KUS/WAD2]
	V	(341–433)	52.8	363	BG	[1971HAL/BAL]
$C_8H_8O_2$	[118-90-1] 2-methylbenzoic acid					
	FUS		18.14	376.5	DSC	[1985DOM/HOF, 1989DOM]
	FUS		20.04		DSC	[1983HOL]
	FUS		20.17	376.9		[1991ACR, 1926AND/LYN]
	SUB	(331–373)	95.5 ± 0.5	352	GS	[2015VER/ZAI]
	SUB	(331–373)	96.9 ± 0.6	298	GS	[2015VER/ZAI]
	SUB	(297–337)	95.9 ± 0.1	298	ME	[1986COL/JIM]
	SUB		U137.7 ± 0.5		DSC	[1983HOL]
$C_8H_8O_2$	[99-04-7] 3-methylbenzoic acid					
	FUS		15.73	381.9		[1991ACR, 1926AND/LYN]
	SUB	(303–323)	97.0 ± 0.3	298	ME	[1986COL/JIM]
	V	(473–533)	62.8	503	A	[1987STE/MAL, 1970MUL/GAL]
$C_8H_8O_2$	[99-94-5] 4-methylbenzoic acid					
	FUS		22.3	453.3	DSC	[2015VER/ZAI]
	FUS		15.0	449.2	DSC	[2000KAN/SAM]
	FUS		22.72	452.8		[1991ACR, 1926AND/LYN]
	SUB	(347–408)	94.1 ± 1.1	377	TGA	[2015VER/ZAI]
	SUB	(347–408)	96.2 ± 1.3	298	TGA	[2015VER/ZAI]
	SUB	(340–399)	95.8 ± 0.2	370	GS	[2015VER/ZAI]
	SUB	(340–399)	97.6 ± 0.4	298	GS	[2015VER/ZAI]
	SUB	(320–337)	98.6 ± 0.6	298	ME	[2004MON/ALM]
	SUB	(318–337)	98.8 ± 0.3	298	ME	[1986COL/JIM]
$C_8H_8O_2$	[122-79-2] phenyl acetate					
	V	(313–363)	53.3	298	CGC	[1995CHI/HOS]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(433–473)	53.6	298	CGC	[1995CHI/HOS]
	V	(313–353)	53.1	298	CGC	[1995CHI/HOS]
	V	(311–469)	51.7	326	A	[1987STE/MAL, 1947STU]
$C_8H_8O_2$	[103-82-2]	phenylacetic acid				
	FUS		32.0		DSC	[2003SHA/KAN]
	FUS		15.2	349.2	DSC	[2002GRA/RAS]
	FUS		16.5	350.8	DSC	[2001MON/HIL]
	FUS		14.49	349.9	DSC	[1991ACR, 1983WEA]
[Note: There is a large discrepancy between the value of 32.0 kJ/mole and the other reported literature values. Reference [2003SHA/KAN] quotes a literature value of 32.0 kJ/mole; however, the authors do not provide the source of the cited literature value.]						
	SUB	(307–339)	93.5 ± 0.3	298	GS	[2004ROU/TEM]
	SUB	(305–321)	98.6 ± 0.4	313	ME	[2001MON/HIL]
	SUB	(305–321)	99.0 ± 0.6	298	ME	[2001MON/HIL]
	V	(353–392)	79.1 ± 0.3	298	GS	[2004ROU/TEM]
	V	(370–539)	65.0	385	A	[1987STE/MAL]
$C_8H_8O_2$	[137-18-8]	2,5-dimethyl-1,4-benzoquinone				
	SUB	(273–293)	77.0	283	QF	[1927COO/COO, 1960JON, 1987STE/MAL]
$C_8H_8O_2$	[7145-99-5]	5-methyl-1,3-benzodioxole				
	V		54.9 ± 1.2	298	C	[2007MAT/SOU]
$C_8H_8O_2$	[16806-93-2]	6,7-dihydro-4(5*H*)-benzofuranone				
	V		69.4 ± 2.2	298	C	[2013SOS/MOR]
$C_8H_8O_2S$	[5535-48-8]	phenyl vinyl sulfone				
	FUS		11.72	343.4		[1969MAC/MCN]
	SUB		82 ± 2.5		B	[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_8H_8O_3$	[935-79-5]	*cis*-4-cyclohexene-1,2-dicarboxylic acid anhydride				
	V	(325–525)	53.1 ± 0.1			[1984NUR/MEK]
$C_8H_8O_3$	[2426-02-0]	1-cyclohexene-1,2-dicarboxylic acid anhydride				
	FUS	(80–360)	11.88	343.5	AC	[2004LU/TAN]
$C_8H_8O_3$	[25326-19-6]	5,6-dioxycarbony[2.2.1]bicyclohept-2-ene				
	TRS		0.9	323.6		
	TRS		8.7	342.4		
	FUS		3.6	388.4	DSC	[1987CUR/ASR]
$C_8H_8O_3$	[99-76-3]	4-hydroxybenzoic acid, methyl ester (methyl paraben)				
	FUS		25.3	400.5	DSC	[2014SUG/KAI]
	FUS		26.3	398.6	DSC	[2011UMN/CHI]
	FUS		25.3	399.2	DSC	[1999GIO/BET]
	FUS		24.31	398.5		[1990MAN/AHU]
	SUB	(323–345)	107.1 ± 0.1	334	ME	[2014ALM/CUN]
	SUB	(323–345)	108.4 ± 0.6	298	ME	[2014ALM/CUN]
	SUB	(339–396)	108.8 ± 0.9	367	Static	[2014ALM/CUN]
	SUB	(339–396)	106.4 ± 0.1	298	Static	[2014ALM/CUN]
	SUB	(303–327)	98.8 ± 0.8	298	GS	[2005PER/ROD]
	V	(383–423)	87.1 ± 1.6	397	Static	[2014ALM/CUN]
	V	(383–423)	79.0 ± 0.1	298	Static	[2014ALM/CUN]
	V		79.5 ± 0.5	298	CGC	[2011UMN/CHI]
	V		83.1	298	CGC	[2005TEM/ROU, 2011UMN/CHI]
	V	(446–517)	81.5	461	A	[1987STE/MAL]
$C_8H_8O_3$	[119-36-8]	methyl salicylate				
	V	(333–433)	U56.2	298	GC	[2005HOS/GRY]
	V		52.3		TG,DTA	[2001CHE/HUA]
	V	(327–497)	59.9	342	A	[1987STE/MAL]
	V	(329–496)	58.7	344	A	[1987STE/MAL]
	V	(288–333)	56.9	303		[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_8O_3$	[148-53-8]	2-hydroxy-3-methoxybenzaldehyde				
	SUB	(282–303)	54.1	292.5	A	[1987STE/MAL]
$C_8H_8O_3$	[121-33-5]	4-hydroxy-3-methoxybenzaldehyde (vanillin)				
	FUS		24.8	354.8	DSC	[2015SIN/SIN2]
	FUS		19.52	357.2	DTA	[2013KAN]
	FUS (I)		22.4	355.2		
	FUS (II)		20.7	353.2	DSC	[2010BRA/GRE]
	FUS		22.35	354.6	DSC	[2008SIN/DAS, 2012GUP/AGR]
	FUS		22.4	355.4	DSC	[2008TEM/ROU]
	FUS		16.13		DSC	[1992SHA/SHA]
	SUB	(293–353)	88.7	323		[1953SER/VOI, 1960JON]
	V	(353–463)	66.9	298	GC	[2005HOS/GRY]
	V	(380–558)	66.9	395	A	[1987STE/MAL, 1947STU]
$C_8H_8O_3$	[579-75-9]	2-methoxybenzoic acid				
	FUS		23.9	374.7	DSC	[2015VER/ZAI]
	FUS		24.0	374.6	DSC	[2008PER/VOL]
	SUB	(342–371)	106.3 ± 0.9	298	GS	[2015JAK/SPO]
	SUB	(344–370)	104.7 ± 0.4	357	GS	[2015VER/ZAI]
	SUB	(344–370)	106.7 ± 0.6	298	GS	[2015VER/ZAI]
	SUB	(318–368)	104.7 ± 0.1	343	Static	[2015VER/ZAI]
	SUB	(318–368)	106.2 ± 0.4	298	Static	[2015VER/ZAI]
	SUB	(309–363)	110.7 ± 0.8	298	GS	[2008PER/VOL]
	SUB	(318–353)	101.2	333	A	[1987STE/MAL]
	SUB		104.7 ± 0.3	298	ME	[1978COL/JIM]
	SUB	(353–368)	90.8 ± 0.4	360	GS	[1973MAL/GIG, 1987STE/MAL]
	SUB	(353–368)	90.9	360	GS	[1954DAV/JON, 1960JON]
	V	(378–413)	75.4 ± 0.1	394	Static	[2015VER/ZAI]
	V	(378–413)	86.0 ± 0.8	298	Static	[2015VER/ZAI]
	V		91.8	298	S-F	[2008PER/VOL]
$C_8H_8O_3$	[586-38-9]	3-methoxybenzoic acid				
	FUS		21.9	382.1	DSC	[2015VER/ZAI]
	FUS (I)		23.2	378.6		
	FUS (II)		19.8	367.2	DSC	[2015PER/CAS]
	FUS		24.9	378.7	DSC	[2008PER/VOL]
	SUB	(310–349)	114.7 ± 0.8	298	GS	[2008PER/VOL]
	SUB		107.5 ± 0.4	298	ME	[1987STE/MAL, 1978COL/JIM]
	V		95	298	S-F	[2008PER/VOL]
$C_8H_8O_3$	[100-09-4]	4-methoxybenzoic acid				
	FUS		28.97	455.3	DSC	[2010FON/SAN]
	FUS		29.9	455.6	DSC	[2008PER/VOL]
	FUS		24.2	449.2	DSC	[2000KAN/SAM]
	FUS		28.33	456.7		[1992SAB/ELW3, 2010FON/SAN]
	FUS		29.72	456.5		[1986CAL/SUL, 2010FON/SAN]
	FUS		28.4	457.8		[1991ACR, 1979ARM/JAM]
	SUB	(368–406)	109.8 ± 0.6	387	GS	[2015VER/ZAI]
	SUB	(368–406)	112.8 ± 0.8	298	GS	[2015VER/ZAI]
	SUB	(340–362)	110.6 ± 0.3	351	ME	[2010FON/SAN]
	SUB	(340–362)	112.6 ± 0.6	298	ME	[2010FON/SAN]
	SUB	(316–369)	111.6 ± 0.6	298	GS	[2008PER/VOL]
	SUB		109.8 ± 0.6	298	ME	[1987STE/MAL, 1978COL/JIM]
	V		92	298	S-F	[2008PER/VOL]
$C_8H_8O_3$	[90-64-2]	*(dl)*-mandelic acid				
	FUS		26.46	392.6	DSC	[2011RIE/BAR]
	FUS		23.3	389.2	DSC	[2004STU/WIT]
	FUS		26.1	392.1	MDSC	[2004PRO/RAS]
	FUS		25.52	392		[1991CHI/BRA]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_8O_3$	[611-71-2]	(*d*)-mandelic acid ((*R*)-mandelic acid)				
	FUS		27.41	405.6	DSC	[2011RIE/BAR]
	FUS		26.2	404.1	MDSC	[2004PRO/RAS]
	FUS		26.36	406		[1991CHI/BRA]
$C_8H_8O_3$	[17199-29-0]	(*S*)-mandelic acid				
	FUS		26.88	405.3	DSC	[2011RIE/BAR]
$C_8H_8O_3$	[156-38-7]	4-hydroxyphenylacetic acid				
	FUS		28.0	422.9	DSC	[2002GRA/RAS]
	FUS		28.4	423.6		[1991ACR, 1979ARM/JAM]
$C_8H_8O_3$	[495-76-1]	1,3-benzodioxole-5-methanol (piperonyl alcohol)				
	FUS		18.05	327.1	DSC	[2004MAT/MON]
	SUB	(305–319)	103.0 ± 0.6	312	ME	[2004MAT/MON]
	SUB	(305–319)	103.7 ± 0.7	298	ME	[2004MAT/MON]
$C_8H_8O_4$	[520-45-6]	2-acetyl-5-hydroxy-3-oxo-4-hexenoic acid-*d*-lactone (dehydroacetic acid)				
	V	(364–542)	62.1	379	A	[1987STE/MAL, 1947STU]
$C_8H_8O_4$	[121-34-6]	3-methoxy-4-hydroxybenzoic acid (vanillic acid)				
	FUS		32.8	484.9	DSC	[2016ZHA/GUO]
	FUS		29.1	480.7	DSC	[2012MAN/VIL]
	FUS		25.6	484.7	DSC	[2012BOO/BAN]
$C_8H_8O_4$	[28026-96-2]	3,5-dihydroxy-4-methylbenzoic acid				
	FUS		42.5	544.1	DSC	[2012BOO/BAN]
C_8H_8S	[4565-32-6]	2,3-dihydrobenzo[*b*]thiophene				
	FUS		14.84	269.8		[2003STE/CHI]
	V	(345–557)	59.1 ± 0.2	298	IPM, EB	[2003STE/CHI]
	V	(345–557)	56.3 ± 0.2	340	IPM, EB	[2003STE/CHI]
	V	(345–557)	53.8 ± 0.2	380	IPM, EB	[2003STE/CHI]
	V	(345–557)	51.4 ± 0.2	420	IPM, EB	[2003STE/CHI]
	V	(345–557)	49.0 ± 0.2	460	IPM, EB	[2003STE/CHI]
	V	(345–557)	46.4 ± 0.3	500	IPM, EB	[2003STE/CHI]
C_8H_9Br	[553-94-6]	1-bromo-2,5-dimethylbenzene				
	V	(310–480)	50.9	325		[1999DYK/SVO, 1947STU]
	V	(310–480)	53.6	325	A	[1987STE/MAL, 1970DYK/VAN]
C_8H_9Br	[576-22-7]	1-bromo-2,6-dimethylbenzene				
	V	(274–305)	53.4 ± 0.4	290	GS	[2015VER/SAZ]
	V	(274–305)	52.7 ± 0.6	298	GS	[2015VER/SAZ]
C_8H_9Br	[585-71-7]	(1-bromoethyl)benzene				
	V	(298-333)	56.4 ± 0.3	298	GS	[2002KRA/VAS]
	V	392	52.4	298	CGC	[2002KRA/VAS]
C_8H_9Br	[103-63-9]	(2-bromoethyl)benzene				
	V	(348–401)	51.5	363	A	[1987STE/MAL, 1999DYK/SVO]
C_8H_9Br	[1973-22-4]	1-bromo-2-ethylbenzene				
	V	(368–523)	48.1	383	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]
C_8H_9Br	[1585-07-5]	1-bromo-4-ethylbenzene				
	V	(347–479)	46.2	362		[1999DYK/SVO]
	V	(378–533)	49.4	393	A	[1987STE/MAL, 1970DYK/VAN]
	V	(303–479)	52.0	318		[1947STU]
C_8H_9Cl	[672-65-1]	(*dl*)-(1-chloroethyl)benzene				
	V	(281–319)	52.8 ± 0.2	298	GS	[2002KRA/VAS]
	V	392	52.4	298	CGC	[2002KRA/VAS]
	V	(336–372)	51.4	351		[1999DYK/SVO]
	V	(342–378)	47.0	357	A	[1987STE/MAL]
C_8H_9Cl	[622-24-2]	(2-chloroethyl)benzene				
	V	(356–480)	53.1	368		[1999DYK/SVO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(356–380)	51.7	368	A	[1987STE/MAL]
C_8H_9Cl	[89-96-3]	1-chloro-2-ethylbenzene				
	V	(353–503)	46.1	368	A	[1987STE/MAL, 1970DYK/VAN]
	V	(290–450)	47.2	305		[1947STU]
C_8H_9Cl	[620-16-6]	1-chloro-3-ethylbenzene				
	V	(348–457)	46.4	363		[1999DYK/SVO]
	V	(358–508)	46.8	373	A	[1987STE/MAL, 1970DYK/VAN]
	V	(291–454)	46.4	307		[1947STU]
C_8H_9Cl	[622-98-0]	1-chloro-4-ethylbenzene				
	V	(350–458)	45.8	365		[1999DYK/SVO]
	V	(358–508)	46.8	373	A	[1987STE/MAL, 1970DYK/VAN]
	V	(381–457)	45.5	396		[1947STU]
C_8H_9Cl	[104-82-5]	1-(chloromethyl)-4-methylbenzene				
	V	(376–457)	44.9	391	A	[1987STE/MAL, 1999DYK/SVO]
C_8H_9Cl	[6781-98-2]	1-chloro-2,6-dimethylbenzene				
	V	(275–305)	49.8 ± 0.3	298	GS	[2014VER/EME]
$C_8H_9ClNO_5PS$	[500-28-7]	*O*, *O*-(dimethyl)-*O*-(3-chloro-4-nitrophenyl)thiophosphate				
	V	(283–409)	92	346	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_9ClNO_5PS$	[2463-84-5]	*O*-(2-chloro-4-nitrophenyl) *O*, *O*-dimethyl phosphorothioate				
	FUS		29.08	323.9	DSC	[1990DON/DRE]
$C_8H_9ClN_2O$	[52943-21-2]	2-chloro-*N*, *N*-dimethylnicotinamide				
	FUS	(82–380)	21.39	342.2	AC	[2005SUN/LIU3]
C_8H_9ClO	[614-72-2]	1-chloro-2-ethoxybenzene				
	V	(318–481)	52.4	333	A	[1987STE/MAL, 1947STU]
C_8H_9ClO	[1875-88-3]	4-chlorophenethyl alcohol				
	V	(426–673)	59.3	411	A	[1987STE/MAL, 1947STU]
C_8H_9ClO	[622-61-7]	4-chloro-1-ethoxybenzene				
	V	(395–485)	49.5	410	A	[1987STE/MAL, 1947STU]
$C_8H_9ClO_2$	[7477-64-7]	ethylene glycol, 4-chlorophenyl ether				
	V	(410–554)	68.5	425	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_9ClO_3$	[18113-22-9]	3-chloro-2,6-dimethoxyphenol				
	V	(293–323)	68.6	308	CGC	[1999LEI/WAN2]
$C_8H_9Cl_3O_4$	[98491-17-9]	2-acetyl-4,4,4-trichloro-3-oxobutyric acid, ethyl ester				
	V	(374–409)	53.1	389	A	[1987STE/MAL, 1999DYK/SVO]
C_8H_9I	[10604-60-1]	(1-iodoethyl)benzene				
	V	(303-340)	59.9 ± 0.4	298	GS	[2002KRA/VAS]
C_8H_9I	[4214-28-2]	1-iodo-2,4-dimethylbenzene				
	V	(294–328)	56.8 ± 0.3	311	GS	[2015VER/SAZ]
	V	(294–328)	57.7 ± 0.6	298	GS	[2015VER/SAZ]
C_8H_9I	[608-28-6]	1-iodo-2,6-dimethylbenzene				
	V	(285–333)	56.9 ± 0.1	309	GS	[2015VER/SAZ]
	V	(285–333)	57.6 ± 0.4	298	GS	[2015VER/SAZ]
C_8H_9N	[140-76-1]	2-methyl-5-vinylpyridine				
	V	(342–457)	55.2	357	A	[1987STE/MAL]
	V	(342–457)	54.5	357		[1961FRO/LOG, 1984BOU/FRI]
C_8H_9N		*N*-methylbenzaldehyde-imine				
	V	(283–318)	51.1 ± 0.2	301	GS	[1997VER/MOR]
	V	(283–318)	51.2 ± 0.2	298	GS	[1997VER/MOR]
C_8H_9N	[496-15-1]	indoline				
	V	(281–338)	60.9 ± 0.2	298	GS	[2011VER/EME]
	V		61.9 ± 1.7	298	C	[2008RIB/CAB3]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_9NO	[103-84-4]	acetanilide (*N*-phenylacetamide)				
	FUS		19.64	387.2	DTA	[2013KAN]
	FUS		21.83	387.5	DSC	[2012CHA/LAY]
	FUS		22.1	386.9	DSC	[2012UMN/CHI]
	FUS		21.4	386.9	DSC	[2005CHE/TAN]
	FUS		23.0	387.2	DSC	[2004SHA/TAN]
	FUS		18.3	387.2		[2004VEC/CAT]
	FUS		20.3	389.0	DSC	[1998BUS/ROM]
	FUS		21.65	387.5		[1996DOM/HEA, 1980AND/CON]
	SUB	(303–324)	80.6	313.5	A	[1987STE/MAL, 1955AIH3]
	SUB	(317–336)	87.2	326.5	A	[1987STE/MAL, 1960AIH2]
	V		82.1 ± 3.0	298	CGC	[2012UMN/CHI]
	V	(473–577)	64.8	488	A	[1987STE/MAL]
	V	(387–577)	66.3	402		[1947STU]
C_8H_9NO	[41977-54-2]	*anti* 3-methylbenzaldoxime				
	SUB		U31 ± 1.7		MS	[1983MAJ/AZZ]
C_8H_9NO	[3235-02-7]	*anti* 4-methylbenzaldoxime				
	SUB		U36 ± 1.7		MS	[1983MAJ/AZZ]
C_8H_9NO	[103-81-1]	2-phenylacetamide				
	SUB	(329–352)	96.4	340.5	A	[1987STE/MAL, 1960AIH2]
C_8H_9NO	[99-03-6]	3-aminoacetophenone				
	FUS		12.13	371.2		[1971LEB/GUT]
C_8H_9NO	[99-92-3]	4-aminoacetophenone				
	FUS		18.53	380.2	DSC	[2013SIN/PAN]
	FUS		19.6	378.2	DSC	[2005CHE/TAN]
	FUS		15.90	379.2		[1971LEB/GUT]
	SUB	(314–338)	92.7	326	A	[1987STE/MAL, 1960AIH2]
C_8H_9NO	[613-93-4]	*N*-methylbenzamide				
	FUS		18.62	347.4	DSC	[2010ALM/MON]
	SUB	(325–349)	99.9 ± 0.2	337	Static	[2010ALM/MON]
	SUB	(325–349)	101.0 ± 0.2	298	Static	[2010ALM/MON]
	SUB	(297–321)	75.0	309	A	[1987STE/MAL, 1955AIH]
	SUB	(307–329)	85.7	318	A	[1987STE/MAL, 1960AIH2]
	V	(323–388)	79.2 ± 0.1	356	Static	[2010ALM/MON]
	V	(323–388)	84.9 ± 0.5	298	Static	[2010ALM/MON]
[Note: VP measurements in [2010ALM/MON] include those for the subcooled liquid.]						
C_8H_9NO	[527-85-5]	*o*-methylbenzamide				
	FUS		22.9	415.1	DSC	[2012ALM/MAT]
	SUB	(325–347)	105.0 ± 0.3	336	ME	[2012ALM/MAT]
	SUB	(325–347)	106.1 ± 0.3	298	ME	[2012ALM/MAT]
C_8H_9NO	[618-47-3]	*m*-methylbenzamide				
	FUS		21.6	366.7	DSC	[2012ALM/MAT]
	SUB	(325–347)	106.6 ± 0.3	336	ME	[2012ALM/MAT]
	SUB	(325–347)	107.8 ± 0.3	298	ME	[2012ALM/MAT]
C_8H_9NO	[619-55-6]	*p*-methylbenzamide				
	FUS		24.3	433.2	DSC	[2012ALM/MAT]
	SUB	(339–361)	108.3 ± 0.3	350	ME	[2012ALM/MAT]
	SUB	(339–361)	109.6 ± 0.3	298	ME	[2012ALM/MAT]
$C_8H_9NO_2$	[81-20-9]	2-nitro-1,3-dimethylbenzene				
	V	(284–323)	57.2 ± 0.8	303	GS	[2000VER/HEI]
	V	(284–323)	57.5 ± 0.8	298	GS	[2000VER/HEI]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(373–498)	49.7	388	A	[1987STE/MAL]
$C_8H_9NO_2$	[89-87-2]	4-nitro-1,3-dimethylbenzene				
	V	(368–518)	56.7	383	A	[1987STE/MAL]
	V	(338–517)	57.3	353		[1947STU]
$C_8H_9NO_2$	[83-41-0]	1,2-dimethyl-3-nitrobenzene				
	V	(383–518)	59.4	398		[1984BOU/FRI]
$C_8H_9NO_2$	[99-51-4]	1,2-dimethyl-4-nitrobenzene				
	V	(399–536)	63.6	414		[1984BOU/FRI]
$C_8H_9NO_2$	[612-22-6]	2-nitro-1-ethylbenzene				
	V	(284–323)	62.7 ± 0.4	303	GS	[2000VER/HEI]
	V	(284–323)	63.0 ± 0.4	298	GS	[2000VER/HEI]
	V	(353–422)	56.3	368	A	[1987STE/MAL]
$C_8H_9NO_2$	[100-12-9]	4-nitro-1-ethylbenzene				
	V	(353–433)	59.4	368	A	[1987STE/MAL]
$C_8H_9NO_2$	[103-01-5]	*N*-phenylglycine				
	SUB		114.1 ± 1.0	365.4	C	[1980SAB/SKO]
	SUB		128.0 ± 2.0	298	C	[1980SAB/SKO]
$C_8H_9NO_2$	[875-74-1]	(*d*)-α-phenylglycine				
	SUB		148.9 ± 2.2	443	C	[1980SAB/SKO]
	SUB		165.0 ± 6.0	298	C	[1980SAB/SKO]
$C_8H_9NO_2$	[29577-53-5]	2-methoxybenzaldoxime				
	SUB (anti)		U20.1 ± 1.7		MS	[1983MAJ/AZZ]
	SUB (syn)		U32.6 ± 1.7		MS	[1983MAJ/AZZ]
$C_8H_9NO_2$	[3235-04-9]	4-methoxybenzaldoxime				
	SUB		U67.3 ± 1.7		MS	[1983MAJ/AZZ]
$C_8H_9NO_2$	[134-20-3]	methyl 2-aminobenzoate				
	FUS		17.9	294.1	DSC	[2012ALM/MON2]
	SUB	(287–298)	78.4	292.5	ME	[1987STE/MAL, 1954SER/VOI, 1960JON]
	V	(283–370)	66.0 ± 0.1	326	Static	[2012ALM/MON2]
	V	(283–370)	67.1 ± 0.1	298	Static	[2012ALM/MON2]
	V	(299–333)	62.3	314	A, ME	[1987STE/MAL, 1954SER/VOI]
$C_8H_9NO_2$	[4518-10-9]	methyl 3-aminobenzoate				
	FUS		17.8	325.3	DSC	[2012ALM/MON2]
	SUB	(309–324)	94.1 ± 0.1	316	Static	[2012ALM/MON2]
	SUB	(309–324)	94.6 ± 0.1	298	Static	[2012ALM/MON2]
	V	(312–376)	75.4 ± 0.1	344	Static	[2012ALM/MON2]
	V	(312–376)	78.2 ± 0.1	298	Static	[2012ALM/MON2]
$C_8H_9NO_2$	[619-45-4]	methyl 4-aminobenzoate				
	FUS		24.9	284.2	DSC	[2012ALM/MON2]
	FUS		22.55	385.1		[1990MAN/AHU]
	FUS		22.6	385.2	DSC	[1990NEA/FLY]
	SUB	(319–341)	104.2 ± 0.3	298	ME	[2012ALM/MON2]
	SUB	(333–380)	101.7 ± 0.2	356	Static	[2012ALM/MON2]
	SUB	(333–380)	103.4 ± 0.2	298	Static	[2012ALM/MON2]
	V	(361–428)	74.5 ± 0.1	394	Static	[2012ALM/MON2]
	V	(361–428)	84.0 ± 0.1	298	Static	[2012ALM/MON2]
$C_8H_9NO_2$	[614-80-2]	*o*-hydroxyacetanilide				
	FUS		37.0	484.1	DSC	[2008PER/VOL2]
	FUS		21.25	364.5		[1996DOM/HEA, 1926AND/LYN]
	SUB	(330–378)	120.9 ± 0.9	354	GS	[2008PER/VOL2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_9NO_2$	[621-42-1]	*m*-hydroxyacetanilide				
	FUS		26.6	416.2	DSC	[2008PER/VOL2]
	SUB	(345–397)	109.6 ± 1.1	371	GS	[2008PER/VOL2]
$C_8H_9NO_2$	[103-90-2]	*p*-hydroxyacetanilide (acetaminophen, paracetamol)				
	FUS		27.51	442.35	DSC	[2015MAT/MOR]
	FUS (I)		26.0	442.4		
	FUS (II)		24.9	429.8	DSC	[2014SAI/MUR]
	FUS		27.35	441.9	DSC	[2013BOU/TEY]
	FUS (I)		27.8	441.9		
	FUS (II)		26.7	429.4	DSC	[2012KLI/LEI]
	FUS		27.2	443.8	DSC	[2010PIC/DIO]
	(monoclinic)					
	FUS		27.24	443	DSC	[2010BAI/VAN]
	FUS		28.1	441.1	DSC	[2010AVU/ALE]
	FUS		27.4	442.2	DSC	[2010HAH/GRA]
	FUS		27.6	443.2	DSC	[2009MOT/CAR]
	FUS		27.0	440.3	DSC	[2009VEC/TOM]
	FUS		27.6	443.4	DSC	[2007MIS/MIS2]
	(monoclinic)					
	FUS		26.1	446.2	DSC	[2007CAM/MAG]
	TRS		Not given	149.9		
	FUS		26.49	441.9	AC,DSC	[2006XU/SUN]
	FUS		22.8	447.6	DSC	[2005TOM/CAT]
	FUS		27.0	442.2	DSC	[2004BOL/DRE]
	(monoclinic)					
	FUS		26.2	443	DSC	[2004ROM/BUS]
	FUS		26.0	442.2	DSC	[2002FAR/KAD]
	FUS		24.8	441.0	DSC	[2002SCH/LEN]
	FUS		28.2	442.5	DSC	[1998BUS/ROM]
	FUS		27.2	442.9	DSC	[1993BEC/QUA]
	FUS		26.02	441.2		[1990MAN/AHU]
	SUB		127.0 ± 1.9	399	C	[2010PIC/DIO]
	(monoclinic)					
	SUB		130.3 ± 1.9	298	C	[2010PIC/DIO]
	(monoclinic)					
	SUB	(394–427)	125.7 ± 3.0	411	ME	[2010PIC/DIO]
	(monoclinic)					
	SUB	(394–427)	129.5 ± 3.0	298	ME	[2010PIC/DIO]
	(monoclinic)					
	SUB		138 ± 3	298	F + V	[2009VEC/TOM]
	SUB	(355–397)	117.9 ± 0.7	298	GS	[2007PER/VOL2]
	(monoclinic)					
	SUB	(313–347)	238.7			[2003WIL/WIL, 2010PIC/DIO]
	(monoclinic)					
[Note: Authors of [2010PIC/DIO] state that the value of 238.8 kJ/mole seemed unreasonably high.]						
	V		103 ± 3	521	TGA	[2009VEC/TOM]
	V		99 ± 1	494	TGA	[2009VEC/TOM]
$C_8H_9NO_2$	[2603-10-3]	methyl *N*-phenylcarbamate				
	FUS		14.56	325		[1971PRI, 1996DOM/HEA]
	SUB	(373–418)	64.5	388	EB	[2013XU/LI]
$C_8H_9NO_2$	[4389-45-1]	2-amino-3-methylbenzoic acid				
	FUS		27.3	447.4	DSC	[2001MON/HIL2]
	SUB	(343–357)	107.3 ± 1.8	298	ME	[2001MON/HIL2]
	SUB	(343–357)	105.8 ± 0.8	350	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[2941-78-8]	2-amino-5-methylbenzoic acid				
	FUS		27.63	450	DSC	[2001MON/HIL2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(345–361)	110.6 ± 1.9	298	ME	[2001MON/HIL2]
	SUB	(345–361)	108.9 ± 0.5	353	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[4389-50-8]	2-amino-6-methylbenzoic acid				
	FUS		27.49	398.7	DSC	[2001MON/HIL2]
	SUB	(339–355)	116.1 ± 2.0	298	ME	[2001MON/HIL2]
	SUB	(339–355)	114.7 ± 1.2	347	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[52130-17-3]	3-amino-2-methylbenzoic acid				
	FUS		38.47	458.8	DSC	[2001MON/HIL2]
	SUB	(367–381)	127.8 ± 2.6	298	ME	[2001MON/HIL2]
	SUB	(367–381)	115.6 ± 0.8	374	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[2458-12-0]	3-amino-4-methylbenzoic acid				
	FUS		26.89	438.8	DSC	[2001MON/HIL2]
	SUB	(363–377)	119.4 ± 2.5	298	ME	[2001MON/HIL2]
	SUB	(363–377)	117.3 ± 0.9	370	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[2486-70-6]	4-amino-3-methylbenzoic acid				
	FUS		21.77	439.4	DSC	[2001MON/HIL2]
	SUB	(367–383)	122.0 ± 2.6	298	ME	[2001MON/HIL2]
	SUB	(367–383)	119.8 ± 0.7	375	ME	[2001MON/HIL2]
$C_8H_9NO_2$	[1197-55-3]	4-aminophenylacetic acid				
	FUS		42.7	468.2	DSC	[2002GRA/RAS]
$C_8H_9NO_2$	[10541-83-0]	4-(methylamino)benzoic acid				
	FUS		21.0	435.9	DSC	[2010MON/SAN]
	SUB	(359–381)	121.6 ± 0.4	328	ME	[2010MON/SAN]
	SUB	(359–381)	123.9 ± 0.4	298	ME	[2010MON/SAN]
$C_8H_9NO_2$	[2439-77-2]	2-methoxybenzamide				
	FUS		27.21	401.66	DSC	[2014ALM/MON]
	SUB		109.9 ± 0.4	346	ME	[2014ALM/MON]
	SUB		113.3 ± 0.4	298	ME	[2014ALM/MON]
$C_8H_9NO_2$	[5813-86-5]	3-methoxybenzamide				
	FUS		28.60	407.15	DSC	[2014ALM/MON]
	SUB		118.1 ± 0.4	358	ME	[2014ALM/MON]
	SUB		119.8 ± 0.4	298	ME	[2014ALM/MON]
$C_8H_9NO_2$	[3424-93-9]	4-methoxybenzamide				
	FUS		29.04	440.64	DSC	[2014ALM/MON]
	SUB		117.3 ± 0.4	368	ME	[2014ALM/MON]
	SUB		119.3 ± 0.4	298	ME	[2014ALM/MON]
$C_8H_9NO_2S_2$	[949171-63-5]	*N*-theonylthiocarbamic-*O*-ethyl ester				
	FUS		21.9	345.9	DSC	[2007RIB/MON]
	SUB		143.2 ± 3.1	298	C	[2007RIB/MON]
$C_8H_9NO_3$	[3177-80-8]	2-amino-3-methoxybenzoic acid				
	FUS		24.21	443.0	DSC	[2010MON/ALM]
	SUB	(349–369)	113.3 ± 0.7	359.8	ME	[2010MON/ALM]
	SUB	(349–369)	115.5 ± 0.7	298	ME	[2010MON/ALM]
$C_8H_9NO_3$	[6705-03-9]	2-amino-5-methoxybenzoic acid				
	FUS		22.88	425	DSC	[2010MON/ALM]
	SUB	(353–375)	116.9 ± 0.8	364	ME	[2010MON/ALM]
	SUB	(353–375)	119.3 ± 0.8	298	ME	[2010MON/ALM]
$C_8H_9NO_3$	[2840-26-8]	3-amino-4-methoxybenzoic acid				
	FUS		25.34	477.9	DSC	[2010MON/ALM]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(380–399)	127.4 ± 0.8	389	ME	[2010MON/ALM]
	SUB	(380–399)	130.7 ± 0.8	298	ME	[2010MON/ALM]
$C_8H_9NO_3$	[74165-74-5]	3-amino-5-methoxybenzoic acid				
	FUS		22.4	456.9	DSC	[2010MON/ALM]
	SUB	(380–400)	132.8 ± 1.0	390	ME	[2010MON/ALM]
	SUB	(380–400)	136.1 ± 1.0	298	ME	[2010MON/ALM]
$C_8H_9NO_3$	[2486-69-3]	4-amino-3-methoxybenzoic acid				
	FUS		25.27	462.4	DSC	[2010MON/ALM]
	SUB	(373–395)	128.9 ± 1.2	384	ME	[2010MON/ALM]
	SUB	(373–395)	132.0 ± 1.2	298	ME	[2010MON/ALM]
$C_8H_9NO_7$	[22401-53-2]	methyl 5-nitro-2-acetoxy-2,5-dihydro-2-furancarboxylate				
	SUB		89.1 ± 2.1			[1980BAL/LEB, 1986PED/NAY]
$C_8H_9N_3$	[62679-52-1]	2,2-dicyanohexanenitrile				
	V	(288–323)	61.0 ± 0.2		GS	[1994RAK/VER]
$C_8H_9N_3O_4$	[3846-50-2]	*N*-ethyl-2,4-dinitrobenzenamine				
	FUS		19.67	387.2	DSC	[2010MEK/KHI]
$C_8H_9O_3PS$	[3811-49-2]	2-methoxy-4*H*-1,3,2-benzodioxaphosphorin 2-sulfide				
	FUS		16.92	327.9	DSC	[1990DON/DRE]
C_8H_{10}	[95-47-6]	1,2-dimethylbenzene				
	FUS		13.68	248.0	C	[1955TUN/STO]
	FUS		13.6	247.8		[1996DOM/HEA, 1943PIT/SCO]
	FUS	(90–295)	13.0	247.8	C	[1930HUF/PAR2]
	SUB		60.1	248	B	[1986HES/LIC]
	V	(373–423)	42.9	298	CGC	[1995CHI/HOS]
	V	(333–419)	41.1	348	A	[1987STE/MAL]
	V	(416–473)	38.0	431	A	[1987STE/MAL]
	V	(471–571)	36.7	486	A	[1987STE/MAL]
	V	(567–630)	36.7	582	A	[1987STE/MAL]
	V	(386–416)	39.8	401		[1982CAS/FRA]
	V		43.4	298		[1971WIL/ZWO]
	V	(333–342)	41.5	338		[1968GAR/BOV]
	V		43.4 ± 0.1	298	C	[1947OSB/GIN]
	V	(337–419)	40.8	352	MM	[1945WIL/TAY, 1949FOR/NOR]
	V	(273–323)	45.0	288		[1943PIT/SCO, 1984BOU/FRI]
	V	(273–323)	43.8 ± 0.2	298		[1943PIT/SCO]
C_8H_{10}	[108-38-3]	1,3-dimethylbenzene				
	FUS		11.67	225.3	C	[1955TUN/STO]
	FUS		11.59	225.3		[1996DOM/HEA, 1943PIT/SCO]
	TRS		0.21	166		
	FUS	(96–275)	11.44	219.6	C	[1996DOM/HEA, 1930HUF/PAR2]
	V	(360–410)	39.2	375		[2002SWI/MAL]
	V	(327–412)	40.7	342		[1989PAR/GME]
	V	(267–301)	44.7	282	A	[1987STE/MAL]
	V	(412–462)	37.5	427	A	[1987STE/MAL]
	V	(461–554)	36.4	476	A	[1987STE/MAL]
	V	(550–617)	36.2	565	A	[1987STE/MAL]
	V	(380–411)	38.7	395		[1983MAC]
	V		42.7	298		[1971WIL/ZWO]
	V	(326–337)	41	331		[1968GAR/BOV]
	V		42.7 ± 0.1	298	C	[1947OSB/GIN]
	V	(331–415)	40.4	346	MM	[1987STE/MAL, 1945WIL/TAY, 1949FOR/NOR]
	V	(273–333)	43.2	288		[1943PIT/SCO, 1984BOU/FRI]
	V	(273–333)	42.5 ± 0.2	298		[1943PIT/SCO]
C_8H_{10}	[106-42-3]	1,4-dimethylbenzene				
	FUS		17.49	286.5	C	[1955TUN/STO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		17.11	286.3		[1996DOM/HEA, 1947COR/GIN, 1943PIT/SCO]
	FUS	(92–299)	16.93	286.4	C	[1930HUF/PAR2]
	SUB	(247–286)	59.4	271	A	[1987STE/MAL, 1974OSB/DOU]
	SUB		60.8	286	B	[1986HES/LIC]
	V	(373–423)	42.3	298	CGC	[1995CHI/HOS]
	V	(293–323)	43.0 ± 0.1	298		[1990SMI]
	V		42.3 ± 0.01	298		[1988MES/FIN]
	V		40.3	353		[1988HOS/ARC]
	V	(411–463)	37.3	426	A	[1987STE/MAL]
	V	(460–553)	36.1	475	A	[1987STE/MAL]
	V	(551–616)	36.2	566	A	[1987STE/MAL]
	V		36.0 ± 0.1	411	C	[1985NAT/VIS]
	V		34.5 ± 0.1	436	C	[1985NAT/VIS]
	V		30.5 ± 0.1	484	C	[1985NAT/VIS]
	V		24.7 ± 0.1	540	C	[1985NAT/VIS]
	V	(380–410)	37.3	395		[1982CAS/FRA]
	V	(348–439)	39.6 ± 0.1	348	C	[1981HOS/SCO3]
	V	(348–439)	38.5 ± 0.1	366	C	[1981HOS/SCO3]
	V	(348–439)	37.2 ± 0.1	387	C	[1981HOS/SCO3]
	V	(348–439)	34.6 ± 0.1	427	C	[1981HOS/SCO3]
	V	(348–439)	33.8 ± 0.1	439	C	[1981HOS/SCO3]
	V	(348–439)	42.3 ± 0.1	298	C	[1981HOS/SCO3]
	V		42.6	298		[1974AMB/ELL]
	V	(286–453)	42.4	301	IPM, EB	[1987STE/MAL, 1974OSB/DOU]
	V		42.4	298		[1971WIL/ZWO]
	V	(327–337)	40.5	332		[1968GAR/BOV]
	V	(303–343)	41.6	318		[1968GAW/SWI2]
	V		42.4 ± 0.1	298	C	[1947OSB/GIN]
	V	(332–413)	40.1	347	MM	[1945WIL/TAY, 1949FOR/NOR]
	V		42.3 ± 0.2	298		[1943PIT/SCO]
C_8H_{10}	[100-41-4]	ethylbenzene				
	FUS		9.16	178.2		[1996DOM/HEA, 1944GUT/SPI, 1946SCO/BRI]
	FUS		9.16	178.0	C	[1996DOM/HEA, 1930HUF/PAR2]
	V	(324–364)	40.0	344	EB	[2011JON/MAA]
	V	(298–420)	41.8	313	A	[1987STE/MAL]
	V	(409–459)	37.0	424	A	[1987STE/MAL]
	V	(457–554)	35.8	472	A	[1987STE/MAL]
	V	(549–617)	35.5	564	A	[1987STE/MAL]
	V	(320–400)	40.6	335		[1986PAU/KRU]
	V		40.5 ± 0.1	328	C	[1982SVO/CHA]
	V		39.5 ± 0.1	343	C	[1982SVO/CHA]
	V		38.6 ± 0.1	358	C	[1982SVO/CHA]
	V	(346–437)	39.4 ± 0.1	346	C	[1981HOS/SCO3]
	V	(346–437)	38.4 ± 0.1	354	C	[1981HOS/SCO3]
	V	(346–437)	37.7 ± 0.1	376	C	[1981HOS/SCO3]
	V	(346–437)	36.3 ± 0.1	399	C	[1981HOS/SCO3]
	V	(346–437)	34.5 ± 0.1	425	C	[1981HOS/SCO3]
	V	(346–437)	42.4 ± 0.1	298	C	[1981HOS/SCO3]
	V		42.3	298		[1971WIL/ZWO]
	V		42.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(330–410)	40.0	345	MM	[1945WIL/TAY, 1949FOR/NOR]
	V		42.5	294		[1946SCO/BRI]
C_8H_{10}	[27998-49-8]	1,2-bicyclopropylacetylene				
	V		47.6 ± 0.2	298	C	[2007PAS/KUZ]
$C_8H_{10}ClNO_2$	[6358-64-1]	4-chloro-2,5-dimethoxyaniline				
	FUS		26.68	391.9	DSC	[2015ZHA/JIN]
$C_8H_{10}Cl_2O_2$	[55701-05-8]	3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid (ratio of *cis*/*trans*-is 35/65)				
	FUS	(78–389)	16.32	331.5	AC	[2007XUE/WAN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{10}Cl_2O_2$	[55701-03-6]	*trans*-(*R*)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid				
	FUS	(78–389)	13.75	344.8	AC	[2008XUE/LI]
$C_8H_{10}F_3NO_3$	[715-58-2]	*N*-trifluoroacetyl-*l*-proline, methyl ester				
	V	(303–523)	57.9	318	A	[1987STE/MAL, 1999DYK/SVO, 1960WEY/KLI]
$C_8H_{10}F_3NO_5$	[81084-01-7]	*N*-trifluoroacetyl-*l*-aspartic acid, dimethyl ester				
	V	(303–423)	58.2	318	A	[1987STE/MAL, 1999DYK/SVO, 1960WEY/KLI]
$C_8H_{10}NO_5PS$	[298-00-0]	*O*, *O*-dimethyl-*O*-(4-nitrophenyl) thiophosphate				
	FUS		20.07	308.2	DSC	[1991ACR, 1990DON/DRE]
	SUB	(298–308)	125.1	303	GS,A	[1984KIM/WOO]
	SUB	(278–288)	108.7	283	GS	[1983SPE/CLI, 1979SPE/SHO]
	V	(293–427)	88.9	308	A	[1987STE/MAL]
	V		87.0		GS	[1979SPE/SHO]
$C_8H_{10}N_2O$	[138-89-6]	4-*N*, *N*-dimethylaminonitrosobenzene				
	SUB	(323–334)	82.0 ± 1.7	298	ME	[1994ACR/TUC]
$C_8H_{10}N_2O$	[6972-69-6]	*N*, *N*-dimethylnicotinamide				
	FUS		19.4	317.3	DSC	[2015ALM/OLI]
	SUB	(308–315)	93.6 ± 0.4	312	DM	[2015ALM/OLI]
	SUB	(308–315)	94.0 ± 0.8	298	DM	[2015ALM/OLI]
	V	(307–370)	73.0 ± 0.1	338	DM	[2015ALM/OLI]
	V	(307–370)	76.1 ± 0.2	298	DM	[2015ALM/OLI]
$C_8H_{10}N_2O_2$	[619-31-8]	3-nitro-*N*, *N*-dimethylaniline				
	SUB		92.7 ± 0.3	298	C	[1985MUR/SAK]
	V	(427–558)	52.3	442	A, GS, EB	[1987STE/MAL, 1960AND/BID]
	V	(357–492)	48.2	372		[1955VON/GEB]
$C_8H_{10}N_2O_2$	[100-23-2]	*N*, *N*-dimethyl-4-nitroaniline				
	SUB		102.7 ± 1.1	298	C	[1985MUR/SAK]
	SUB	(344–366)	98.7 ± 1.7	355	ME	[1987STE/MAL, 1956MAJ]
	SUB	(372–393)	101.3 ± 2.0	298	ME	[1994ACR/TUC]
$C_8H_{10}N_2O_3$	[22809-78-5]	*N*-methyl-*N*-(4-methoxyphenyl)nitramine				
	FUS		22.7	342.6	DSC	[2002DAS/ZAL]
$C_8H_{10}N_2O_3S$	[144-80-9]	*N*-[(4-aminophenyl)sulfonyl]acetamide (sulfacetamide)				
	FUS		29.8	455.2	DSC	[2002MAR/GOM, 2001MAR/GOM]
$C_8H_{10}N_2O_4S$	[156461-84-6]	*N*-methyl-*N*-(3-methylsulfonylphenyl)nitramine				
	FUS		26.1	377.8	DSC	[2002DAS/ZAL]
$C_8H_{10}N_2O_4S$	[23042-38-8]	*N*-methyl-*N*-(4-methylsulfonylphenyl)nitramine				
	FUS		19.2	438.1	DSC	[2002DAS/ZAL]
$C_8H_{10}N_2S$	[536-33-4]	2-ethyl-4-pyridinecarbothioamide				
	SUB	(364–381)	164.2 ± 1.8	372	GS	[2015BLO/SHA2]
	SUB	(364–381)	166.5 ± 1.8	298	GS	[2015BLO/SHA2]
$C_8H_{10}N_4O_2$	[58-08-2]	caffeine (1,3,7-trimethylxanthine)				
	TRS		3.29	421.5		
	FUS		20.08	510.2	DSC	[2015BOU/BOU]
	FUS		19.52	510.3	DSC	[2014DIC/LEG]
	FUS		20.37	508.8	DSC	[2012KLI/LEI]
	FUS		19.6	508.7	DSC	[2012AGA/MOS]
	TRS		2.6	405.8		
	FUS		17.9	505.4	DSC	[2012MAN/VIL]
	FUS		20.8	510.0	DSC	[2010BAI/VAN]
	FUS		24.8	507.7	DSC	[2010GUO/SAD]
	TRS		3.00	414.9		
	FUS		23.46	509.6	DSC	[2008MOG/SEP]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		3.43	420.9		
	FUS		19.86	509.5	DSC	[2007DON/LI]
	TRS		4.02	428.2		
	FUS		21.9	510.2	DSC	[2006PIN/DIO]
	TRS		3.9	428	DSC	[2005DES/COR]
	FUS		19.38	510.2	DSC	[2005KLO/BRO]
	TRS		3.94	426		
	FUS		23.43	512	DSC	[1990DOM/HEA, 1980CES/STA]
	FUS		18.3	510		[1985OHM/LIP]
	TRS		3.7	423.2		
	FUS		21.5	509.2	DSC	[1985SUZ/SHI]
	TRS		1.71	420.8		
	FUS		20.95	508.3	DSC	[1984WEI/LEF]
	SUB (I)	(413–463)	104.8 ± 0.2	438	T	[1999GRI/SZE]
	SUB (I)	(413–463)	115	298	T	[1999GRI/SZE]
	SUB (II)	(413–463)	113.6 ± 0.2	369	T	[1999GRI/SZE]
	SUB (II)	(413–463)	119	298	T	[1999GRI/SZE]
	SUB	(315–364)	112.6 ± 2.4		ME	[1998BOL/WIE]
	SUB		105.1 ± 0.7		ME	[1985KAM/ZIE]
	SUB	(373–473)	103.6	423	UV	[1984EBE/FRA]
	SUB (I)	(446–509)	100.0 ± 0.6	478	MM	[1979BOT/CAM]
	SUB (I)		110	298		[1979BOT/CAM, 1999GRI/SZE]
	SUB (II)	(446–509)	110.7 ± 0.7	362	MM	[1979BOT/CAM]
	SUB (II)		114	298		[1979BOT/CAM, 1999GRI/SZE]
	V	(634–743)	64.9 ± 2.4		DSC	[1998BOL/WIE]
$C_8H_{10}O$	[526-75-0]	2,3-dimethylphenol				
	FUS		20.29	345.8	DSC	[1998JAM/PAL]
	FUS		21.02	346	DSC	[1991ACR, 1982POE/FAN]
	SUB	(283–323)	84.0 ± 1.0		GS	[1960AND/BID, 1970COX/PIL, 1987STE/MAL]
	V	(433–492)	52.1	448	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[105-67-9]	2,4-dimethylphenol				
	FUS		12.76	297.3	DSC	[1998JAM/PAL]
	V	(393–433)	64.6	298	CGC	[1995CHI/HOS]
	V	(282–318)	65.9	297	A	[1987STE/MAL]
	V	(282–318)	65.9 ± 0.2		GS	[1960AND/BID, 1970COX/PIL]
	V	(429–486)	51.8	444	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[95-87-4]	2,5-dimethylphenol				
	FUS		13.81	348.1	DSC	[1998JAM/PAL]
	FUS		23.38	348	DSC	[1991ACR, 1982POE/FAN]
	SUB	(282–323)	85.0 ± 0.25		GS	[1960AND/BID, 1970COX/PIL, 1987STE/MAL]
	V	(427–485)	51.7	442	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[576-26-1]	2,6-dimethylphenol				
	FUS		18.83	318.6	DSC	[1998JAM/PAL]
	FUS		18.9	318.9	DSC	[1991ACR, 1982POE/FAN]
	SUB		75.6	298		[1971MOR]
	SUB		75.1	298		[1968MOR]
[Note: The author of [1968MOR] refers to the determined value as the enthalpy of vaporization even though the compound is a solid.]						
	SUB	(277–313)	75.6 ± 0.17		GS	[1960AND/BID, 1970COX/PIL]
	V		75.6	298		[1971MOR]
	V		75.1	298		[1968MOR]
	V	(417–476)	48.5	432	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[95-65-8]	3,4-dimethylphenol				
	FUS		19.04	338.5	DSC	[1998JAM/PAL]
	FUS		18.13	334	DSC	[1991ACR, 1982POE/FAN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		85.1	298		[1971MOR]
	SUB		85.0	298		[1968MOR]
[Note: The author of [1968MOR] refers to the determined value as the enthalpy of vaporization even though the compound is a solid.]						
	SUB	(282–323)	85.7 ± 0.1		GS	[1960AND/BID, 1970COX/PIL, 1987STE/MAL]
	V		85.1	298		[1971MOR]
	V		85.0	298		[1968MOR]
	V	(444–502)	54.9	459	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[108-68-9]	3,5-dimethylphenol				
	FUS		18.0	336.8	DSC	[1991ACR, 1982POE/FAN]
	FUS		17.4	336.6	AC	[1957MAS]
	SUB		82	298		[1971MOR]
	SUB	(282–323)	82.8 ± 0.3		GS	[1960AND/BID, 1970LEN/VEL, 1987STE/MAL]
	V	(427–497)	55.3	442	A, GS, EB	[1987STE/MAL, 1960AND/BID]
$C_8H_{10}O$	[538-86-3]	benzyl methyl ether				
	V	(274–314)	51.4 ± 0.3	298	GS	[2002KRA/VAS]
$C_8H_{10}O$	[103-73-1]	ethoxybenzene				
	V	(390–454)	44.5	405	A	[1987STE/MAL, 1976AMB/ELL]
	V	(390–454)	50.7	298		[1976AMB/ELL]
	V	(390–454)	40.7	443		[1976AMB/ELL]
	V		51.0 ± 0.1	298	C	[1975FEN/HAR]
	V	(400–454)	44.0	415		[1965COL/COU, 1984BOU/FRI]
$C_8H_{10}O$	[90-00-6]	2-ethylphenol				
	SUB	(278–317)	80.3 ± 0.5		GS	[1963BID/HAN, 1970COX/PIL, 1987STE/MAL]
	V	(393–433)	64.5	298	CGC	[1995CHI/HOS]
	V	(423–491)	50.5	438	A, GS, EB	[1987STE/MAL, 1963BID/HAN]
	V	(277–318)	63.5	292	A, GS, EB	[1987STE/MAL, 1963BID/HAN]
	V	(359–480)	51.6	374		[1955VON/GEB]
	V	(321–492)	51.4	348		[1953STA/MUL]
	V	(321–492)	49.5	373		[1953STA/MUL]
	V	(321–492)	48.6	398		[1953STA/MUL]
	V	(321–492)	47.0	423		[1953STA/MUL]
	V	(321–492)	43.1	473		[1953STA/MUL]
$C_8H_{10}O$	[620-17-7]	3-ethylphenol				
	V	(445–503)	53.1	460	A, GS, EB	[1987STE/MAL, 1963BID/HAN]
	V	(277–323)	68.1	292	A, GS, EB	[1987STE/MAL, 1963BID/HAN]
	V	(334–501)	58.3	348		[1953STA/MUL]
	V	(334–501)	56.5	373		[1953STA/MUL]
	V	(334–501)	55.2	398		[1953STA/MUL]
	V	(334–501)	53.7	423		[1953STA/MUL]
	V	(334–501)	48.8	473		[1953STA/MUL]
$C_8H_{10}O$	[123-07-9]	4-ethylphenol				
	V	(444–503)	53.2	459	A, GS, EB	[1987STE/MAL, 1963BID/HAN]
	V	(337–503)	56.5	348		[1953STA/MUL]
	V	(337–503)	54.7	373		[1953STA/MUL]
	V	(337–503)	53.8	398		[1953STA/MUL]
	V	(337–503)	51.3	423		[1953STA/MUL]
	V	(337–503)	47.6	473		[1953STA/MUL]
$C_8H_{10}O$	[589-18-4]	4-methylbenzyl alcohol				
	TRS		0.73	179		
	TRS		0.21	210		
	FUS	(10–350)	20.17	331.9	AC	[2005SAI/IKE]
	V	(338–376)	64.2	353	A	[1987STE/MAL]
$C_8H_{10}O$	[98-85-1]	(*dl*)-1-phenylethanol (α-methyl benzyl alcohol)				
	V	(293–363)	64.7	308		[2006LUS/MAL]
	V	(358–398)	59.1	373	EB	[2004CHY/FRA]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(358–398)	75.2	298	EB	[2004CHY/FRA]
	V	(353–480)	53.5	368	A	[1987STE/MAL]
$C_8H_{10}O$	[60-12-8]	2-phenylethanol				
	V	(288–363)	66.7	298	GS	[2007EME/DAB]
	V	(313–413)	U54.55	298	GC	[2005HOS/GRY]
	V	(394–613)	55.1	409	A	[1987STE/MAL]
	V	(305–363)	73.4 ± 1.5	298	GC	[1981SHC/RUD, 2007EME/DAB]
	V	(284–287)	69.7 ± 1.6	298	ME	[1958SER/VOI, 2007EME/DAB]
	V	(283–318)	68.4	298	A, ME	[1987STE/MAL, 1954SER/VOI]
	V	(406–492)	64.9 ± 0.3	298	EB	[1949DRE/SHR, 1949DRE/MAR, 2007EME/DAB]
	V	(331–492)	68	298	EB	[1947STU, 2007EME/DAB]
$C_8H_{10}O$	[578-58-5]	2-methylanisole				
	V	(276–308)	50.2 ± 0.4	298	GS	[2015EME/ZAI]
	V		45.2			[1986BAL/GNA]
$C_8H_{10}O$	[100-84-5]	3-methylanisole				
	V	(277–312)	52.8 ± 0.5	298	GS	[2015EME/ZAI]
$C_8H_{10}O$	[104-93-8]	4-methylanisole				
	V	(275–308)	53.3 ± 0.4	298	GS	[2015EME/ZAI]
	V		46.0			[1986BAL/GNA]
$C_8H_{10}OS$	[1879-16-9]	4-methoxythioanisole				
	V		53.6			[1986BAL/GNA]
$C_8H_{10}OS$	[2530-10-1]	3-acetyl-2,5-dimethylthiophene				
	V		61.3 ± 1.3	298	C	[2008RIB/SAN3]
$C_8H_{10}O_2$		ethyl *trans-b*-(2-furyl)acrylate				
	V	(428–500)	56.8	464		[1956FRO/LOE]
$C_8H_{10}O_2$	[105-13-5]	4-methoxybenzyl alcohol				
	V	(394–424)	95.6	409	A	[1987STE/MAL]
	V	(354–453)	71.7	369	EB	[1985SCH/BRU]
$C_8H_{10}O_2$	[488-87-9]	1,3-dihydroxy-2,5-dimethylbenzene				
	V	(393–459)	74.7	408	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_8H_{10}O_2$	[527-55-9]	1,3-dihydroxy-4,5-dimethylbenzene				
	V	(424–453)	67.5	438	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_8H_{10}O_2$	[615-89-4]	1,3-dihydroxy-4,6-dimethylbenzene				
	V	(388–466)	74.7	403	A, GC	[1975KUN/LIL]
$C_8H_{10}O_2$	[615-90-7]	1,4-dihydroxy-2,5-dimethylbenzene				
	V	(331–361)	101.1	346	A	[1987STE/MAL]
$C_8H_{10}O_2$	[4299-72-3]	1,3-dihydroxy-5-ethylbenzene				
	V	(408–479)	81.3	423	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_8H_{10}O_2$	[615-90-7]	2,5-dimethylhydroquinone				
	SUB	(332–361)	100.8		QF	[1927COO/COO, 1960JON]
$C_8H_{10}O_2$	[91-16-7]	1,2-dimethoxybenzene				
	FUS		12.6	295.7	DSC	[2003LEE/CHO]
	FUS		15.8	295.9		[1911LOU/DUP]
	V	(293–332)	64.5 ± 0.3	298	GS	[2010VAR/ABA]
	V	(373–468)	52.7	388		[2002SU, 2004LEE/SU]
	V	(373–468)	61.1 ± 0.2	298		[2002SU, 2004LEE/SU, 2010VAR/ABA]
	V		68.1 ± 1.4	298	C	[2000MAT/MIR]
	V		66.9	298		[1958CAS/FLE2, 2010VAR/ABA]
$C_8H_{10}O_2$	[151-10-0]	1,3-dimethoxybenzene				
	V	(296–332)	59.7 ± 0.2	298	GS	[2010VAR/ABA]
	V		61.5 ± 1.4	298	C	[2000MAT/MIR]
	V	(358–423)	60.8	373	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_8H_{10}O_2$	[150-78-7]	1,4-dimethoxybenzene				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		20.1	333.0	DSC	[2010VAR/ABA]
	SUB	(283–327)	80.3 ± 0.2	298	GS	[2010VAR/ABA]
	SUB		84.1 ± 2.3	298	C	[2000MAT/MIR]
	V	(330–357)	61.6 ± 0.2	298	GS	[2010VAR/ABA]
	V	(298–357)	62.1	313	A	[1987STE/MAL]
	V		51.5			[1986BAL/GNA]
$C_8H_{10}O_2$	[122-99-6]	2-phenoxyethanol				
	V	(351–519)	66.0	366	A	[1987STE/MAL, 1947STU]
$C_8H_{10}O_2$	[2896-67-5]	3-methoxy-4-hydroxytoluene				
	V	(356–495)	53.2	371	A	[1987STE/MAL]
$C_8H_{10}O_2$	[135-02-4]	2-methoxybenzaldehyde				
	V		55.2			[1986BAL/GNA]
$C_8H_{10}O_2$	[501-94-0]	4-hydroxybenzeneethanol				
	FUS		25.9	364	DSC	[2009QUE/MOT]
$C_8H_{10}O_2$	[10599-70-9]	3-acetyl-2,5-dimethylfuran				
	V		57.5 ± 1.5	298	C	[2011RIB/AMA]
$C_8H_{10}O_2$	[94-71-3]	2-ethoxyphenol				
	V	(380–486)	54.7	392	EB	[2012PAL/ORA]
	V	(380–486)	52.3	415	EB	[2012PAL/ORA]
	V	(380–486)	50.9	428	EB	[2012PAL/ORA]
	V	(380–486)	49.3	445	EB	[2012PAL/ORA]
	V	(380–486)	48.3	457	EB	[2012PAL/ORA]
$C_8H_{10}O_2S$	[3112-90-1]	benzyl methyl sulfone				
	FUS		25.52	400.5	FPM	[1961BUS/IVI]
	V	(455–529)	64.9	470	A, BG	[1987STE/MAL, 1999DYK/SVO, 1961BUS/IVI]
$C_8H_{10}O_2S$	[57382-97-5]	ethyl 2-thiopheneacetate				
	V		61.8 ± 1.3	298	C	[2009RIB/SAN2]
$C_8H_{10}O_2S$	[37784-63-7]	ethyl 3-thiopheneacetate				
	V		63.2 ± 1.3	298	C	[2009RIB/SAN2]
$C_8H_{10}O_3$	[13149-00-3]	*cis*-cyclohexane-1,2-dicarboxylic acid anhydride				
	TRS	(12–330)	5.59	304		
	FUS	(12–330)	0.85	310.5	AC	[1983GEI/NUR]
	V	(325–525)	48.8 ± 0.1			[1984NUR/MEK]
$C_8H_{10}O_3$	[85-42-7]	1,2-cyclohexanedicarboxylic anhydride				
	FUS	(80–390)	14.71	303.8	AC	[2008LU/GAO]
$C_8H_{10}O_3$	[5150-42-5]	2,3-dimethoxyphenol				
	V		76.5 ± 0.5	298	C	[2003MAT/MIR]
$C_8H_{10}O_3$	[91-10-1]	2,6-dimethoxyphenol				
	SUB		98.4 ± 1.1	298	C	[2003MAT/MIR]
$C_8H_{10}O_3$	[500-99-2]	3,5-dimethoxyphenol				
	SUB		101.1 ± 2.3	298	C	[2003MAT/MIR]
$C_8H_{10}O_4$		*trans,trans*-2,6-octadiene-1,8-dioic acid				
	TRS		11.04	439		
	FUS		27.77	541		[1969COR/FRA]
$C_8H_{10}O_4$		*trans,cis*-2,6-octadiene-1,8-dioic acid				
	FUS		22.78	380		[1969COR/FRA]
$C_8H_{10}O_6$	[59743-08-7]	dioxobutanedioic acid, diethyl ester				
	V	(343–507)	59.3	358	A	[1987STE/MAL, 1947STU]
$C_8H_{10}S$	[766-92-7]	benzyl methyl sulfide				
	V	(336–368)	51.8	351		[1999DYK/SVO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(336–368)	50.8	351	A	[1987STE/MAL]
	V	(323–358)	55.2 ± 2.1	298		[1962MAC/MAY]
$C_8H_{10}S$	[622-38-8]	ethyl phenyl sulfide				
	V	(255–451)	56.4	298		[2004SAW/MOK]
	V	(338–367)	50.9	353		[1999DYK/SVO]
	V	(338–477)	51.7	353	A	[1987STE/MAL]
	V	(323–358)	53.6 ± 2.1			[1962MAC/MAY]
$C_8H_{10}S$	[14092-00-3]	2-(methylthio)toluene				
	V		50.2			[1986BAL/GNA]
$C_8H_{10}S$	[623-13-2]	4-(methylthio)toluene				
	V		50.2			[1986BAL/GNA]
$C_8H_{11}Cl_3OS$	[76619-94-8]	2,3,3-trichloro-2-propenethioic acid, *O*-pentyl ester				
	V	(413–455)	74.1		GC	[1980PIT/KIS]
$C_8H_{11}F_3O_2$	[1549-45-7]	trifluoroacetic acid, cyclohexyl ester				
	V	(345–420)	43	360	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
$C_8H_{11}N$	[121-69-7]	*N*, *N*-dimethylaniline				
	FUS		11.56	275.6	DSC	[1972AHM/EAD2]
	V	(284–323)	53.7 ± 0.5	304		[1997VER]
	V	(363–418)	49.2	378	A	[1987STE/MAL]
	V		52.8 ± 0.1	298	C	[1982FUR/SAK]
	V	(302–467)	47.6	317	A	[1987STE/MAL, 1947STU]
$C_8H_{11}N$	[95-68-1]	2,4-dimethylaniline				
	V	(295–339)	61.3 ± 0.6	317		[1997VER]
	V	(383–485)	55.5	398	A	[1987STE/MAL]
	V	(326–485)	56.9	341		[1947STU]
$C_8H_{11}N$	[95-78-3]	2,5-dimethylaniline				
	FUS		13.7	279	DSC	[1972AHM/EAD2]
	V	(295–339)	61.7 ± 0.7	317		[1997VER]
$C_8H_{11}N$	[87-62-7]	2,6-dimethylaniline				
	V	(286–326)	59.2 ± 0.3	306	GS	[2000VER3]
	V	(286–326)	59.6 ± 0.3	298	GS	[2000VER3]
	V	(373–490)	48.5	388	A	[1987STE/MAL]
	V	(317–491)	50.7	332		[1947STU]
$C_8H_{11}N$	[103-69-5]	*N*-ethylaniline				
	V	(279–318)	58.3 ± 0.6	298		[1997VER]
	V	(311–477)	52.2	326	A	[1987STE/MAL]
$C_8H_{11}N$	[578-54-1]	2-ethylaniline				
	V	(283–323)	60.3 ± 0.9	304.3	GS	[2000VER3]
	V	(283–323)	60.6 ± 0.9	298	GS	[2000VER3]
$C_8H_{11}N$	[589-16-2]	4-ethylaniline				
	V	(393–491)	53.1	408	A	[1987STE/MAL]
	V	(325–490)	54.6	340		[1947STU]
$C_8H_{11}N$	[104-90-5]	5-ethyl-2-methylpyridine				
	V	(348–451)	45.4	363	A	[1987STE/MAL]
	V	(253–276)	51.6	264	GS	[1980VAN/PRA]
$C_8H_{11}N$	[98-84-0]	α-methyl benzylamine				
	V	(284–323)	55.3 ± 0.3	298	GS	[2013THO/CHI]
	V		55.3 ± 2.6	298	CGC	[2013THO/CHI]
	V	(283–318)	54.7 ± 0.3	301	GS	[1999VER4]
	V	(283–318)	54.9 ± 0.3	298	GS	[1999VER4]
$C_8H_{11}N$	[618-36-0]	(*dl*)-α-methyl benzylamine				
	V		54.7 ± 2.4	298	CGC	[2013GOB/RAT]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(292–318)	36.7	305	A	[1987STE/MAL]
	V		54.5 ± 0.1	298	C	[1987ATI/SAI]
$C_8H_{11}N$	[3886-69-9]	(+)-α-methylbenzylamine				
	V		54.1 ± 0.1	298	C	[1987ATI/SAI]
$C_8H_{11}N$	[2627-86-3]	(−)-α-methylbenzylamine				
	V		54.6 ± 0.1	298	C	[1987ATI/SAI]
$C_8H_{11}N$	[104-84-7]	4-methylbenzylamine				
	V	(353–466)	54.4	368	A	[1987STE/MAL]
$C_8H_{11}N$	[64-04-0]	2-phenylethylamine				
	V		56.6 ± 2.4	298	CGC	[2013GOB/RAT]
	V	(285–323)	57.5 ± 0.3	298	GS	[2013THO/CHI]
	V		57.7 ± 2.6	298	CGC	[2013THO/CHI]
	V	(277–351)	55.7 ± 0.2	313	DM	[2009MOK/RAZ]
	V	(277–351)	56.8 ± 0.2	298	DM	[2009MOK/RAZ]
$C_8H_{11}N$	[695-98-7]	2,3,5-trimethylpyridine				
	V	(293–426)	44.0	359		[1995SAK/UEO]
$C_8H_{11}N$	[1462-84-6]	2,3,6-trimethylpyridine				
	V		48.5	328	C	[1985MAJ/SVO2]
	V		47.5	343	C	[1985MAJ/SVO2]
	V		45.7	368	C	[1985MAJ/SVO2]
	V		50.6	298		[1985MAJ/SVO2]
$C_8H_{11}N$	[108-75-8]	2,4,6-trimethylpyridine				
	FUS		9.54	229	AC	[1996DOM/HEA, 1957MAS]
	V		51.4 ± 2.8	298	CGC	[2010LIP/PLI]
	V	(342–373)	50.4 ± 2.9	298	CGC	[2009LIP/CHI2]
	V	(323–373)	50.2	298	CGC	[1995CHI/HOS]
	V	(303–424)	46.5	363		[1995SAK/UEO]
	V	(298–444)	51.2	313	EB	[1990LEN]
	V		50.3 ± 0.2	298		[1985MAJ/SVO2]
	V		48.3	328	C	[1985MAJ/SVO2]
	V		47.2	343	C	[1985MAJ/SVO2]
	V		45.5	368	C	[1985MAJ/SVO2]
$C_8H_{11}N$	[622-39-9]	2-propylpyridine				
	V	(338–445)	46.6	353	A	[1987STE/MAL]
$C_8H_{11}N$	[4673-31-8]	3-propylpyridine				
	V	(350–450)	49.9	365	A	[1987STE/MAL]
$C_8H_{11}N$	[1122-81-2]	4-propypyridine				
	V	(354–465)	47.8	369	A	[1987STE/MAL]
$C_8H_{11}N$	[103434-09-9]	1-norbornylisocyanide				
	SUB		60.6 ± 0.5	298		[1987MEI/DOG]
$C_8H_{11}N$	[3211-90-3]	*exo*-2-cyanobicyclo[2.2.1]heptane				
	TRS		7.95	237.7		
	FUS		2.93	298.8	AC	[1996DOM/HEA, 1995KOL]
$C_8H_{11}N$	[3211-87-8]	*endo*-2-cyanobicyclo[2.2.1]heptane				
	TRS		2.25	177.3		
	FUS		2.96	331.2	AC	[1996DOM/HEA, 1995KOL]
$C_8H_{11}NO$	[122-98-5]	2-anilinoethanol				
	V	(377–553)	69.9	392	A	[1987STE/MAL, 1947STU]
$C_8H_{11}NO$	[94-70-2]	2-ethoxyaniline				
	V	(373–458)	57.3	388	A	[1987STE/MAL]
$C_8H_{11}NO$	[156-43-4]	4-ethoxyaniline				
	V	(421–523)	61.2	436	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{11}NO_2$	[4355-17-3]	3-azabicyclo[3.3.1]nonane-2,4-dione				
	TRS		16.3	408.6		
	FUS		3.3	463.6	DSC	[2007HUL/JOH]
$C_8H_{11}N_3O_3S$	[134678-17-4]	2′,3′-dideoxy-3′-thiacytidine (lamivudine)				
	FUS		20.84	451.8	DSC	[2012CHA/ARO2]
$C_8H_{11}N_3O_4$	[87473-90-3]	methyl *N*-(4,6-dimethoxypyrimidin-2-yl)carbamate				
	FUS	(80–380)	26.29	357.2	AC	[2004XIN/TAN]
$C_8H_{11}N_5$	[116988-56-8]	8-ethyl-9-methyladenine				
	SUB		127.1 ± 0.7			[1994ZIE/ZIE]
	SUB	(365–370)	115.2 ± 1.0	368	ME	[1987KAM/ZIE]
$C_8H_{11}N_5$	[139909-51-6]	6,8,9-trimethyladenine				
	FUS		23.1	438		[1994ZIE/ZIE]
	SUB	(334–342)	98.6 ± 0.2	338	ME	[1994ZIE/ZIE]
$C_8H_{11}N_5$	[3013-82-9]	*N*, *N*,9-trimethyladenine				
	SUB	(319–349)	101.7 ± 2.1		ME	[1984ZIE/ZIE]
$C_8H_{11}N_5O_2$		2-amino-9-[(2-hydroxyethoxy)methyl]-9*H*-purine				
	FUS		42.2	462.2	DSC	[1995KRI/VES]
$C_8H_{11}N_5O_3$	[59277-89-3]	2-amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6*H*-purin-6-one				
	FUS		30.44	528.2	DSC	[1995KRI/VES]
C_8H_{12}	[13027-75-3]	*anti*-tricyclo[4.2.0.0^{2,5}]octane				
	V		41.8 ± 1.7	298		[2008OSM/CAT]
C_8H_{12}	[28636-10-4]	*syn*-tricyclo[4.2.0.0^{2,5}]octane				
	V		41.8 ± 1.7	298		[2008OSM/CAT]
C_8H_{12}	[250-21-5]	tricyclo[3.3.0.0^{2,6}]octane				
	V	(273–343)	40.0	273		[1988LET/SEW]
	V	(273–343)	39.1	298		[1988LET/SEW]
	V	(273–343)	38.3	323		[1988LET/SEW]
C_8H_{12}		cyclooctadiene (mixed isomers)				
	V	(290–474)	34.6	305	A	[1987STE/MAL]
C_8H_{12}	[1552-12-1]	*cis*,*cis*-1,5-cyclooctadiene				
	V		43.4 ± 0.1	298	C	[1996VAR/PAS]
C_8H_{12}	[10092-71-4]	1,5-cyclooctadiene				
	TRS		0.38	194.4		
	FUS	(11–323)	9.83	204		[1996DOM/HEA, 1975LEB/TSV]
	V	(348–386)	40.9	363	A	[1987STE/MAL]
C_8H_{12}	[6553-48-6]	(*dl*)-*trans*-1,2-divinylcyclobutane				
	V	(319–371)	38.9 ± 0.5	298	EB	[1996VAR/PAS]
	V	(350–385)	39.1	365	A	[1987STE/MAL]
	V		42.3	298		[1973RAU/GEY]
	V		39.0 ± 0.5	367		[1973RAU/GEY]
C_8H_{12}	[100-40-3]	(*dl*)-4-vinyl-1-cyclohexene				
	V	(292–405)	40.1	307	A	[1987STE/MAL]
C_8H_{12}	[931-64-6]	bicyclo[2.2.2]octene				
	TRS	(5–411)	0.19	110.5		
	TRS	(5–411)	5.65	176.5		
	FUS	(5–411)	5.4	389.8	AC	[1970WON/WES]
	SUB		43.8 ± 0.4		C	[1970WES/WON, 1977PED/RYL, 1971WON/WES]
C_8H_{12}	[21426-37-9]	dispiro[2.0.2.2]octane				
	V	(280–369)	38.3		DSC	[1995BEC/RUC]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{12}	[25399-32-0]	dispiro[2.1.2.1]octane				
	V	(278–362)	32.2		DSC	[1995BEC/RUC]
$C_8H_{12}BrN_5O_3$	[81475-44-7]	8-bromo-9-[(2-hydroxyethoxy)methyl]quanine				
	FUS		36.44	452.9	DSC	[1999ZIE/GOL]
$C_8H_{12}Cl_2O_5$		diethylene glycol bis(chloroacetate)				
	V	(421–586)	87.3	436	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_8H_{12}I\,NO_2$	[55406-53-6]	3-iodo-2-propynyl butylcarbamate				
	FUS		22.68	341.41	DSC	[2012LIM/JAN]
$C_8H_{12}NO_5PS_2$	[115-93-5]	*O*, *O*-dimethyl *O*-(4-aminosulfonylphenyl)phosphorodithioate				
	FUS		26.21	344.2	DSC	[1990DON/DRE]
$C_8H_{12}N_2$	[42046-61-7]	pentylmalodinitrile				
	V	(298–328)	66.9 ± 0.4		GS	[1990BEC/DOG]
$C_8H_{12}N_2$	[629-40-3]	suberic acid dinitrile (suberonitrile)				
	FUS		21.97	268.9	DSC	[2007BAD/BLA]
	V	(303–339)	77.3	318	A	[1987STE/MAL, 1960WOO/MUR]
$C_8H_{12}N_2$	[3333-52-6]	tetramethylsuccinonitrile				
	TRS		18.1	345		
	FUS		7.15	442	DSC	[1996DOM/HEA, 1970MUR/BRE2]
	SUB		81.2 ± 1.7			[1973LEB/KAT, 1977PED/RYL]
$C_8H_{12}N_2$	[1124-11-4]	tetramethylpyrazine				
	SUB		94.6 ± 4.0	298	C	[1996RIB/MOR]
$C_8H_{12}N_2$	[71614-58-9]	*N*-cyclopentylimidazole				
	V	(305–346)	70.6 ± 0.5	298	GS	[2015VER/ZAI3]
$C_8H_{12}N_2O$	[15029-30-8]	1-(cyanoacetyl)piperidine				
	SUB		103.5 ± 1.9	298	C	[2008RIB/CAB]
$C_8H_{12}N_2O_2$	[31703-08-9]	1,3-dimethyl-5-ethyluracil				
	FUS		19.4	354.4	DSC	[1996KAM/ZIE]
	SUB	(312–321)	98.7 ± 1.7	316	ME	[1996KAM/ZIE]
	SUB	(300–316)	99.3 ± 0.2	308	ME	[1983COL/JIM]
	SUB	(319–340)	110 ± 1.2	330	QR	[1983COL/JIM]
$C_8H_{12}N_2O_2$	[59264-09-4]	1,3,5,6-tetramethyluracil				
	SUB	(350–391)	101.7 ± 0.9	298	GS	[2013NOT/EME]
$C_8H_{12}N_2O_2$	[822-06-0]	1,6-hexamethylene diisocyanate				
	FUS		18.64	206.1		[1996DOM/HEA, 1983BYK/LEB]
$C_8H_{12}N_2O_2S$	[5217-47-0]	1,3-diethyl-2-thiobarbituric acid				
	FUS	(265–365)	35.5	377.1	DSC	[2012ROU/NOT]
	SUB	(327–376)	98.3 ± 0.6	298	GS	[2014NOT/ROU2]
$C_8H_{12}N_2O_2S$	[1709-59-7]	4-amino-*N*, *N*-dimethylbenzene sulfonamide				
	FUS		29.7	444.6	DSC	[2014PER/KAZ]
$C_8H_{12}N_2O_3$	[32479-73-5]	1,3-diethylbarbituric acid				
	FUS		19.6	326.8	DSC	[2011TEM/ROU]
	V	(328–380)	81.4 ± 0.6	298	GS	[2014NOT/ROU2]
$C_8H_{12}N_2O_3$	[57-44-3]	5,5-diethylbarbituric acid (barbital)				
	FUS (I)		25.4	463.2		
	FUS (III)		26.8	456.5		
	FUS (IV)		24.8	454.4		
	FUS (V)		27.3	448.8	DSC	[2014ZEN/GRI]
	TRS		0.7	413.3		
	FUS		24.8	462	DSC	[2009RIB/RIB3]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		24.98	462.6	DSC	[1986CHA/DEM]
	FUS		24.4		DSC	[1982TRE/VAU]
	FUS		28.2		DSC	[1978SEK/TSU]
	SUB	(355–377)	113.9 ± 0.6	366	ME	[2009RIB/RIB3]
	SUB	(355–377)	117.3 ± 0.6	298	ME	[2009RIB/RIB3]
$C_8H_{12}N_2O_3$	[13566-66-0]	1,3,5,5-tetramethylbarbituric acid				
	FUS		18.5	382.2	DSC	[2011TEM/ROU]
	SUB	(323–365)	87.7 ± 0.5	298	GS	[2014NOT/ROU]
$C_8H_{12}N_4O_{10}$	[2555-54-6]	2,2-dinitropropyl-4,4-dinitropentanoate				
	TRS		23.01	330.6		
	FUS		6.28	370.8	DSC	[1971ROS/HOL]
$C_8H_{12}N_4O_{10}$	[34001-51-9]	2-methyl-2-nitropropyl-4,4,4-trinitrobutyrate				
	TRS		24.69	346.1		
	FUS		5.27	349.4	DSC	[1971ROS/HOL]
$C_8H_{12}O$	[59348-18-4]	1-methylnorcamphor				
	V		47.6			[1984KOZ/TIM]
$C_8H_{12}O$	[7040-43-9]	2-*tert*-butylfuran				
	V	(270–308)	38.7 ± 0.4	289	GS	[1998VER/WEL]
	V	(270–308)	38.1 ± 0.4	298	GS	[1998VER/WEL]
$C_8H_{12}OS$	[20387-67-1]	2-oxa-6-thiaadamantane				
	TRS		4.11	224		
	FUS		8.12	557	DSC	[1978AND/CAR]
$C_8H_{12}O_2$	[10279-96-6]	2,6-dioxaadamantane				
	TRS		5.84	276		
	FUS		3.78	444	DSC	[1978AND/CAR]
$C_8H_{12}O_2$	[562-46-9]	4,4-dimethyl-1,3-cyclohexanedione				
	SUB		99.2 ± 2.1	298	ME	[1993PIL/PAR]
$C_8H_{12}O_2$	[126-81-8]	5,5-dimethyl-1,3-cyclohexanedione				
	SUB		99.8 ± 1.1	298	ME	[1993PIL/PAR]
$C_8H_{12}O_2$	[933-52-8]	2,2,4,4-tetramethyl-1,3-cyclobutanedione				
	SUB		70.3 ± 3.5		HSA	[1975CHI]
	SUB		72.2 ± 0.6			[1971SEL2]
	SUB		72.4 ± 0.6		C	[1971MOR]
$C_8H_{12}O_2$	[1489-74-3]	1,5-cyclooctanedione				
	FUS		11.92	341.2		[1972ALV/BOR]
$C_8H_{12}O_2$	[1516-17-2]	*trans,trans*-2,4-hexadienyl acetate				
	V		54.7 ± 1.4	298	CGC	[2015KOZ/GOB]
$C_8H_{12}O_4$	[3971-31-1]	1,3-cyclohexanedicarboxylic acid				
	FUS		12.9	439.0	DSC	[2011BOO/MON]
	SUB	(298–318)	67	308	ME	[2011BOO/MON]
$C_8H_{12}O_4$	[623-91-6]	diethyl fumerate				
	V	(326–492)	53.2	341	A	[1987STE/MAL, 1947STU]
$C_8H_{12}O_4$	[141-05-9]	diethyl maleate				
	V	(330–498)	55.2	345	A	[1987STE/MAL, 1947STU]
$C_8H_{12}O_4S$	[925-47-3]	thiodiacetic acid, diethyl ether				
	V	(385–448)	77.7	400		[1999DYK/SVO]
$C_8H_{12}S_6$	[6327-74-8]	1,3,5,7-tetramethyl-2,4,6,8,9,10-hexathiatricyclo[3.3.1.13.7]decane				
	FUS		23.7	501.4	DSC	[2002BOU/SAI]
$C_8H_{13}ClN_2O_2$	[5902-51-2]	5-chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1*H*,3*H*)-pyrimidinedione				

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	FUS		12.51	448	DSC	[1990DON/DRE]
C_8H_{14}	[280-33-1]	bicyclo[2.2.2]octane				
	TRS		4.6	164		[1984DOM/EVA]
	TRS	(5–465)	4.6	164.3		
	FUS	(5–465)	8.37	447.5	AC	[1991ACR, 1970WON/WES]
	SUB	(323–363)	46.3 ± 0.8	343	BG	[1971BOY/SAN, 1977PED/RYL, 1987STE/MAL]
	SUB		47.7 ± 0.8	298		[1971BOY/SAN, 1977PED/RYL]
	SUB		48.0 ± 2		C	[1970WES/WON, 1971BOY/SAN, 1977PED/RYL]
C_8H_{14}	[1755-05-1]	*cis*-bicyclo[3.3.0]octane				
	V	(298–318)	42.0	308	A	[1987STE/MAL]
[Note: The coefficients in [1987STE/MAL] came from [1970CHA/MCN]. The coefficients pertain to log P = A − B/T + C log T, and not the Antoine equation.]						
	V		41.5 ± 0.4	318	EB	[1970CHA/MCN]
	V		43.1 ± 0.8	298	EB	[1970CHA/MCN]
C_8H_{14}	[5597-89-7]	*trans*-bicyclo[3.3.0]octane				
	V	(298–320)	41.4	309	A	[1987STE/MAL]
[Note: The coefficients in [1987STE/MAL] came from [1970CHA/MCN]. The coefficients pertain to log P = A -B/T + C log T, and not the Antoine equation.]						
	V		41.3 ± 0.4	320	EB	[1970CHA/MCN]
	V		42.7 ± 0.8	298	EB	[1970CHA/MCN]
C_8H_{14}	[28282-35-1]	*cis*-bicyclo[4.2.0]octane				
	V	(298–347)	40.7	313	A	[1987STE/MAL]
[Note: The coefficients in [1987STE/MAL] came from [1970CHA/MCN]. The coefficients pertain to log P = A -B/T + C log T, and not the Antoine equation.]						
	V		39.5 ± 0.4	347	EB	[1970CHA/MCN]
	V		42.7 ± 1.2	298	EB	[1970CHA/MCN]
C_8H_{14}	[16526-90-2]	*cis*-bicyclo[5.1.0]octane				
	V	(297–322)	43.6 ± 0.8	309	A, EB	[1987STE/MAL, 1970CHA/MCN]
C_8H_{14}	[286-43-1]	bicyclo[5.1.0]octane				
	V		43.5 ± 0.8	298		[2008OSM/CAT]
C_8H_{14}	[931-88-4]	cyclooctene				
	TRS	(8–330)	9.8	190.1		
	FUS	(8–330)	1.81	259.2	AC	[1994LEB/SMI]
	V	(273–411)	42.0	288	A	[1987STE/MAL]
	V	(273–333)	41.6	300		[1941LIS]
C_8H_{14}	[695-12-5]	vinylcyclohexane				
	V		39.7 ± 0.2	298	GCC	[1979FUC/PEA]
C_8H_{14}	[3524-75-2]	allylcyclopentane				
	V		40.4 ± 0.2	298	GCC	[1979FUC/PEA]
C_8H_{14}	[627-58-7]	2,5-dimethyl-1,5-hexadiene				
	V	(330–388)	38.8	345	A	[1987STE/MAL]
C_8H_{14}	[24253-25-6]	3,3-dimethyl-1,5-hexadiene				
	V	(293–371)	35.2	308	A	[1987STE/MAL, 1969FRE/SOL]
C_8H_{14}		3,4-dimethylhexadiene				
	SUB		53.1			[1956SEK/SUZ, 1960JON]
C_8H_{14}	[1453-24-3]	1-ethylcylohexene				
	V	(353–412)	39.1	368	A	[1987STE/MAL]
	V	(332–411)	40.1	347	MM	[1960CAM/ROS]
C_8H_{14}	[2439-79-4]	1-methylbicyclo[4.1.0]heptane				
	V	(340–394)	37.2	355	A	[1987STE/MAL]
C_8H_{14}	[629-05-0]	1-octyne				
	V		42.3 ± 0.1	298	C	[1983HAL/STE]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(357–400)	38.5	372	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_8H_{14}	[2809-67-8]	2-octyne				
	V		44.5 ± 0.1	298	C	[1983HAL/STE]
	V	(368–412)	39.9	383	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_8H_{14}	[15232-76-5]	3-octyne				
	V		43.9	298		[UR/FUC, 1985MAJ/SVO]
	V	(363–406)	39.7	378	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_8H_{14}	[1942-45-6]	4-octyne				
	V		42.7 ± 0.1	298	C	[1983HAL/STE]
	V	(362–405)	39.6	377	A	[1987STE/MAL, 1970EIS/ORA, 1984BOU/FRI]
C_8H_{14}	[765-90-2]	*endo*-2-methylbicyclo[2.2.1]heptane				
	TRS		4.73	152.4		
	FUS		1.62	278.3	AC	[1996DOM/HEA, 1964SER/GOR]
C_8H_{14}	[872-78-6]	*exo*-2-methylbicyclo[2.2.1]heptane				
	FUS		8.37	164.1	AC	[1996DOM/HEA, 1964SER/GOR]
$C_8H_{14}Br_2$	[29974-69-4]	1,2-dibromocyclooctane				
	V	(292–354)	50.3	307	A	[1987STE/MAL, 1941LIS]
$C_8H_{14}ClN_5$	[1912-24-9]	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine (atrazine)				
	FUS		Not given	448.3	DSC	[2013JIA/LI]
[Note: Authors of [2013JIA/LI] reported that the enthalpy of fusion could not be determined because the compound decomposed shortly after melting.]						
	FUS		34.2		DSC	[1971GET/WAR]
	SUB	(324–354)	114.6	339	GS	[1982GRA/FOS]
	SUB	(323–403)	113.8	338	GS-GC	[1964FRI/STA, 1987STE/MAL]
$C_8H_{14}Cl_2S$	[16660-53-0]	(2-chlorocyclohexyl)(2-chloroethyl) sulfide				
	V	(293–333)	62.5	308	A, GS	[1987STE/MAL, 1948RED/CHA, 1999DYK/SVO]
$C_8H_{14}N_2$	[62842-38-0]	2-piperidinopropionitrile				
	V	(283–318)	57.6 ± 0.3		GS	[1997WEL/VER]
$C_8H_{14}N_2$	[49570-30-1]	1,4-dimethyl-2,3-diazabicyclo[2.2.2]octane				
	SUB		72.0 ± 0.5	298	C	[1976ENG/MEL]
$C_8H_{14}N_2$	[19768-54-8]	1-pentylimidazole				
	V	(308–366)	69.1 ± 0.5	298	GS	[2011EME/POR]
$C_8H_{14}N_2$	[13435-22-8]	1-butyl-2-methylimidazole				
	V	(294–343)	67.8 ± 0.2	298	GS	[2011EME/POR2]
$C_8H_{14}N_2$	[54714-50-0]	azepan-1-ylacetone				
	V		62.2 ± 0.5	298	C	[2014FRE/LEI]
$C_8H_{14}N_2O_2$	[19701-85-0]	α-acetylproline *N*-methylamide				
	FUS		24.94	375.9	DSC	[2014BAD/DEL]
	SUB	(308–318)	69.1	313	A	[1987STE/MAL, 1955AIH]
$C_8H_{14}N_2O_2$		*N*-acetyl-DL-proline-*N*′-methylamide				
	FUS		26.06	378.1	DSC	[2014BAD/DEL]
$C_8H_{14}N_2O_2$		β-acetylproline *N*-methylamide				
	SUB	(319–335)	60.7	327	A	[1987STE/MAL, 1955AIH]
$C_8H_{14}N_4OS$	[21087-64-9]	4-amino-6-(1,1-dimethylethyl)-3-(methylthio)1,2,4-triazin-5(4*H*)-one				
	FUS		18.0	399.4	DSC	[1991ACR, 1990DON/DRE]
$C_8H_{14}N_4O_2$	[10095-06-4]	2,4,6,8-tetramethylglycoluril (mebicarum)				
	SUB		108 ± 3	298	ME, MS	
$C_8H_{14}N_5Cl$	[1912-24-9]	6-chloro-*N*-ethyl-*N*′ (isopropyl)-1,3,5-triazine-2,4-diamine				
	FUS		38.15	449.7	DSC	[1990DON/DRE]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{14}N_6O_{10}$	[14173-62-7]	1,7-diacetoxy-2,4,6-trinitro-2,4,6-triazaheptane				
	FUS		38.49	422.5	DSC	[1996DOM/HEA, 1971HAL]
$C_8H_{14}O$	[502-49-8]	cyclooctanone				
	V	(343–383)	54.4	298	CGC	[1995CHI/HOS]
	V	(343–383)	53.6	298	CGC	[1995CHI/HOS]
	V	(343–383)	54.2	298	CGC	[1995CHI/HOS]
	V	(323–403)	47.3	338	A	[1987STE/MAL, 1972WOL]
	V	(394–484)	46.8	409	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(323–403)	48.5 ± 0.6	298	VP	[1972WOL]
$C_8H_{14}O$	[645-62-5]	2-ethyl-2-hexenal				
	V	(326–448)	48.4	341	A	[1987STE/MAL, 1961DYK/SEP]
$C_8H_{14}O$	[28419-86-5]	2-ethyl-4-methyl-2-pentenal				
	V	(311–436)	46.7	326	A	[1987STE/MAL, 1961DYK/SEP]
$C_8H_{14}O$	[110-93-0]	6-methyl-5-hepten-2-one				
	V	(284–327)	52.4 ± 0.1	298	Static	[2015ZAI/VER]
	V	(274–313)	51.0 ± 0.4	298	GS	[2015ZAI/VER]
	V	(364–393)	45.9	379	EB	[1989WAN/YIN]
	V	(328–451)	44.7 ± 0.2	390	Static	[1988BAG/GUR]
	V	(328–451)	51.8 ± 0.4	298	Static	[1988BAG/GUR, 2015ZAI/VER]
$C_8H_{14}O$	[1193-70-0]	(*dl*)-2-propylcyclopentanone				
	V	(332–457)	46.0	347	A	[1987STE/MAL]
$C_8H_{14}O$	[283-27-2]	3-oxabicyclo[3.2.2]nonane				
	TRS	(6–480)	7.02	208.5		
	FUS	(6–480)	6.75	448.4		[1996DOM/HEA, 1970WES/WON]
	SUB		53.1 ± 0.5			[1971WON/WES, 1977PED/RYL]
	SUB		53.3 ± 0.1	298	ME	[1970WES/WON]
$C_8H_{14}O_2$	[5292-21-7]	cyclohexylacetic acid				
	FUS		13.8	302.6	DSC	[2008DOM/MOR]
$C_8H_{14}O_2$	[5698-29-3]	octanolactone				
	V	(345–380)	48.9 ± 0.2	362	MM	[1991WIB/WAL]
	V	(345–380)	52.8 ± 1.3	298	MM	[1991WIB/WAL]
$C_8H_{14}O_2$	[698-76-0]	δ-octanolactone				
	V		66.6 ± 4.0	298	CGC	[2014KOZ/GOB]
	V	(288–353)	67.0 ± 0.2	298	GS	[2007EME/KOZ]
$C_8H_{14}O_2$	[104-50-7]	γ-octanolactone				
	V		66.0 ± 3.9	298	CGC	[2014KOZ/GOB]
$C_8H_{14}O_2$		acrylic acid, neopentyl ester				
	V	(301–325)	45.7	313	A	[1987STE/MAL]
$C_8H_{14}O_2$	[3891-33-6]	1,4-butanediol divinyl ether				
	V	(335–440)	49.0	350	A	[1987STE/MAL]
$C_8H_{14}O_2$	[97-88-1]	butyl methacrylate				
	FUS		15.55	197.8		[1995LEB/KUL]
	V	(343–373)	47.4	358	A	[1987STE/MAL]
	V	(344–437)	45.1	359	A	[1987STE/MAL]
$C_8D_{14}O_2$	[158612-79-4]	perdeuteriobutyl methacrylate				
	FUS	(10–330)	16.04	198.1	AC	[1995LEB/KUL]
$C_8H_{14}O_2$	[5453-85-0]	cyclopentanecarboxylic acid ethyl ester				
	V	(275–308)	51.2 ± 0.6		GS	[1996VIT/CHA]
$C_8H_{14}O_2$	[177-10-6]	1,4-dioxaspiro[4.5]decane				
	V	(278–308)	50.6 ± 0.6	298	GS	[1998VER/PEN, 2002VER]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{14}O_2$	[622-45-7]	cyclohexyl acetate				
	FUS		3.38	221.45	DSC	[2008DOM/MOR]
[Note: The value reported in [2008DOM/MOR] seems abnormally small.]						
	TRS		5.23	221.8		
	FUS	(5–320)	8.0	224.6	AC	[1999KAB/KOZ, 2001KOZ/BLO]
	V		52.3 ± 0.2	298	C	[2004PAU/ZAI, 2003ZAI/VER]
	V	(253–283)	56.5 ± 0.5	298	ME	[2003ZAI/VER]
	V	(253–283)	52.6 ± 0.5	298	ME	[2003ZAI/VER]
	V	(274–318)	52.3 ± 0.8	298	GS	[2003ZAI/VER]
	V	(333–378)	51.7	298	CGC	[1999VER/HEI]
	V	(278–318)	51.7 ± 0.2	298	GS	[1996VER/BEC]
	V	(368–446)	46.7	383	A, EB	[1987STE/MAL, 1969SHE/LAN]
$C_8H_{14}O_2$	[585-07-9]	methylacrylic acid, *tert*-butyl ester				
	V	(313–410)	42.9	328	A	[1987STE/MAL]
$C_8H_{14}O_2$	[2998-23-4]	pentyl acrylate				
	V	(325–440)	44.9	340	A	[1987STE/MAL]
$C_8H_{14}O_2$	[142-30-3]	2,5-dimethyl-3-hexyne-2,5-diol				
	V		82.8 ± 1.0	298	CGC	[2006UMN/KWE]
$C_8H_{14}O_2$	[56922-71-5]	propyl 3-methylbut-2-enoate				
	V	(278–311)	53.0 ± 0.2	298	GS	[2008EME/TOK]
$C_8H_{14}O_2$	[25859-51-2]	isopropyl 3-methylbut-2-enoate				
	V	(279–313)	50.0 ± 0.2	298	GS	[2008EME/TOK]
$C_8H_{14}O_3$	[106-31-0]	butyric anhydride				
	V	(349–470)	49.1	364	A	[1987STE/MAL]
$C_8H_{14}O_3$	[764-99-8]	diethylene glycol divinyl ether				
	V	(336–470)	50.0	351	A	[1987STE/MAL]
$C_8H_{14}O_3$	[607-97-6]	2-ethylacetoacetic acid, ethyl ester				
	V	(313–471)	53.3	328	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_3$	[21884-26-4]	isopropyl levulinate				
	V	(321–481)	56.6	336	A	[1987STE/MAL, 1947STU]
	V		52.0	422		[1931SCH/COW]
$C_8H_{14}O_3$	[645-67-0]	propyl levulinate				
	V	(332–495)	56.3	347	A	[1987STE/MAL]
	V		54.0	436		[1931SCH/COW]
$C_8H_{14}O_4$	[20473-73-8]	2-acetoxypropionic acid, propyl ester				
	V	(318–469)	59.5	333	A	[1987STE/MAL, 1950REH/DIX]
$C_8H_{14}O_4$	[200867-13-6]	3-acetoxypropionic acid, propyl ester				
	V	(361–373)	74.7	367	A	[1987STE/MAL, 1948FEI/FIS]
$C_8H_{14}O_4$	[123-25-1]	diethyl succinate				
	V	(393–468)	51.2	408		[2011MAT/KIM]
	V	(290–346)	63.5		GS	[2011LIP/KRA]
	V	(290–346)	65.1 ± 0.3	298	GS	[2011LIP/KRA]
	V	(327–490)	56.5	342	A	[1987STE/MAL]
	V	(327–490)	64.5	298	A	[1987STE/MAL, 2011LIP/KRA]
	V	(328–490)	54.7	409		[1947STU, 2011LIP/KRA]
	V	(328–490)	64.5	298		[1947STU, 2011LIP/KRA]
	V	(335–455)	54.7	395		[1940HEI/REI, 2011LIP/KRA]
	V	(335–455)	63.8 ± 1.1	298		[1940HEI/REI, 2011LIP/KRA]
$C_8H_{14}O_4$	[615-81-6]	diisopropyl oxalate				
	V	(288–330)	60.2 ± 0.4	298	GS	[2011POR/KRA]
	V	(418–501)	57.8	433	A	[1987STE/MAL]
	V	(316–467)	62.3	298	A	[1987STE/MAL, 2011POR/KRA]
	V	(316–467)	57.6	331	A	[1987STE/MAL, 1947STU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{14}O_4$	[627-93-0]	dimethyl adipate				
	V	(353–443)	74.6	368		[2007LEE/LAI]
	V	(294–373)	69.0 ± 0.2	298	GS	[2006VER/KOZ]
	V	(293–344)	67.1 ± 0.3	298	GS	[2006VAS/VER, 2006VER/KOZ]
	V	(293–323)	U55.9 ± 2.0	298	TE	[1997CHE/LIA, 2006VER/KOZ]
	V	(382–500)	58.8	397	A	[1987STE/MAL]
	V	(428–498)	73.4	298		[1963VLA/GRA, 2006VER/KOZ]
$C_8H_{14}O_4$	[615-98-5]	dipropyl oxalate				
	V	(326–487)	57.8	341	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_4$	[123-80-8]	ethylene dipropionate				
	V	(295–323)	63.1 ± 1.0		GS	[2011MAS/KRA]
	V		67.6 ± 0.5	298	C	[1986NIL/WAD]
$C_8H_{14}O_4$	[609-08-5]	2-methylmalonic acid, diethyl ester				
	V	(373–468)	55.5	388		[2005LEE/SU]
	V	(312–475)	52.5	327	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_4$	[505-48-6]	octanedioic acid (suberic acid)				
	TRS		2.0	335.9		
	TRS		9.1	403.6		
	FUS		30.7	413.2	DSC	[2005ROU/TEM]
	FUS		28.82	415.3	DSC	[1991ACR, 1974CIN/BER]
	SUB	(348–378)	168 ± 7		TPD	[2007CAP/LOV]
	SUB	(310–320)	148		TPTD	[2001CHA/TOB]
	SUB		147.8 ± 3.8	298		[1999RIB/MON, 1960DAV/THO]
	SUB	(379–407)	143.1 ± 3.8	393	M	[1960DAV/THO, 1970COX/PIL, 1987STE/MAL]
	V	(424–503)	116.7 ± 0.8	298	CGC	[2005ROU/TEM]
	V	(445–619)	91.4	460	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_4$	[630-51-3]	tetramethysuccinic acid				
	TRS		13.43	383		
	FUS		6.47	464	DSC	[1996DOM/HEA, 1970MUR/BRE2]
$C_8H_{14}O_4S$	[925-47-3]	thiodiacetic acid, diethyl ester				
	V	(384–448)	77.3	399	A	[1987STE/MAL]
$C_8H_{14}O_5$		isopropyl[1-(methoxycarbonyl)ethyl] carbonate				
	V	(330–493)	55.5	345	A	[1987STE/MAL]
$C_8H_{14}O_5$		2-(lactyloxy)propionic acid, ethyl ester				
	V	(321–389)	72.8	336	A	[1987STE/MAL, 1952REH/DIX]
$C_8H_{14}O_5$	[7554-12-3]	malic acid, diethyl ester				
	V	(353–527)	59.6	368	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_5$	[902263-88-1]	propyl[1-(methoxycarbonyl)ethyl] carbonate				
	V	(373–495)	58.0	388	A	[1987STE/MAL]
$C_8H_{14}O_6$	[13811-71-7]	(*d*)-diethyl tartrate				
	V	(375–553)	65.9	390		[1947STU]
$C_8H_{14}O_6$	[87-91-2]	(*dl*)-diethyl tartrate				
	V	(375–553)	67.3	390	A	[1987STE/MAL, 1947STU]
$C_8H_{14}O_6$		(*d*)-dimethoxysuccinic acid dimethyl ester				
	SUB		53.1			[1937DUN/WOL]
$C_8H_{14}O_6$		(*dl*)-dimethoxysuccinic acid dimethyl ester				
	SUB		57.7			[1937DUN/WOL]
$C_8H_{14}O_6$		*meso*-dimethoxysuccinic acid dimethyl ester				
	SUB		74.1			[1937DUN/WOL]
$C_8H_{14}O_6S$	[29771-87-7]	sulfonyldiacetic acid, diethyl ester				
	V	(421–494)	88.2	426		[1999DYK/SVO]
	V	(421–494)	87.6	436	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{14}O_6S$	[5450-67-9]	dimethyl 3,3′-sulfonyldipropionate				
	FUS		41.1	390.3	DSC	[1994WAN/KUO]
$C_8H_{15}Br$	[1647-26-3]	(2-bromoethyl)cyclohexane				
	V	(311–486)	54.2	326	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_8H_{15}ClO$	[111-64-8]	octanoyl chloride				
	V	(343–373)	74.5	358	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{15}ClO$	[99222-85-2]	5-methylheptanoyl chloride				
	V	(338–373)	66.3	353	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{15}Cl_3O_4$		trichlorohydrine pentaerythritol				
	V	(404–449)	80.4	419		[1965LUT/KOL]
$C_8H_{15}N$	[283-24-9]	3-azabicyclo[3.2.2]nonane				
	TRS	(5–350)	14.48	297.8	AC	[1963BAR/WES]
	FUS	(280–490)	6.92	466.6	AC	[1996DOM/HEA, 1964WUL/WES]
	SUB		57.8 ± 1.3	298	C	[1970WES/WON]
	SUB	(303–443)	52.2	318	A	[1987STE/MAL, 1964WUL/WES]
$C_8H_{15}N$	[124-12-9]	octanenitrile				
	V	(283–310)	55.7 ± 0.2	298	GS	[2005EME/VER]
	V	(373–480)	50.0	388	A	[1987STE/MAL]
	V		56.8 ± 0.3	298	C	[1977STRI/SUN]
	V	(374–420)	49.8	389	EB	[1971MEY/REN]
	V	(420–479)	48.0	435	EB	[1971MEY/REN]
	V	(316–477)	56.7	331		[1947STU]
	V	(322–460)	53.5	298	EB	[1941RAL/SEL, 2005EME/VER]
	V	(294–477)	57.2 ± 0.3	298	MM	[1933HEI, 2005EME/VER]
$C_8H_{15}NO$	[4747-81-3]	heptyl isocyanate				
	V	(326–461)	47.5	341	A	[1987STE/MAL]
$C_8H_{15}NO$	[6554-73-0]	methacrylic acid *N*-*tert*-butylamide				
	V	(340–467)	49.6	355	A	[1987STE/MAL]
$C_8H_{15}NO$		*trans*-2-octenoic acid amide				
	SUB	(373–393)	73.5	383	A	[1987STE/MAL]
$C_8H_{15}NO$	[935-30-8]	azacyclononan-2-one				
	FUS		18.9	348.5	DSC	[2012EME/VER]
	SUB	(309–344)	102.3 ± 0.5	298	GS	[2012EME/VER]
	V	(353–373)	85.3 ± 0.5	298	GS	[2012EME/VER]
$C_8H_{15}NO_2$	[2867-47-2]	methacrylic acid, 2-(dimethylamino)ethyl ester				
	FUS		16.85	237.7	AC	[1996DOM/HEA, 1985KAR/ABD]
	V	(372–460)	48.8	387	A	[1987STE/MAL]
$C_8H_{15}NO_2$		1-lactopiperidine				
	V	(346–408)	62.1	361	A	[1987STE/MAL]
$C_8H_{15}NO_2$	[1563-86-6]	*N*-acetyl-*N*-butylacetamide				
	V		64.4 ± 0.4	298	C	[1965WAD]
$C_8H_{15}NO_3$	[5411-58-5]	*N*, *N*-diethyloxamic acid, ethyl ester				
	V	(349–525)	60.5	364	A	[1987STE/MAL, 1947STU]
$C_8H_{15}N_5O$	[673-04-1]	2-methoxy-4,6-bis(ethylamino)-1,3,5-triazine (simatone)				
	FUS		24.7		DSC	[1971GET/WAR]
	SUB	(323–403)	98.2	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_8H_{15}N_5S$	[1014-70-6]	2-methylthio-4,6-bis(ethylamino)-1,3,5-triazine (simetryn)				
	FUS		24.0	353.2		[2007VEC/BRU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		120 ± 6	298	DSC	[2007VEC/BRU]
	SUB		115 ± 4	298	DSC	[2007VEC/BRU]
	SUB	(323–355)	101.3	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
	V		88 ± 4	461	DSC	[2007VEC/BRU]
	V		83.7 ± 1.3	453	TGA	[2007VEC/BRU]
$C_8H_{15}N_5S$	[1014-69-3]	2-methylthio-4-methylamino-6-isopropyl-1,3,5-triazine				
	SUB	(323–357)	101.5	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_8H_{15}N_7O_2S_3$	[76824-35-6]	3-[[[2-[(aminoiminomethyl)amino]-4-thiazolyl]methyl]thio]-*N*-(aminosulfonyl)propanimidamide (famotidine)				
	FUS (I)		48.17	445.65		
	FUS (II)		50.28	439.35	DSC	[2015MAT/MOR]
	FUS (I)		49.7	447.0		
	FUS (II)		48.6	438.6	DSC	[2007LU/WAN]
	FUS (I)		45.81	444.4		
	FUS (II)		43.92	436.6	DSC	[2002ROU/DAV]
	SUB		207		TGA	[1997ELD]
C_8H_{16}	[16747-50-5]	1-ethyl-1-methylcyclopentane				
	V	(332–422)	36.9 ± 0.1	332	C	[1981HOS/SCO3]
	V	(332–422)	35.9 ± 0.1	350	C	[1981HOS/SCO3]
	V	(332–422)	34.7 ± 0.1	371	C	[1981HOS/SCO3]
	V	(332–422)	33.9 ± 0.1	384	C	[1981HOS/SCO3]
	V	(332–422)	32.2 ± 0.1	410	C	[1981HOS/SCO3]
	V	(332–422)	38.8	298	C	[1981HOS/SCO3]
C_8H_{16}	[292-64-8]	cyclooctane				
	TRS		6.32	166.5		
	TRS		0.48	183.8		
	FUS		2.41	288		[1991ACR, 1956FIN/SCO]
	TRS		5.72	167.2		
	FUS		2.51	288		[1952KAA/COO]
	SUB		58.7	166	B	[1963BON]
	V	(358–413)	40.3	373		[1991WU/LOC]
	V		43.1 ± 0.2		GC	[1989AZA]
	V	(289–369)	43.3	304	A	[1987STE/MAL]
	V	(373–434)	39.3	388	EB	[1976MEY/HOT]
	V	(291–323)	43.1	306		[1975ANA/GRO]
	V		43.3 ± 0.2	298		[1956FIN/SCO]
	V	(369–467)	39.4	384	A, EB	[1987STE/MAL, 1956FIN/SCO]
C_8H_{16}	[590-66-9]	1,1-dimethylcyclohexane				
	TRS		5.98	153.2		
	FUS	(12–303)	2.01	239.8	AC	[1996DOM/HEA, 1949HUF/TOD]
	V	(271–303)	39.6 ± 0.1	287	GS	[1995CHI/HES]
	V		38.8 ± 0.1	298		[1995CHI/HES]
	V		37.9	298		[1975KUS/SAI]
	V		37.8	298		[1971WIL/ZWO]
	V	(313–395)	36.6	328	A	[1987STE/MAL, 1949FOR/NOR]
C_8H_{16}	[2207-01-4]	*cis*-1,2-dimethylcyclohexane				
	TRS		8.26	172.5		
	FUS	(12–298)	1.64	223.3	AC	[1996DOM/HEA, 1949HUF/TOD]
	V		39.4	298		[1975KUS/SAI]
	V		39.7	298		[1971WIL/ZWO]
	V		35.5 ± 0.1	370	C	[1951MCC/PER]
	V		34.5 ± 0.1	387	C	[1951MCC/PER]
	V		39.7 ± 0.1	298	C	[1947OSB/GIN]
	V	(322–405)	38.0	337	A, MM	[1987STE/MAL, 1945WIL/TAY]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[6876-23-9]	(*dl*)-*trans*-1,2-dimethylcyclohexane				
	FUS	(12–301)	10.5	185	AC	[1996DOM/HEA, 1949HUF/TOD]
	V		38.3	298		[1975KUS/SAI]
	V		38.4	298		[1971WIL/ZWO]
	V		34.4 ± 0.1	373	C	[1951MCC/PER]
	V		33.5 ± 0.1	387	C	[1951MCC/PER]
	V		38.4 ± 0.1	298	C	[1947OSB/GIN]
	V	(316–399)	37.0	331	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{16}	[638-04-0]	*cis*-1,3-dimethylcyclohexane				
	FUS	(12–299)	10.82	197.6	AC	[1996DOM/HEA, 1949HUF/TOD]
	V	(318–396)	36.8	333	A	[1987STE/MAL]
	V		38.1	298		[1975KUS/SAI]
	V		38.2	298		[1971WIL/ZWO]
	V		34.9 ± 0.1	363	C	[1951MCC/PER]
	V		33.3 ± 0.1	385	C	[1951MCC/PER]
	V		38.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(316–398)	37.7	331	MM	[1945WIL/TAY]
C_8H_{16}	[2207-03-6]	(*dl*)-*trans*-1,3-dimethylcyclohexane				
	FUS	(13–299)	9.87	183.1	AC	[1996DOM/HEA, 1949HUF/TOD]
	V	(314–400)	37.9	329	A	[1987STE/MAL]
	V		39.1	298		[1975KUS/SAI]
	V		39.2	298		[1971WIL/ZWO]
	V		39.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(314–394)	37.4	329	MM	[1945WIL/TAY]
C_8H_{16}	[624-29-3]	*cis*-1,4-dimethylcyclohexane				
	FUS	(12–303)	9.29	185.7	AC	[1996DOM/HEA, 1949HUF/TOD]
	V		39.0	298		[1975KUS/SAI]
	V		39.0	298		[1971WIL/ZWO]
	V		39.0 ± 0.1	298	C	[1947OSB/GIN]
	V	(317–400)	37.6	332	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{16}	[2207-04-7]	(*dl*)-*trans*-1,4-dimethylcyclohexane				
	FUS	(12–299)	12.34	236.2	AC	[1996DOM/HEA, 1949HUF/TOD]
	V		37.6	298		[1975KUS/SAI]
	V		37.9	298		[1971WIL/ZWO]
	V		35.6 ± 0.1	341	C	[1951MCC/PER]
	V		34.6 ± 0.1	357	C	[1951MCC/PER]
	V		33.5 ± 0.1	377	C	[1951MCC/PER]
	V		39.9 ± 0.1	298	C	[1947OSB/GIN]
	V	(313–395)	36.7	328	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{16}	[1678-91-7]	ethylcyclohexane				
	FUS		8.45	161.9	AC	[2015RAM/CHI]
	FUS		8.5	161.5	Quasi-AC	[2006MAN/CUT]
	FUS	(12–299)	8.33	161.4		[1996DOM/HEA, 1949HUF/TOD]
	V		39.2 ± 0.4	298	GC	[1987AZA]
	V		39.8 ± 0.1	313	C	[1981SVO/CHA]
	V		38.9 ± 0.1	328	C	[1981SVO/CHA]
	V		37.9 ± 0.1	343	C	[1981SVO/CHA]
	V		37.0 ± 0.1	358	C	[1981SVO/CHA]
	V		36.3 ± 0.1	368	C	[1981SVO/CHA]
	V		40.0 ± 0.4	298	GCC	[1978FUC/PEA]
	V		40.4	298		[1975KUS/SAI]
	V		40.5	298		[1971WIL/ZWO]
	V		40.5 ± 0.1	298	C	[1947OSB/GIN]
	V	(323–407)	38.6	338	A, MM	[1987STE/MAL, 1945WIL/TAY]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[2040-96-2]	propylcyclopentane				
	FUS	(12–364)	10.04	155.8	AC	[1996DOM/HEA, 1965MES/TOD]
	V		41.1	298		[1971WIL/ZWO]
	V		41.1 ± 0.1	298	C	[1947OSB/GIN]
	V	(323–406)	39.2	338	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{16}	[3875-51-2]	isopropylcyclopentane				
	V		37.9	298		[1971WIL/ZWO]
	V		39.4 ± 0.1	298	C	[1947OSB/GIN]
	V	(320–403)	37.9	335	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{16}	[4259-00-1]	1,1,2-trimethylcyclopentane				
	V		36.3	324	A, MM	[1987STE/MAL, 1949FOR/NOR]
C_8H_{16}	[4516-69-2]	1,1,3-trimethylcyclopentane				
	V		35.4	316	A, MM	[1987STE/MAL, 1949FOR/NOR]
C_8H_{16}	[16747-50-5]	1-ethyl-1-methylcyclopentane				
	V	(331–397)	36.7	346	A	[1987STE/MAL]
	V	(238–288)	40.2	273	IPM	[1987STE/MAL, 1974OSB/DOU]
	V		38.9	298		[1971WIL/ZWO]
	V	(316–396)	37.3	331		[1949FOR/NOR]
C_8H_{16}	[930-89-2]	*(dl)-cis*-1-ethyl-2-methylcyclopentane				
	V	(238–304)	42.5	253	A	[1987STE/MAL]
	V	(303–403)	39.3	318	A	[1987STE/MAL]
	V	(238–288)	41.6	273	IPM	[1974OSB/DOU]
	V		40.2	298		[1971WIL/ZWO]
	V	(322–402)	38.3	337		[1949FOR/NOR]
C_8H_{16}	[930-90-5]	*trans*-1-ethyl-2-methylcyclopentane				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[2613-66-3]	*cis*-1-ethyl-3-methylcyclopentane				
	V		39.3	298		[1941KIR/SIT]
C_8H_{16}	[2613-65-2]	*trans*-1-ethyl-3-methylcyclopentane				
	V		38.9	298		[1941KIR/SIT]
C_8H_{16}	[4259-00-1]	1,1,2-trimethylcyclopentane				
	V		37.2	298		[1971WIL/ZWO]
C_8H_{16}	[4516-69-2]	1,1,3-trimethylcyclopentane				
	V		36.0	298		[1971WIL/ZWO]
C_8H_{16}		*cis, cis*-1,2,3-trimethylcyclopentane				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}		*cis, cis*-1,2,4-trimethylcyclopentane				
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[15890-40-1]	*cis*-1,2-*trans*-3-trimethylcyclopentane				
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[4850-28-6]	*cis*-1,2-*trans*-4-trimethylcyclopentane				
	V	(311–392)	36.8	326	A, MM	[1987STE/MAL, 1949FOR/NOR]
C_8H_{16}	[13398-35-1]	*trans*-1,2-*cis*-4-trimethylcyclopentane				
	V		36.8	298		[1971WIL/ZWO]
	V	(305–385)	36.0	320	A, MM	[1987STE/MAL, 1949FOR/NOR]
C_8H_{16}	[111-66-0]	1-octene				
	FUS	(11–308)	15.31	171.5	C	[1996DOM/HEA, 1957MCC/FIN]
	V	(373–423)	40.6	298	CGC	[1995CHI/HOS]
	V		39.5 ± 0.1	313	C	[1982SVO/CHA]
	V		38.6 ± 0.1	328	C	[1982SVO/CHA]
	V		37.6 ± 0.1	343	C	[1982SVO/CHA]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		36.6 ± 0.1	358	C	[1982SVO/CHA]
	V		35.8 ± 0.1	368	C	[1982SVO/CHA]
	V	(263–291)	40.2	277	MM	[1981CHI/HYM]
	V	(260–291)	41.2	275	HSA	[1981CHI/HYM]
	V		40.3 ± 0.2	298	C	[1977MAN/SEL]
	V		38.0	298		[1971WIL/ZWO]
	V	(317–395)	38.8	332	A, MM	[1987STE/MAL, 1950FOR/CAM]
C_8H_{16}	[7642-04-8]	*cis*-2-octene				
	V		40.2	298		[1971WIL/ZWO]
	V	(356–400)	37.8	371	A	[1987STE/MAL, 1983ELV/KUU]
C_8H_{16}	[13389-42-9]	*trans*-2-octene				
	V	(356–399)	37.9	371	A	[1987STE/MAL, 1983ELV/KUU]
	V		40.2	298		[1971WIL/ZWO]
C_8H_{16}	[14850-22-7]	*cis*-3-octene				
	V		37.3	298		[1983ELV/KUU]
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[14919-01-8]	*trans*-3-octene				
	V	(354–396)	37.6	369	A	[1987STE/MAL, 1983ELV/KUU]
	V		40.2	298		[1971WIL/ZWO]
C_8H_{16}	[7642-15-1]	*cis*-4-octene				
	V	(353–395)	37.2	368	A	[1987STE/MAL, 1983ELV/KUU]
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[14850-23-8]	*trans*-4-octene				
	V	(276–308)	43.2 ± 0.3	292	GS	[2000VER/WAN]
	V	(276–308)	42.9 ± 0.3	298	GS	[2000VER/WAN]
	V	(353–396)	37.4	368	A	[1987STE/MAL, 1983ELV/KUU]
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[15870-10-7]	2-methyl-1-heptene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[4810-09-7]	3-methyl-1-heptene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[13151-05-8]	4-methyl-1-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[13151-04-7]	5-methyl-1-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[5026-76-6]	6-methyl-1-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[627-97-4]	2-methyl-2-heptene				
	V		39.7	298		[1971WIL/ZWO]
	V	(257–396)	41.2	272	A	[1987STE/MAL, 1947STU]
C_8H_{16}	[22768-19-0]	3-methyl-*cis*-2-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[22768-20-3]	3-methyl-*trans*-2-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[66225-16-9]	4-methyl-*cis*-2-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-17-0]	4-methyl-*trans*-2-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[24608-84-2]	5-methyl-*cis*-2-heptene				
	V		39.3	298		[1971WIL/ZWO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[24608-85-3]	5-methyl-*trans*-2-heptene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[66225-18-1]	6-methyl-*cis*-2-heptene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[51065-65-7]	6-methyl-*trans*-2-heptene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[20488-34-0]	2-methyl-*cis*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[692-96-6]	2-methyl-*trans*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[22768-17-8]	3-methyl-*cis*-3-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[22768-18-9]	3-methyl-*trans*-3-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[14255-24-4]	4-methyl-*cis*-3-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[13714-85-7]	4-methyl-*trans*-3-heptene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[50422-80-5]	5-methyl-*cis*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[53510-18-2]	5-methyl-*trans*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-19-2]	6-methyl-*cis*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-20-5]	6-methyl-*trans*-3-heptene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[1632-16-2]	2-ethyl-1-hexene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[3404-58-8]	3-ethyl-1-hexene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[16746-85-3]	4-ethyl-1-hexene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[16746-86-4]	2,3-dimethyl-1-hexene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[16746-87-5]	2,4-dimethyl-1-hexene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[6975-92-4]	2,5-dimethyl-1-hexene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[3404-77-1]	3,3-dimethyl-1-hexene				
	V		36.0	298		[1971WIL/ZWO]
C_8H_{16}	[16745-94-1]	3,4-dimethyl-1-hexene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[7423-69-0]	3,5-dimethyl-1-hexene				
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[1647-08-1]	4,4-dimethyl-1-hexene				
	V		31.0	298		[1971WIL/ZWO]
C_8H_{16}	[16106-59-5]	4,5-dimethyl-1-hexene				
	V		38.5	298		[1971WIL/ZWO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[7116-86-1] 5,5-dimethyl-1-hexene					
	V		37.7	298		[1971WIL/ZWO]
C_8H_{16}	[36880-72-5] 3-ethyl-*cis*-2-hexene					
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[19781-63-6] 3-ethyl-*trans*-2-hexene					
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[54616-49-8] 4-ethyl-*cis*-2-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[19781-63-6] 4-ethyl-*trans*-2-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[7145-20-2] 2,3-dimethyl-2-hexene					
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[14255-23-3] 2,4-dimethyl-2-hexene					
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[3404-78-2] 2,5-dimethyl-2-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[19550-81-3] 3,4-dimethyl-*cis*-2-hexene					
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[19550-82-4] 3,4-dimethyl-*trans*-2-hexene					
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[66225-31-8] 3,5-dimethyl-*cis*-2-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-12-5] 3,5-dimethyl-*trans*-2-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-13-6] 4,4-dimethyl-*cis*-2-hexene					
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[19550-83-5] 4,4-dimethyl-*trans*-2-hexene					
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	4,5-dimethyl-*cis*-2-hexene					
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[66225-14-7] 4,5-dimethyl-*trans*-2-hexene					
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[39761-61-0] 5,5-dimethyl-*cis*-2-hexene					
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[39782-43-9] 5,5-dimethyl-*trans*-2-hexene					
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[16789-51-8] 3-ethyl-3-hexene					
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[690-92-6] *cis*-2,2-dimethyl-3-hexene					
	V	(319–380)	35.3	334	A	[1987STE/MAL]
	V		37.2	298		[1971WIL/ZWO]
	V	(305–379)	36.1	320	MM	[1960CAM/ROS]
C_8H_{16}	[690-93-7] *trans*-2,2-dimethyl-3-hexene					
	V	(306–379)	36.1	321	A	[1987STE/MAL]
	V		37.2	298		[1971WIL/ZWO]
	V	(303–374)	36.3	318	MM	[1960CAM/ROS]
C_8H_{16}	[59643-75-3] *cis*-2,3-dimethyl-3-hexene					
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[66225-30-7] *trans*-2,3-dimethyl-3-hexene					
	V		38.9	298		[1971WIL/ZWO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[37549-89-6]	*cis*-2,4-dimethyl-3-hexene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[61847-78-7]	*trans*-2,4-dimethyl-3-hexene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[10557-44-5]	*cis*-2,5-dimethyl-3-hexene				
	V		37.2	298		[1971WIL/ZWO]
C_8H_{16}	[692-70-6]	*trans*-2,5-dimethyl-3-hexene				
	V		37.5	298		[1971WIL/ZWO]
C_8H_{16}	[19550-87-9]	*cis*-3,4-dimethyl-3-hexene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[19550-88-0]	*trans*-3,4-dimethyl-3-hexene				
	V		39.7	298		[1971WIL/ZWO]
C_8H_{16}	[15918-08-8]	2-propyl-1-pentene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[61847-79-8]	2-isopropyl-1-pentene				
	V		38.8	298		[1971WIL/ZWO]
C_8H_{16}	[3404-67-9]	2-ethyl-3-methyl-1-pentene				
	V	(307–389)	36.4	322	A	[1987STE/MAL]
	V		38.9	298		[1971WIL/ZWO]
	V	(308–383)	36.4	323	MM	[1960CAM/ROS]
C_8H_{16}	[3404-80-6]	2-ethyl-4-methyl-1-pentene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[19780-66-6]	3-ethyl-2-methyl-1-pentene				
	V		37.7	298		[1971WIL/ZWO]
C_8H_{16}	[6196-60-7]	3-ethyl-3-methyl-1-pentene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[61847-80-1]	3-ethyl-4-methyl-1-pentene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[560-23-6]	2,3,3-trimethyl-1-pentene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[565-76-4]	2,3,4-trimethyl-1-pentene				
	V		38.5	298		[1971WIL/ZWO]
C_8H_{16}	[107-39-1]	2,4,4-trimethyl-1-pentene				
	FUS		8.79	178.9		[1996DOM/HEA, 1936PAR/TOD2]
[Note: The authors give enthalpy of fusion data for two isomers of diisobutylene. It is speculated in the manuscript that the low boiling point isomer is 2,2,4-trimethyl-1-pentene; whereas the high boiling point isomer is believed to be 2,2,4-trimethyl-2-pentene. The value above is for the low boiling isomer.]						
	V	(306–356)	35.7	298	EB	[2007MAL]
	V	(343–381)	33.5	358	A	[1987STE/MAL]
	V		35.7	298		[1971WIL/ZWO]
	V	(301–375)	35.1	316	MM	[1960CAM/ROS]
C_8H_{16}	[564-03-4]	3,3,4-trimethyl-1-pentene				
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[19780-67-7]	2-methyl-3-ethyl-2-pentene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[42067-48-1]	4-methyl-3-ethyl-*cis*-2-pentene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[42067-49-2]	4-methyl-3-ethyl-*trans*-2-pentene				
	V		38.9	298		[1971WIL/ZWO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{16}	[565-77-5]	2,3,4-trimethyl-2-pentene				
	V		39.3	298		[1971WIL/ZWO]
C_8H_{16}	[107-40-4]	2,4,4-trimethyl-2-pentene				
	FUS		6.78	166		[1996DOM/HEA, 1936PAR/TOD2]
[Note: The authors give enthalpy of fusion data for two isomers of diisobutylene. It is speculated in the manuscript that the low boiling point isomer is 2,2,4-trimethyl-1-pentene; whereas the high boiling point isomer is believed to be 2,2,4-trimethyl-2-pentene. The value above is for the high boiling isomer.]						
	V	(319–380)	35.7	334	A	[1987STE/MAL]
	V		39.3	298		[1971WIL/ZWO]
	V	(305–378)	37.2	320	MM	[1960CAM/ROS]
C_8H_{16}	[39761-64-3]	3,4,4-trimethyl-*cis*-2-pentene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[39761-57-4]	3,4,4-trimethyl-*trans*-2-pentene				
	V		38.9	298		[1971WIL/ZWO]
C_8H_{16}	[111823-35-9]	3-methyl-2-isopropyl-1-butene				
	V		38.1	298		[1971WIL/ZWO]
C_8H_{16}	[18231-53-3]	3,3-dimethyl-2-ethyl-1-butene				
	V		38.5	298		[1971WIL/ZWO]
$C_8H_{16}Br_2$	[62168-26-7]	1,1-dibromooctane				
	V	(412–571)	57.1	427	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_{16}Cl_2$	[20395-24-8]	1,1-dichlorooctane				
	V	(380–480)	57.7	298	A	[1987VAR/LOS2, 1991BAS/SVO]
	V	(382–533)	51.4	397	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_{16}Cl_2$	[21948-46-9]	1,2-dichlorooctane				
	V	(370–490)	52.0	385		[1982VAR/PUC, 1999DYK/SVO]
	V	(370–490)	57.6	298		[1982VAR/PUC, 1992LEE/CHE]
$C_8H_{16}Cl_2$	[2162-99-4]	1,8-dichlorooctane				
	V	(410–510)	55.9	426		[1999DYK/SVO]
	V	(410–510)	65.6	298		[1988VAR/LOS, 1991BAS/SVO]
$C_8H_{16}Cl_2$	[2162-99-4]	erythro-4,5-dichlorooctane				
	V	(351–480)	47.3	415		[1999DYK/SVO]
$C_8H_{16}F_2$	[61350-03-6]	1,1-difluorooctane				
	V	(329–459)	44.2	344	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_8H_{17}NO_2$		ethyl 2-(*N*, *N*–dimethylamino)-2-methylpropanoate				
	V	(278–313)	51.6 ± 0.5	298	GS	[1996VER/ZUF]
$C_8H_{16}N_2$	[5921-54-0]	methyl ethyl ketazine				
	V	(439–524)	40.0			[1993FER/MOR]
$C_8H_{16}N_2$	[19403-24-8]	1,1,4,4-tetramethyltetramethylenediazine				
	V		50.1 ± 0.4	298	C	[1976ENG/MEL]
$C_8H_{16}N_2$	[35672-46-9]	2-diethylamino-2-methylpropionitrile				
	V		56.3 ± 1.1		GS	[1997WEL/VER]
$C_8H_{16}N_2O_2$	[1999-46-8]	DL-α-alanyl-DL-α-valine				
	SUB	(408–493)	160 ± 5		ME, MS	[2012BAD/TYU]
$C_8H_{16}N_2O_2$	[28529-34-2]	*N*-acetyl (L)-leucine amide				
	SUB		115.6 ± 1.4	376	C	[1999DEL/BAR]
	SUB		119.8 ± 1.5	298	C	[1999DEL/BAR]
$C_8H_{16}N_2O_2$	[16624-68-3]	*N*-acetyl (D)-leucine amide				
	FUS		20.2	404	DSC	[1996DOM/HEA, 1988FER/DEL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		114.8 ± 0.3	393	C	[1999DEL/BAR]
	SUB		120.4 ± 0.4	298	C	[1999DEL/BAR]
	SUB	(374–401)	101 ± 3	388	TE	[1988FER/DEL, 1986BAR/FER]
$C_8H_{16}N_2O_2$	[56711-06-9]	*N*-acetyl (L)-isoleucine amide				
	FUS		41.8	529.6	DSC	[1997PUL/DES]
	SUB		142.7 ± 0.2	390	C	[1999DEL/BAR]
	SUB		147.4 ± 0.3	298	C	[1999DEL/BAR]
$C_8H_{16}N_2O_2$	[19701-84-9]	*N*-acetyl-L-valine-*N*′-methylamide				
	FUS		34.07	531.3	DSC	[2014BAD/DEL]
$C_8H_{16}N_2O_2$	[113830-74-3]	*N*-acetyl-DL-valine-*N*′-methylamide				
	FUS		37.23	496.7	DSC	[2014BAD/DEL]
$C_8H_{16}N_2O_2$	[33067-46-8]	*N*-acetyl-DL-norvaline-*N*′-methylamide				
	FUS		26.24	432.2	DSC	[2014BAD/DEL]
$C_8H_{16}N_2O_2$	[3891-73-4]	suberamide				
	TRS		5.45	431.3		
	FUS		58.4	493.2	DSC	[2006BAD/DEL]
$C_8H_{16}N_6$	[16268-62-5]	1-(methylamino)-3,5-bis(dimethylamino)-*s*-triazine				
	FUS		22.34	378.8	DSC	[1989BRA/RYT]
$C_8H_{16}N_6O$	[64124-14-7]	1-(hydroxylamino)-3,5-bis(dimethylamino)-*s*-triazine				
	FUS		30.67	381.5	DSC	[1989BRA/RYT]
$C_8H_{16}O$	[124-13-0]	octanal				
	FUS	(50–350)	25.86	288.2	AC	[1980DYA/VAS]
	V	(277–310)	51.0 ± 0.3	298	GS	[2003VER/KRA2]
	V	(313–353)	53.8	298	CGC	[1995CHI/HOS]
	V	(293–438)	43.4	308	A	[1987STE/MAL]
	V		51.3 ± 0.2	298		[1981DYA/KOR]
$C_8H_{16}O$	[18641-70-8]	2,4-dimethyl-3-hexanone				
	V	(350–418)	42.5	365	A	[1987STE/MAL]
$C_8H_{16}O$	[696-71-9]	cyclooctanol				
	TRS		2.12	263.6		
	FUS		1.91	296.8	DSC	[2014RUZ/FUL]
	FUS		2.02	291.2	DSC	[2008SIN/MUR]
	TRS		2.05	264.1		
	FUS		1.97	297.1	DSC	[2003RUT/SAL]
	TRS		2.12	261.3		
	FUS		2.06	295		[1995SCI/MAY]
[Note: The authors did not report enthalpic data for all transitions.]						
	TRS		2.67	264.0		
	FUS		1.91	297.5	DTA	[1987EDE/WUR]
	TRS		1.69	246.5		
	FUS		1.79	283.8	DSC	[1982DWO/FUC]
$C_8H_{16}O$	[1940-18-7]	1-ethylcyclohexanol				
	V	(324–440)	46.9	339	A	[1987STE/MAL]
$C_8H_{16}O$	[13019-20-0]	2-methyl-3-heptanone				
	V	(350–428)	43.5	365	A	[1987STE/MAL]
$C_8H_{16}O$	[51500-48-2]	6-methyl-3-hepten-2-ol				
	V	(314–449)	59.7	329	A	[1987STE/MAL, 1947STU]
$C_8H_{16}O$	[4630-06-2]	(*dl*)-6-methyl-5-hepten-2-ol				
	V	(314–448)	57	329	A	[1987STE/MAL, 1947STU]
$C_8H_{16}O$	[111-13-7]	2-octanone				
	FUS		24.42	252.9		[1996DOM/HEA, 1965OET]
	V	(343–383)	52.6	298	CGC	[1995CHI/HOS]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(317–446)	49.8	332	A	[1987STE/MAL]
	V		52.0 ± 0.3	298	GCC	[1979SAL/PEA]
	V	(324–520)	49.1	339	A	[1987STE/MAL, 1975AMB/ELL]
	V	(324–520)	51.8	298		[1975AMB/ELL]
	V	(296–446)	50.6	311		[1947STU]
$C_8H_{16}O$	[106-68-3]	3-octanone				
	V	(293–348)	43.8	308	A	[1987STE/MAL]
$C_8H_{16}O$	[589-63-9]	4-octanone				
	V	(288–433)	36.4	303	A	[1987STE/MAL]
$C_8H_{16}O$	[1604-02-0]	1-propylcyclopentanol				
	V	(344–447)	64.2	359	A	[1987STE/MAL, 1944MCL/EDW]
$C_8H_{16}O$	[5857-36-3]	2,2,4-trimethyl-3-pentanone				
	V	(287–408)	55.7	302	A	[1987STE/MAL, 1947STU]
	V		43.3 ± 0.2	298	C	[1970SEL2]
	V		43.3 ± 0.1	298	C	[1966WAD]
$C_8H_{16}O_2$	[859810-98-3]	2-butoxy-3-butanone				
	V	(323–398)	36.7	338	A	[1987STE/MAL]
	V	(323–398)	37.8	360	I	[1933HEN/MUR]
$C_8H_{16}O_2$	[20268-00-2]	*trans*-2,2,4,6-tetramethyl-1,3-dioxane				
	V		41.9 ± 1.2	298		[1967PIH/HEI]
$C_8H_{16}O_2$	[17227-17-7]	*cis*-2,2,4,6-tetramethyl-1,3-dioxane				
	V		42.3 ± 1.2	298		[1967PIH/HEI]
$C_8H_{16}O_2$	[56444-60-1]	2,2,6,6-tetramethyl-1,3-dioxane				
	FUS		10.9	250.6		[1975BOR]
$C_8H_{16}O_2$	[933-40-4]	1,1-dimethoxycyclohexane				
	V	(278–308)	48.6 ± 0.2	298	GS	[2002VER]
	V	(278–308)	49.0 ± 0.2		GS	[1998VER/PEN]
	V	(315–347)	52.4	331	EB	[1994WIB/MOR]
$C_8H_{16}O_2$	[124-07-2]	octanoic acid (caprylic acid)				
	FUS		21.4	289.7	DSC	[2014CAR/CAS]
	FUS		22.34	289.6	DSC	[2009COS/SAR]
	FUS		20.8	289.3	DSC	[2004INO/HIS2]
	FUS	(155–300)	21.35	289.7	AC	[1996DOM/HEA, 1982SCH/VAN]
	FUS		21.38	289.5		[1996DOM/HEA, 1924GAR/RAN]
	SUB		113.3 ± 6	298	TPD	[2008CAP/LOV]
	V	(297–343)	79.8 ± 0.6	320	GS	[2000VER2]
	V	(297–434)	81.0 ± 0.6	298	GS	[2000VER2]
	V	(353–393)	81.2	298	CGC	[1995CHI/HOS]
	V	(417–514)	66.6	432	A, EB	[1987AMB/GHI3]
	V	(296–331)	85.3	311	A	[1987STE/MAL]
	V	(360–512)	74.4	375	A	[1987STE/MAL]
	V		80.0	290		[1982DEK/SCH]
	V	(291–303)	82.9 ± 1.0	298	TE	[1979DEK/OON]
	V		70.0	407	I	[1943CRA]
$C_8H_{16}O_2$	[99-66-1]	valproic acid				
	V		74.8 ± 2.4	298	CGC	[2012WIL/CHI]
$C_8H_{16}O_2$	[112-23-2]	heptyl formate				
	V	(276–316)	54.2	296	GS	[2012SAM/NAZ]
	V	(276–316)	53.8 ± 0.2	298	GS	[2012SAM/NAZ]
$C_8H_{16}O_2$	[123-66-0]	ethyl hexanoate				
	V		51.5 ± 1.3	298	CGC	[2015KOZ/GOB]
	V	(254–462)	53.3	298	Static	[2013BEN/KHI2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(408–440)	43.1	423	EB	[2011MAT/YAM]
	V	(253–462)	49.5 ± 0.5	358	Static	[2011BEN/KHI]
	V	(253–462)	54.1 ± 0.5	298	Static	[2011BEN/KHI]
	V	(279–309)	50.8 ± 0.4	294	GS	[1999VER/HEI]
	V	(279–309)	50.6 ± 0.4	298	GS	[1999VER/HEI]
	V	(345–374)	47.4 ± 0.3	359	EB	[1991WIB/WAL]
	V	(345–379)	51.5 ± 1.3	298	EB	[1991WIB/WAL]
	V	(396–449)	51.8	311	A	[1987STE/MAL]
	V	(300–376)	48.6	315	A	[1987STE/MAL]
	V		51.7 ± 0.1	298	C	[1986NIL/WAD]
$C_8H_{16}O_2$	[149-57-5]	(*dl*)-2-ethylhexanoic acid				
	V	(397–514)	67.0 ± 0.6	400	EB	[1997STE/CHI3]
	V	(397–514)	64.8 ± 0.6	420	EB	[1997STE/CHI3]
	V	(397–514)	59.9 ± 0.5	460	EB	[1997STE/CHI3]
	V	(397–514)	54.2 ± 0.7	500	EB	[1997STE/CHI3]
	V	(397–514)	76.3 ± 0.9	298	EB	[1997STE/CHI3]
	V	(403–500)	61.8	418	A	[1987STE/MAL]
	V		75.6 ± 0.5	298	C	[1976STR]
$C_8H_{16}O_2$	[142-92-7]	hexyl acetate				
	FUS		19.83	212.1		[1996DOM/HEA, 1984VAS/PET]
	V	(274–309)	51.9 ± 0.3	298	GS	[2006KRA/VER]
	V		52.1	298	GC	[1997KOU/HOS]
	V	(303–444)	50.9	318		[1995ARC/BLA]
	V	(304–381)	48.9	319	A	[1987STE/MAL]
	V	(378–459)	46.2	387	DTA	[1980MEY/AWE]
$C_8H_{16}O_2$	[109-21-7]	butyl butanoate				
	FUS		14.93	181.7		[1996DOM/HEA, 1984VAS/PET]
	V	(400–460)	41.8	420		[2005ORT/ESP]
	V	(400–450)	42.2	425	EB	[1995GON/ORT]
$C_8H_{16}O_2$	[539-90-2]	isobutyl butyrate				
	V	(277–430)	41.7	292	A	[1987STE/MAL, 1947STU]
$C_8H_{16}O_2$	[97-85-8]	isobutyl isobutyrate				
	V	(274–319)	48.5	298	GS	[2008VER/EME]
	V	(278–313)	44.5 ± 0.1	298	GS	[1996VER/BEC]
	V	(277–421)	46.9	292	A	[1987STE/MAL, 1947STU]
$C_8H_{16}O_2$	[105-68-0]	isopentyl propionate				
	V	(281–434)	44.1	296	A	[1987STE/MAL]
$C_8H_{16}O_2$	[624-54-4]	pentyl propanoate				
	V	(274–328)	52.1	301	GS	[2012SAM/NAZ]
	V	(274–328)	52.2 ± 0.1	298	GS	[2012SAM/NAZ]
$C_8H_{16}O_2$	[106-73-0]	methyl heptanoate				
	V	(421–444)	46.3	433		[2009POS/MAR]
	V	(278–310)	53.2 ± 0.2	298	GS	[2008VER/EME]
	V		49.1	350		[2002VAN/VAN]
	V		50.2 ± 0.1	326		[2002VAN/VAN]
	V		51.8 ± 0.1	298		[2002VAN/VAN]
	V	(313–363)	53.4	298	CGC	[1995CHI/HOS]
	V	(433–473)	53.7	298	CGC	[1995CHI/HOS]
	V	(313–353)	53.5	298	CGC	[1995CHI/HOS]
	V		49.7 ± 0.5	298	GC	[1987AZA]
	V		53.1 ± 0.4	298	GCC	[1980FUC/PEA]
	V		53.1 ± 0.1	298	C	[1980FUC/PEA]
	V		51.6 ± 0.5	298	C	[1977MAN/SEL]
	V	(332–402)	49.0	347	A, EST	[1987STE/MAL, 1963ROS/SCH]
$C_8H_{16}O_2$	[25415-67-2]	4-methylvaleric acid, ethyl ester				
	V	(284–434)	45.4	299	A	[1987STE/MAL, 1947STU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{16}O_2$	[557-00-6]	propyl isovalerate				
	V	(281–429)	44.3	296	A	[1987STE/MAL, 1947STU]
$C_8H_{16}O_2$	[34949-22-9]	*tert*-pentyl propionate				
	V	(274–310)	45.3 ± 0.1	298	GS	[2008VER/EME]
	V	(333–378)	45.7	298	CGC	[1999VER/HEI]
$C_8H_{16}O_2$	[34859-98-8]	1,1-dimethylbutyl acetate				
	V	(333–378)	45.6	298	CGC	[1999VER/HEI]
$C_8H_{16}O_2$	[15965-97-6]	[(3–methylbutoxy)methyl]oxirane				
	V		55.8 ± 1.9			[1987VAN/KAC]
$C_8H_{16}O_2$	[39255-32-8]	(*dl*)-ethyl 2-methylpentanoate				
	V		48.4 ± 1.5	298	CGC	[2015KOZ/GOB]
$C_8H_{16}O_3$	[131265-01-5]	2-butoxypropionic acid, methyl ester				
	V	(348–417)	51.9	363	A, I	[1987STE/MAL, 1933HEN/MUR]
$C_8H_{16}O_3$	[4126-55-0]	3-butoxypropionic acid, methyl ester				
	V	(311–469)	51.1	326	A	[1987STE/MAL]
$C_8H_{16}O_3$	[14144-34-4]	3-ethoxypropionic acid, propyl ester				
	V	(343–461)	48.6	358	A	[1987STE/MAL, 1948DIX/REH]
$C_8H_{16}O_3$	[112-07-2]	ethylene glycol monobutyl ether acetate				
	V	(293–465)	51.9	308	A	[1987STE/MAL]
	V		59.5 ± 0.1	298	C	[1970KUS/WAD]
$C_8H_{16}O_3$	[816-50-2]	2-hydroxyisobutyric acid, butyl ester				
	V	(384–458)	47.7	399	A	[1987STE/MAL, 1954FRI/PIC]
$C_8H_{16}O_3$	[4195-88-4]	3-methoxypropionic acid, butyl ester				
	V	(311–469)	50.9	326	A	[1987STE/MAL]
$C_8H_{16}O_3$	[6382-06-5]	pentyl lactate				
	V	(288–469)	73.9	303	A	[1987STE/MAL, 1950REH/DIX]
$C_8H_{16}O_3$	[112-15-2]	diethylene glycol monoethyl ether acetate				
	V	(293–491)	51.7	308	A	[1987STE/MAL]
$C_8H_{16}O_3$	[2305-25-1]	ethyl 3-hydroxyhexanoate				
	V	(363–393)	61.9 ± 0.6	298	CGC	[2005TEM/CHI]
$C_8H_{16}O_4$	[294-93-9]	1,4,7,10-tetraoxacyclododecane (12-crown-4)				
	FUS		22.46	290.7		[1998DOM]
	V		65.7 ± 3.7	298	CGC	[2000NIC/ORF]
	V		65.6 ± 0.4	298	C	[1982BYS/MAN]
$C_8H_{16}O_4$	[2780-59-8]	3,6-diethyl-3,6-dimethyl-1,2,4,5-tetraoxacyclohexane				
	V	(403–473)	45.09	298	CGC	[2007CAN/EYL]
$C_8H_{16}S_4$	[25423-56-7]	1,4,7,10-tetrathiacyclododecane				
	FUS		31.0	499.2	DSC	[2002ROC/GRI]
$C_8H_{17}Br$	[111-83-1]	1-bromooctane				
	FUS		24.69	218.2		[1950CRO/SMY]
	V	(323–363)	55.1	298	CGC	[1995CHI/HOS]
	V		55.8 ± 0.1	298	C	[1976STR3, 1977MAN/SEL]
	V	(373–475)	49.3	388	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN]
$C_8H_{17}Br$	[557-35-7]	(*dl*)-2-bromooctane				
	V	(343–463)	48.4	358	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{17}Cl$	[111-85-3]	1-chlorooctane				
	V	(330–460)	51.4	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(327–457)	50.3	342	A, DTA	[1987STE/MAL, 1969KEM/KRE]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		52.4 ± 0.1	298	C	[1968WAD]
$C_8H_{17}Cl$	[628-61-5]	(*dl*)-2-chlorooctane				
	V	(330–446)	47.8	345	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{17}Cl$	[123-04-6]	(3-chloromethyl)heptane				
	V	(371–445)	43.2	386	RS	[2013HUA/LV]
	V	(371–443)	44.2	386	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{17}ClO_4$	[5197-66-0]	triethylene glycol mono(2-chloroethyl) ether				
	V	(383–555)	68.6	398	A	[1987STE/MAL, 1947STU]
$C_8H_{17}Cl_2N$	[42520-97-8]	*N*-butyl bis(2-chloroethyl)amine				
	V	(273–380)	60.7	288	A,GS	[1987STE/MAL, 1948RED/CHA3, 1999DYK/SVO]
$C_8H_{17}Cl_2N$		*N*-*sec*-butyl bis(2-chloromethyl)amine				
	V	(273–373)	59.5	288	GS	[1987STE/MAL, 1948RED/CHA3, 1999DYK/SVO]
$C_8H_{17}Cl_2N$	[10125-86-7]	*N*-*tert*-butyl bis(2-chloromethyl)amine				
	V	(273–345)	58.4	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1999DYK/SVO]
$C_8H_{17}Cl_2N$	[87289-70-1]	*N*-isobutyl bis(2-chloromethylamine				
	V	(273–345)	60.3	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1999DYK/SVO]
$C_8H_{17}F$	[463-11-6]	1-fluorooctane				
	V		49.7	298		[UR/FUC, 1985MAJ/SVO]
	V	(307–446)	44.1	322	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN]
$C_8H_{17}I$	[629-27-6]	1-iodooctane				
	V	(391–554)	59.7	298	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN, 2006BOL/NER]
	V	(391–554)	50.7	406	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN]
$C_8H_{17}N$	[98-94-2]	*N*, *N*-dimethylcyclohexylamine				
	V	(275–314)	46.0 ± 0.2	295	GS	[2015EME/VER3]
	V	(275–314)	45.6 ± 0.3	298	GS	[2015EME/VER3]
$C_8H_{17}N$	[5470-02-0]	*N*-propylpiperidine				
	V	(275–314)	45.2 ± 0.4	294	GS	[1998VER6]
	V	(275–314)	44.9 ± 0.4	298	GS	[1998VER6]
$C_8H_{17}NO$	[629-01-6]	octanamide				
	TRS		1.91	194.4		
	TRS		0.97	304.5		
	FUS		27.6	377	DSC	[2008ABA/BAD]
	FUS		24.3	374.9	DSC	[1975BER/CIN]
	SUB	(325–374)	110.5 ± 2.9		GS,ME	[1959DAV/JON2, 1987STE/MAL]
$C_8H_{17}NO$	[2430-27-5]	2-propylpentamide (valpromide)				
	TRS		1.75	360.6		
	FUS		22.5	398.2	DSC	[2013GUT/RAT]
	SUB		102.2 ± 3.1	298	V + F	[2013GUT/RAT]
	V		83.6 ± 2.5	298	CGC	[2013GUT/RAT]
$C_8H_{17}NO$	[1114-76-7]	butyric acid *N*, *N*-diethylamide				
	V	(298–373)	38.7	313	A	[1987STE/MAL, 1968DAV/BAT]
$C_8H_{17}NO$	[929-55-5]	caprylaldehyde oxime				
	V	(313–400)	71.3	328	A	[1987STE/MAL, 1962GEI/QUI3]
$C_8H_{17}NO$	[7207-49-0]	2-octanone oxime				
	V	(293–487)	67.5	308	A	[1987STE/MAL, 1962GEI/QUI3]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{17}NO$	[7207-50-3]	3-octanone oxime				
	V	(293–400)	67.2	308	A	[1987STE/MAL, 1962GEI/QUI3]
$C_8H_{17}NO$	[7207-51-4]	4-octanone oxime				
	V	(293–400)	68.8	308	A	[1987STE/MAL, 1962GEI/QUI3]
$C_8H_{17}NO_2$	[5342-78-9]	2,4,4-trimethyl-2-nitropentane				
	V	(288–324)	54.2 ± 0.8	306	GS	[1997VER3]
	V	(288–324)	54.7 ± 0.8	298	GS	[1997VER3]
$C_8H_{17}NO_2$	[5395-35-7]	lactic acid *N*-isopentylamide				
	V	(386–433)	77.9	401	A	[1987STE/MAL, 1950RAT/FIS]
$C_8H_{17}NO_2$	[5323-54-6]	lactic acid *N*-pentylamide				
	V	(373–448)	81.8	388	A	[1987STE/MAL, 1950RAT]
$C_8H_{17}NO_2$	[2743-60-4]	(*l*) leucine ethyl ester				
	V	(333–449)	43.5	348	A	[1987STE/MAL]
$C_8H_{17}NO_2$		ethyl 2-(*N*, *N*-dimethylamino)-2-methylpropionate				
	V		55.6 ± 0.4	283	DSC	[1993SCH/BEC]
$C_8H_{17}NO_2$	[7214-62-2]	(1-methylheptyl)nitrite				
	V	(303–338)	44.9	318	A	[1987STE/MAL]
$C_8H_{17}NO_2$	[1002-57-9]	8-aminooctanoic acid				
	SUB	(391–402)	166.2 ± 0.9	397	C	[1983SKO/SAB]
	SUB		170 ± 4	298	C	[1983SKO/SAB]
$C_8H_{17}NO_4$	[72458-42-5]	*N*-ethyl-5-amino-1,5-dideoxy-(D)-glycopyranose				
	FUS		26.3	429.1	DSC	[1994BLU/PRA]
$C_8H_{17}N_3$	[7438-05-3]	1-octylazide				
	V	(276–326)	58.9 ± 0.3	298	GS	[2014EME/ALG]
C_8H_{18}	[590-73-8]	2,2-dimethylhexane				
	V		37.3	298		[1971WIL/ZWO]
	V	(243–380)	39.7	258		[1947STU]
	V		37.3 ± 0.1	298	C	[1947OSB/GIN]
	V	(302–381)	36.6	317	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[584-94-1]	2,3-dimethylhexane				
	V		38.8	298		[1971WIL/ZWO]
	V	(250–388)	41.4	265		[1947STU]
	V		38.8 ± 0.1	298	C	[1947OSB/GIN]
	V	(310–390)	37.6	325	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[589-43-5]	2,4-dimethylhexane				
	V		37.8	298		[1971WIL/ZWO]
	V	(246–382)	41	261		[1947STU]
	V		37.8 ± 0.1	298	C	[1947OSB/GIN]
	V	(305–385)	36.9	320	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[592-13-2]	2,5-dimethylhexane				
	V		37.9	298		[1971WIL/ZWO]
	V	(246–382)	41.1	261		[1947STU]
	V		37.9 ± 0.1	298	C	[1947OSB/GIN]
	V	(307–383)	36.9	322	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[563-16-6]	3,3-dimethylhexane				
	V	(247–385)	41.2	262		[1947STU]
	V		37.5 ± 0.1	298	C	[1947OSB/GIN]
	V	(308–386)	36.6	323	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[583-48-2]	3,4-dimethylhexane				
	V	(251–390)	41.3	266		[1947STU]
	V		39.0 ± 0.1	298	C	[1947OSB/GIN]
	V	(313–392)	37.7	328	A, MM	[1987STE/MAL, 1945WIL/TAY]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_8H_{18}	[619-99-8]	3-ethylhexane				
	V		39.7	298		[1971WIL/ZWO]
	V	(251–391)	42.4	268		[1947STU]
	V		39.6 ± 0.1	298	C	[1947OSB/GIN]
	V	(314–393)	38.2	329	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[609-26-7]	3-ethyl-2-methylpentane				
	V		38.5	298		[1971WIL/ZWO]
	V		38.5 ± 0.1	298	C	[1947OSB/GIN]
	V	(311–390)	37.4	326	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[1067-08-9]	3-ethyl-3-methylpentane				
	V		38.0	298		[1971WIL/ZWO]
	V	(249–391)	40.2	264		[1947STU]
	V		38.0 ± 0.1	298	C	[1947OSB/GIN]
	V	(312–393)	36.9	327	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[592-27-8]	2-methylheptane				
	FUS		11.92	164.2		[1996DOM/HEA, 1971MES/FIN]
	V	(285–392)	39.8	300	A	[1987STE/MAL]
	V		39.7 ± 0.1	298	C	[1979MAJ/SVO]
	V		38.7 ± 0.1	313	C	[1979MAJ/SVO]
	V		37.3 ± 0.1	333	C	[1979MAJ/SVO]
	V		36.0 ± 0.1	353	C	[1979MAJ/SVO]
	V	(233–283)	41.6	268	IPM	[1987STE/MAL, 1974OSB/DOU]
	V		39.7	298		[1971WIL/ZWO]
	V		39.8 ± 0.1	298	C	[1947OSB/GIN]
	V	(315–391)	38.1	330	MM	[1945WIL/TAY]
C_8H_{18}	[589-81-1]	3-methylheptane				
	FUS		11.67	152.6		[1996DOM/HEA, 1973FIN/MES]
	V		39.8 ± 0.2	298	C	[1987AN/HU]
	V	(286–393)	40.1	301	A	[1987STE/MAL]
	V	(238–286)	41.6	271	IPM	[1987STE/MAL, 1974OSB/DOU]
	V		39.8	298		[1971WIL/ZWO]
	V		39.8 ± 0.1	298	C	[1947OSB/GIN]
	V	(316–393)	38.3	331	MM	[1945WIL/TAY]
C_8H_{18}	[589-53-7]	4-methylheptane				
	FUS		10.84	152.2		[1991ACR, 1983WEA]
	V		39.7 ± 0.1	298	C	[1979MAJ/SVO]
	V		38.7 ± 0.1	313	C	[1979MAJ/SVO]
	V		37.4 ± 0.1	333	C	[1979MAJ/SVO]
	V		36.1 ± 0.1	353	C	[1979MAJ/SVO]
	V		39.7	298		[1971WIL/ZWO]
	V	(253–391)	42.3	268		[1947STU]
	V		39.7 ± 0.1	298	C	[1947OSB/GIN]
	V	(312–392)	38.2	327	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[111-65-9]	octane				
	FUS		21.8	216.6	DSC	[2004MON/RAJ]
	FUS		20.32	215.8	DSC	[2005HUA/SIM]
	FUS		21.0	216.4	C	[1955TUN/STO]
	FUS		20.74	216.4		[1996DOM/HEA, 1954FIN/GRO2]
	FUS		20.62	215.8	C	[1996DOM/HEA, 1931HUF/PAR]
	FUS		20.09	215.6		[1996DOM/HEA, 1930PAR/HUF]
	SUB		68.1	216	B	[1963BON]
	V	(323–563)	39.4	338	EB	[2003EWI/OCH]
	V		41.6	298		[1994RUZ/MAJ]
	V	(297–400)	41.0	312	A	[1987STE/MAL]
	V	(216–278)	44.4	263	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(396–432)	36.3	411	A	[1987STE/MAL]
	V	(428–510)	35.5	443	A	[1987STE/MAL]
	V	(506–569)	34.9	521	A	[1987STE/MAL]
	V	(295–402)	41.2	310		[1986PAU/KRU]
	V	(298–333)	41.9	313		[1984MIC/JOS]
	V		41.5 ± 0.1	298	C	[1981HOS/SCO2]
	V		41.5 ± 0.1	298	C	[1979MAJ/SVO]
	V		40.5 ± 0.1	313	C	[1979MAJ/SVO]
	V		39.1 ± 0.1	333	C	[1979MAJ/SVO]
	V		37.8 ± 0.1	353	C	[1979MAJ/SVO]
	V	(217–297)	43.0	282		[1973CAR/KOB]
	V		41.5	298		[1971WIL/ZWO]
	V		41.0 ± 0.5	298	C	[1963MOR/SUN]
	V		38.0 ± 0.1	311	C	[1960MCK/SAG]
	V		36.7 ± 0.1	328	C	[1960MCK/SAG]
	V		35.4 ± 0.1	344	C	[1960MCK/SAG]
	V		41.5 ± 0.1	298	C	[1947OSB/GIN]
	V	(326–400)	39.2	341	MM	[1945WIL/TAY]
C_8H_{18}	[560-21-4]	(*dl*)-2,2,3-trimethylpentane				
	V		37.7 ± 0.1	298	C	[1998SVO/HYN]
	V		37.1 ± 0.1	308	C	[1998SVO/HYN]
	V		36.6 ± 0.1	315	C	[1998SVO/HYN]
	V		36.0 ± 0.1	323	C	[1998SVO/HYN]
	V		35.5 ± 0.1	330	C	[1998SVO/HYN]
	V		35.1 ± 0.1	338	C	[1998SVO/HYN]
	V		34.8 ± 0.1	348	C	[1998SVO/HYN]
	V		34.1 ± 0.1	358	C	[1998SVO/HYN]
	V		33.5 ± 0.1	368	C	[1998SVO/HYN]
	V		36.9	298		[1971WIL/ZWO]
	V		36.9 ± 0.1	298	C	[1947OSB/GIN]
	V	(306–384)	36.1	321	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[540-84-1]	2,2,4-trimethylpentane				
	FUS		9.08	165.8	DTA	[1994TAN/SAB3]
	FUS		9.21	165.8		[1940PIT]
	FUS		9.04	165.3		[1996DOM/HEA, 1930PAR/HUF]
	V	(373–423)	34.9	298	CGC	[1995CHI/HOS]
	V	(289–333)	36.1	304		[1991WU/PIV]
	V	(423–523)	31.6	438	A	[1987STE/MAL]
	V	(372–416)	32.2	387	A	[1987STE/MAL]
	V	(413–494)	31.5	428	A	[1987STE/MAL]
	V	(490–544)	31.4	505	A	[1987STE/MAL]
	V		35.2 ± 0.1	298	C	[1982SVO/CHA]
	V		34.4 ± 0.1	313	C	[1982SVO/CHA]
	V		33.4 ± 0.1	328	C	[1982SVO/CHA]
	V		32.6 ± 0.1	343	C	[1982SVO/CHA]
	V		31.7 ± 0.1	358	C	[1982SVO/CHA]
	V		31.0 ± 0.1	368	C	[1982SVO/CHA]
	V		35.1 ± 0.1	298	C	[1979MAJ/SVO]
	V		34.3 ± 0.1	313	C	[1979MAJ/SVO]
	V		33.2 ± 0.1	333	C	[1979MAJ/SVO]
	V		32.0 ± 0.1	353	C	[1979MAJ/SVO]
	V		35.1	298		[1971WIL/ZWO]
	V	(194–299)	40.7	209	A	[1987STE/MAL, 1956MIL]
	V		35.1 ± 0.1	298	C	[1947OSB/GIN]
	V	(297–374)	34.8	312	A, MM	[1987STE/MAL, 1945WIL/TAY]
	V		31.0	371	C	[1940PIT]
	V	(318–399)	33.9	333	EB	[1940SMI]
C_8H_{18}	[560-21-4]	2,3,3-trimethylpentane				
	V		37.6 ± 0.1	298	C	[1998SVO/HYN]
	V		36.9 ± 0.1	308	C	[1998SVO/HYN]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		36.5 ± 0.1	315	C	[1998SVO/HYN]
	V		36.0 ± 0.1	323	C	[1998SVO/HYN]
	V		35.5 ± 0.1	330	C	[1998SVO/HYN]
	V		35.1 ± 0.1	338	C	[1998SVO/HYN]
	V		34.4 ± 0.1	348	C	[1998SVO/HYN]
	V		33.9 ± 0.1	358	C	[1998SVO/HYN]
	V		33.3 ± 0.1	368	C	[1998SVO/HYN]
	V		37.2	298		[1971WIL/ZWO]
	V		36.9 ± 0.1	298	C	[1947OSB/GIN]
	V		37.2 ± 0.1	298	C	[1947OSB/GIN]
	V	(308–390)	36.4	323	A, MM	[1987STE/MAL, 1945WIL/TAY]
C_8H_{18}	[565-75-3]	2,3,4-trimethylpentane				
	FUS		9.27	163.6		[1996DOM/HEA, 1941PIT/SCO]
	V	(288–400)	37.7	303	A	[1987STE/MAL]
	V	(223–289)	39.1	274	A	[1987STE/MAL]
	V		37.7 ± 0.1	298	C	[1981HOS/SCO2]
	V	(223–426)	41.3	238	IPM, EB	[1974OSB/DOU]
	V	(223–278)	39.8	263	IPM	[1974OSB/DOU]
	V		37.7	298		[1971WIL/ZWO]
	V		37.7 ± 0.1	298	C	[1947OSB/GIN]
	V	(310–388)	36.7	325	MM	[1945WIL/TAY]
C_8H_{18}	[594-82-1]	2,2,3,3-tetramethylbutane				
	TRS		2.0	152.5		
	FUS		7.54	373.9		[1996DOM/HEA, 1952SCO/DOU]
	TRS		2.0	153		[1984DOM/EVA]
	FUS		7.12	377.2		[1929PAR/TOD]
	SUB	(286–377)	43.6	301		[1987STE/MAL]
	SUB	(273–338)	43.4 ± 0.2	298		[1952SCO/DOU, 1970COX/PIL]
	SUB		42.9 ± 0.9	298	C	[1947OSB/GIN]
	SUB	(263–279)	56.2		A, MG	[1931LIN]
	V	(377–390)	33.0	383	A	[1987STE/MAL]
$C_8H_{18}N_2$	[2159-75-3]	dibutyldiazene				
	V		49.3 ± 0.2	298	C	[1978ENG/MON]
$C_8H_{18}N_2$	[927-83-3]	di-*tert*-butyldiazene				
	TRS		4.89	242.6		
	FUS		10.28	258.6	DSC	[1980BYS]
	V		39.1 ± 0.3	298	C	[1976ENG/MEL]
	V	(294–305)	39.6	299	UV	[1974ENG/WOO]
	V		32.7		I	[1974ENG/WOO]
$C_8H_{18}N_2$	[38126-74-8]	butylhydrazone butyraldehyde				
	V	(298–323)	55.6	310		[1980LEB/NAZ]
$C_8H_{18}N_2$	[21041-71-4]	isobutylhydrazone isobutyraldehyde				
	V	(288–313)	57.2	300		[1980LEB/NAZ]
$C_8H_{18}N_2O$	[16649-52-8]	dibutyldiazene *N*-oxide				
	TRS		8.34	268		
	FUS		11.52	288.4	DSC	[1980BYS]
	V		45.9 ± 0.1	298	C	[1981BYS]
$C_8H_{18}N_2O$	[42955-46-4]	1-heptyl urea				
	FUS		29.0	386.1	DSC	[2005HAS/TAJ]
	TRS		1.4	379.2		
	FUS		26.3	382.2	DSC	[1999WEL/DRU]
$C_8H_{18}N_2O_2$	[122-96-3]	1,4-bis-(2-hydroxyethyl)piperazine				
	FUS		25.9	405		[1996DOM/HEA, 1984LEB/GUT]
	SUB	(354–396)	128.0 ± 1.0	375	GS	[2002VER2]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(354–396)	130.5 ± 1.0	298	GS	[2002VER2]
	SUB	(334–356)	104.1			[1984LEB/GUT]
	V	(413–507)	67.8 ± 5.3			[1998ABD/MEI]
$C_8H_{18}N_4O_4$	[35823-10-0]	*N*,*N*′-dimethyl-*N*,*N*′ dinitro-1,6-hexanediamine				
	FUS		61.68	331	DTA	[1987OYU/BRI]
	SUB		125.5 ± 1.7	298	C	[2009MIR/KON]
[Note: The authors of [2009MIR/KON] tabulate the experimental value as an enthalpy of vaporization; however, they report that the compound is crystalline and use the value to calculate the standard molar enthalpy of formation. Given the crystaline state and how the value was used, we have tabulated the value as an enthalpy of sublimation.]						
$C_8H_{18}O$	[629-32-3]	heptyl methyl ether				
	V		46.9	298		[UR/FUC, 1985MAJ/SVO]
$C_8H_{18}O$	[1000-63-1]	butyl *tert*-butyl ether				
	V		43.2	298		[UR/VER, 2002VER]
	V		41.6 ± 0.2	298	C	[2002VAR/AIT]
	V		42.3 ± 0.3	298	C	[1991SHA/MIS]
	V	(293–397)	41.7	308	A	[1987STE/MAL]
	V	(356–397)	38.3	371	EB	[1987STE/MAL, 1969SHE/LAN]
$C_8H_{18}O$	[33021-02-2]	*tert*-butyl isobutyl ether				
	FUS		8.65	162.3		[2006DRU/DOR]
	V	(349–386)	39.1 ± 0.5	298	EB	[2007EFI/PAS]
	V		41.2 ± 0.3	298		[UR/VER, 2002VER]
	V		39.2 ± 0.3	298	C	[2002VAR/AIT]
	V	(273–308)	40.9 ± 0.3	298	GS	[1996VER/BEC]
	V		40.1 ± 0.1	298	C	[1991SHA/MIS]
$C_8H_{18}O$	[17071-47-5]	butyl isobutyl ether				
	V	(328–406)	40.3	343	A	[1987STE/MAL]
$C_8H_{18}O$	[32970-45-9]	*sec*-butyl *tert*-butyl ether				
	V		41.3	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_8H_{18}O$	[32970-45-9]	1-methyl-1-*tert*-butoxypropane				
	V		40.3 ± 0.2	298	C	[1991SHA/MIS]
$C_8H_{18}O$	[142-96-1]	dibutyl ether				
	V	(339–415)	40.9	354	A	[1987STE/MAL]
	V	(336–415)	41.7	351	A	[1987STE/MAL]
	V		44.7 ± 0.1	298	C	[1982FUC/PEA]
	V		45.0 ± 0.1	298	C	[1980MAJ/WAG]
	V		43.9	313	C	[1980MAJ/WAG]
	V		42.9	328	C	[1980MAJ/WAG]
	V		41.9	343	C	[1980MAJ/WAG]
	V		40.7	358	C	[1980MAJ/WAG]
	V	(362–414)	44.4	298		[1976AMB/ELL]
	V	(362–414)	36.4	413		[1976AMB/ELL]
	V	(362–413)	40.6	377	EB	[1969CID/POL]
	V	(386–440)	39.4	413		[1965NIS/LAP]
$C_8H_{18}O$	[6163-66-2]	di-*tert*-butyl ether				
	V	(290–386)	37.7 ± 0.3	298	EB	[1996STE/CHI2]
	V	(289–382)	37.3	304	A	[1987STE/MAL, 1976AMB/ELL]
	V	(289–382)	37.2	298		[1976AMB/ELL]
	V	(289–382)	31.6	380		[1976AMB/ELL]
	V		37.6 ± 0.1	298	C	[1975FEN/HAR]
	V	(277–382)	38.7	292	A	[1987STE/MAL, 1961SMU/BON]
$C_8H_{18}O$	[628-55-7]	diisobutyl ether				
	TRS	(8–373)	1.8	170.7		
	FUS	(8–383)	11.33	190.4	AC	[2009EFI/DRU]
	V	(331–395)	41.2 ± 0.7	298	EB	[2009EFI/DRU]
	V	(320–396)	38.9	335	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{18}O$	[74058-13-2]	propyl *tert*-amyl ether				
	V		43.8 ± 0.7	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_8H_{18}O$	[3249-46-5]	isopropyl *tert*-amyl ether				
	V		41.6	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_8H_{18}O$	[104-76-7]	2-ethyl-1-hexanol				
	V	(390–458)	53.3	405		[2012LAA/ZAI]
	V	(293–331)	68.5 ± 0.2	298	GS	[2005ROG/PIS]
	V	(373–398)	52.7	388		[1973LIN/WIC]
	V	(347–457)	60.2	362	A	[1987STE/MAL, 1961DYK/SEP]
$C_8H_{18}O$	[597-76-2]	3-ethyl-3-hexanol				
	V	(331–433)	49.2	345		[1973WIL/ZWO]
$C_8H_{18}O$	[10137-88-9]	2-ethyl-4-methyl-1-pentanol				
	V	(343–450)	58.9	358	A	[1987STE/MAL, 1961DYK/SEP, 1973WIL/ZWO]
$C_8H_{18}O$	[106-67-2]	2-methyl-1-heptanol				
	V	(350–449)	53.3	365	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[1070-32-2]	3-methyl-1-heptanol				
	V	(360–459)	53.4	375	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[817-91-4]	4-methyl-1-heptanol				
	V	(357–456)	55.9	372	A	[1987STE/MAL]
	V	(354–456)	56.7	369		[1973WIL/ZWO]
$C_8H_{18}O$	[7212-53-5]	(*dl*)-5-methyl-1-heptanol				
	V	(364–460)	57.6	379	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[1653-40-3]	6-methyl-1-heptanol				
	V	(368–610)	61.0	383	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[625-25-2]	2-methyl-2-heptanol				
	V	(275–314)	62.9 ± 0.2	298	GS	[2005ROG/PIS]
	V	(343–430)	53.1	358	A	[1987STE/MAL]
	V	(339–429)	55	354		[1973WIL/ZWO]
$C_8H_{18}O$	[31367-46-1]	3-methyl-2-heptanol				
	V	(341–440)	48.0	356	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[56298-90-9]	4-methyl-2-heptanol				
	V	(351–445)	54.2	366	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[54630-50-1]	5-methyl-2-heptanol				
	V	(348–445)	51.9	363	A	[1987STE/MAL]
	V	(348–445)	47.2	363		[1973WIL/ZWO]
$C_8H_{18}O$	[4730-22-7]	(*dl*)-6-methyl-2-heptanol				
	V	(354–445)	55.2	369	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[18720-62-2]	(*dl*)-2-methyl-3-heptanol				
	V	(349–441)	54.8	364	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[5582-82-1]	3-methyl-3-heptanol				
	V	(344–433)	54.1	359	A	[1987STE/MAL]
	V	(338–433)	54.7	353		[1973WIL/ZWO]
$C_8H_{18}O$	[14979-39-6]	4-methyl-3-heptanol				
	V	(330–429)	43.9	345	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[18720-65-5]	5-methyl-3-heptanol				
	V	(330–427)	46.5	345	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[18720-66-6]	(*dl*)-6-methyl-3-heptanol				
	V	(333–432)	47.6	348	A	[1987STE/MAL]
$C_8H_{18}O$	[21570-35-4]	2-methyl-4-heptanol				
	V	(348–440)	54.8	363	A	[1987STE/MAL]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(345–437)	56.3	360		[1973WIL/ZWO]
$C_8H_{18}O$	[1838-73-9]	(*dl*)-3-methyl-4-heptanol				
	V	(340–438)	48.0	355	A	[1987STE/MAL, 1973WIL/ZWO]
$C_8H_{18}O$	[598-01-6]	4-methyl-4-heptanol				
	V	(344–434)	54.4	359	A	[1987STE/MAL]
	V	(331–434)	54.8	345		[1973WIL/ZWO]
$C_8H_{18}O$	[19550-07-3]	2,5-dimethyl-3-hexanol				
	V	(337–431)	55	352		[1973WIL/ZWO]
$C_8H_{18}O$	[111-87-5]	1-octanol				
	FUS		23.7	258.7	DSC	[2014CAR/DOS, 2014CAR/CAS]
	FUS		24.3	282.3	DSC	[2006NIC/KWE]
	FUS	(5–398)	25.24	258.4		[2003VAN/GAB]
	SUB		100.4	298		[1965DAV/KYB]
	V	(397–466)	56.8	413	EB	[2010CEN/ROH]
	V	(358–463)	69.3	298		[2006NAS/NEU]
	V	(282–321)	69.6	303	GS	[2001KUL/VER2]
	V	(282–321)	70.1	298	GS	[2001KUL/VER2]
	V	(373–423)	71.6	298	CGC	[1995CHI/HOS]
	V	(273–363)	68.7	318		[1992NGU/KAS]
	V	(328–400)	67.3	343	A	[1987STE/MAL]
	V	(430–474)	52.5	445	A	[1987STE/MAL]
	V	(397–479)	56.6	412	A	[1987STE/MAL]
	V	(475–555)	47.8	490	A	[1987STE/MAL]
	V		71.0 ± 0.4	298	C	[1977MAN/SEL]
	V	(343–468)	67.5	358		[1973WIL/ZWO]
	V	(386–480)	58.3	401	EB	[1987STE/MAL, 1970AMB/SPR]
	V	(352–468)	65.0	367	DTA	[1969KEM/KRE]
	V	(293–353)	70.4	308		[1966GEI/FRU]
	V	(267–282)	64.0	274	A, ME	[1987STE/MAL, 1965DAV/KYB]
	V	(365–427)	61.6	380		[1958ROS/PAP]
$C_8H_{18}O$	[123-96-6]	(*dl*)-2-octanol				
	V	(284–329)	67.9 ± 0.3	298	GS	[2007VER/SCH]
	V	(253–353)	70.7	268		[1999NGU/BER]
	V	(333–453)	60.7	348	A	[1987STE/MAL]
	V	(367–453)	56.1	382		[1984SAC/MAR]
	V	(345–453)	60.0	360		[1973WIL/ZWO]
$C_8H_{18}O$	[20296-29-1]	(*dl*)-3-octanol				
	V	(288–324)	67.9 ± 0.3	298	GS	[2007VER/SCH]
	V	(253–348)	71.6	268		[1999NGU/BER]
	V	(313–450)	64.1	328	A	[1987STE/MAL]
	V	(366–450)	54.5	381		[1984SAC/MAR]
	V	(349–449)	58.8	364		[1973WIL/ZWO]
$C_8H_{18}O$	[589-62-8]	(*dl*)-4-octanol				
	V	(288–322)	67.2 ± 0.5	298	GS	[2007VER/SCH]
	V	(343–450)	57.3	358	A	[1987STE/MAL]
	V	(364–449)	54.8	379		[1984SAC/MAR]
	V	(341–449)	62.1	356		[1973WIL/ZWO]
$C_8H_{18}O$	[123-44-4]	(*dl*)-2,4,4-trimethyl-1-pentanol				
	V		60.6 ± 0.1	328	C	[1996ULB/KLU]
	V		58.6 ± 0.1	343	C	[1996ULB/KLU]
	V		56.5 ± 0.1	358	C	[1996ULB/KLU]
	V	(352–446)	54.2	367	A	[1987STE/MAL]
	V	(333–441)	54.7	348		[1973WIL/ZWO]
$C_8H_{18}O$	[7294-05-5]	2,2,3-trimethyl-3-pentanol				
	V	(318–426)	47.3	333		[1973WIL/ZWO]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{18}O$	[5162-48-1]	2,2,4-trimethyl-3-pentanol				
	V	(328–428)	57.1	343		[1973WIL/ZWO]
$C_8H_{18}O_2$	[110-05-4]	di-*tert*-butyl peroxide				
	V	(308–358)	37.0	333	EB	[1995DIO/MIN]
	V	(308–358)	38.9	298	EB	[1995DIO/MIN]
	V		36.6 ± 0.6	298	C	[1990VAN/PAV]
	V	(246–311)	32.0	261	A	[1987STE/MAL, 1978IND/STO]
	V	(273–384)	31.0	288	A	[1987STE/MAL, 1951EGE/EMT]
	V		40.2	298		[1951VAU, 1948RAL/RUS]
$C_8H_{18}O_2$	[18854-56-3]	1,2-dipropoxyethane				
	V	(234–453)	U28.2	249	A	[1987STE/MAL]
	V		50.6 ± 0.1	298	C	[1970KUS/WAD]
$C_8H_{18}O_2$	[4413-13-2]	1-butoxy-2-ethoxyethane				
	V		50.9 ± 0.1	298	C	[1970KUS/WAD]
$C_8H_{18}O_2$	[4468-93-3]	ethylene glycol mono(2-ethylbutyl) ether				
	V	(357–470)	53.4	372	A	[1987STE/MAL]
$C_8H_{18}O_2$	[112-25-4]	ethylene glycol monohexyl ether				
	V	(363–483)	54.6	378	A	[1987STE/MAL]
$C_8H_{18}O_2$		3-hydroxymethyl-4-heptanol				
	V	(375–518)	61.6	390	A	[1987STE/MAL]
$C_8H_{18}O_2$	[629-41-4]	1,8-octanediol				
	FUS		36.3	331.6	DSC	[2014BAD/NOW]
	FUS		36.1	332.8	DTA	[1991ACR, 1990KNA/SAB]
	FUS		28.9	336.2	C	[1969COR/GOO]
	SUB		138.3 ± 0.8	323	C	[1990KNA/SAB]
	SUB		139.3 ± 0.9	298	C	[1990KNA/SAB]
	V		104.9 ± 0.3	298	CGC	[2006UMN/KWE]
	V		101.0 ± 1.7	356		[1993PIA/FER, 2006UMN/KWE]
	V		107.0 ± 2.2	298		[1993PIA/FER, 2006UMN/KWE]
	V		105.4 ± 1.8	298		[1990KNA/SAB, 2006UMN/KWE]
$C_8H_{18}O_2$	[144-19-4]	2,2,4-trimethyl-1,3-pentanediol				
	FUS		24.2	328.3		[2002STE/CHI]
	V	(396–489)	66.6 ± 2.1	400	EB	[2002STE/CHI]
	V	(396–489)	60.3 ± 1.7	440	EB	[2002STE/CHI]
	V	(396–489)	55.0 ± 1.6	480	EB	[2002STE/CHI]
	V	(413–502)	58.5	428	A	[1987STE/MAL]
$C_8H_{18}O_2$	[94-96-2]	2-ethyl-1,3-hexanediol				
	V	(331–413)	79.5	298		[1974BLA/LEV, 2007VER]
$C_8H_{18}O_2$	[110-03-2]	2,5-dimethyl-2,5-hexanediol				
	V		85.2 ± 3.5	298	CGC	[2006UMN/KWE]
$C_8H_{18}O_2S$	[598-04-9]	di-*n*-butyl sulfone				
	SUB		100.4 ± 2.5			[UR/MAC, 1970COX/PIL]
$C_8H_{18}O_2S$	[1886-75-5]	di-*tert*-butyl sulfone				
	SUB		94.1 ± 2.9			[UR/MAC, 1970COX/PIL]
$C_8H_{18}O_3$	[1538-75-6]	trimethylacetic acid anhydride				
	V	(355–513)	50.7 ± 0.2	360	EB	[2002STE/CHI4]
	V	(355–513)	47.4 ± 0.2	400	EB	[2002STE/CHI4]
	V	(355–513)	44.0 ± 0.4	440	EB	[2002STE/CHI4]
	V	(355–513)	40.3 ± 0.7	480	EB	[2002STE/CHI4]
$C_8H_{18}O_3$	[112-36-7]	diethylene glycol diethyl ether				
	V	(363–453)	53.0	378		[2005LEE/SU]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		56.4 ± 1.4	298	CGC	[2000NIC/ORF]
	V	(330–461)	48.3	345	A	[1987STE/MAL]
$C_8H_{18}O_3$	[112-34-5]	diethylene glycol monobutyl ether				
	V	(415–505)	55.7	430	A	[1987STE/MAL]
$C_8H_{18}O_3S$	[626-85-7]	dibutyl sulfite				
	V		67.8 ± 1.7	298	BP	[1969MAC/STE2]
$C_8H_{18}O_4$	[112-49-2]	1,2-bis(2-methoxyethoxy)ethane (triglyme)				
	V		63.7 ± 3.3	298	CGC	[2000NIC/ORF]
$C_8H_{18}O_4$	[112-49-2]	2,5,8,11-tetraoxadodecane				
	FUS		23.71	229.3		[1996DOM/HEA, 1966BEA/CLE]
$C_8H_{18}O_4$	[52894-25-4]	1,2,7,8-octanetetraol (1,2,7,8-tetrahydroxyoctane)				
	FUS		36.7	352.2		[1991HEN/TSC, 1994HEN/DIE]
$C_8H_{18}O_4S$	[625-22-9]	dibutyl sulfate				
	V		75.5 ± 1.7	298	BP	[1969MAC/STE2]
$C_8H_{18}O_4S_2$	[76-20-0]	2,2-butanediol bis(ethylsulfonate) (trional)				
	V	(443–493)	75.7	458	A	[1987STE/MAL, 1999DYK/SVO]
	V		78.2	448	I	[1943CRA]
$C_8H_{18}O_5$	[112-60-7]	tetraethylene glycol				
	V	(426–581)	92.2	441	A	[1987STE/MAL, 1947STU]
$C_8H_{18}S$	[544-40-1]	dibutyl sulfide				
	FUS	(12–355)	19.41	198.1		[1996DOM/HEA, 1961MCC/FIN]
	V	(255–422)	44.8	339		[2004SAW/MOK]
	V	(283–390)	40.3	298		[1999DYK/SVO]
	V		53	298		[1981SHI/SAI]
	V		54.2 ± 0.8	298	GC	[1964MAC/MCC]
	V	(390–470)	46.5	405	A, EB	[1987STE/MAL, 1952WHI/BAR]
$C_8H_{18}S$	[626-26-6]	di-*tert*-butyl sulfide				
	V	(264–329)	44.9	279		[1999DYK/SVO]
	V	(329–470)	41.4	344		[1999DYK/SVO]
	V	(390–470)	46.4	405		[1999DYK/SVO]
	V	(278–308)	44.8	293		[1998STO/NG]
	V	(324–420)	42.4	339	A	[1987STE/MAL]
	V		43.8	298		[1981SHI/SAI]
	V		43.8 ± 0.1	298		[1972GOO]
	V		49.3 ± 0.8	298	GC	[1964MAC/MCC]
	V	(325–350)	42.3	333	EB	[1962MAC/MAY2]
$C_8H_{18}S$	[592-65-4]	diisobutyl sulfide				
	V	(325–346)	46.4	335	A	[1987STE/MAL, 1999DYK/SVO]
	V		48.7	298		[1981SHI/SAI]
	V		48.5 ± 0.8	298	GC	[1964MAC/MCC]
	V	(326–346)	43.1	336	EB	[1962MAC/MAY2]
$C_8H_{18}S$	[626-26-6]	di-*sec*-butyl sulfide				
	V	(255–422)	47.0	298		[2004SAW/MOK]
$C_8H_{18}S$	[111-88-6]	1-octanethiol				
	FUS		24.27	224		[1996DOM/HEA, 1985DEA]
	V	(372–473)	49.6	387	A	[1987STE/MAL, 1999DYK/SVO, 1932ELL/REI]
$C_8H_{18}S$	[3001-66-9]	2-octanethiol				
	V	(347–489)	49.0	362		[1999DYK/SVO]
$C_8H_{18}S$	[10435-81-1]	(*dl*)-2-octanethiol				
	V	(361–460)	48.0	376	A	[1987STE/MAL, 1999DYK/SVO, 1932ELL/REI]
$C_8H_{18}S_2$	[629-45-8]	dibutyl disulfide				
	V	(383–423)	64.1	298	CGC	[1995CHI/HOS]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		62.3 ± 0.2	298	C	[1985KUS]
	V		62.3	298		[1981SHI/SAI]
$C_8H_{18}S_2$	[1518-72-5]	diisobutyl disulfide				
	V		57.2 ± 0.1	298	C	[1985KUS]
	V		57.2	298		[1981SHI/SAI]
$C_8H_{18}S_2$	[110-06-5]	2,2,5,5-tetramethyl-3,4-dithiahexane				
	V	(383–423)	53.8	298	CGC	[1995CHI/HOS]
	V		52.5 ± 0.2	298	C	[1985KUS]
	V		52.5	298		[1981SHI/SAI]
$C_8H_{18}S_2$	[1191-62-4]	1,8-octanedithiol				
	V	(405–543)	60.9	420	A	[1987STE/MAL, 1943HAL/REI, 1999DYK/SVO]
$C_8H_{19}N$	[20810-06-4]	*N*-butyl isobutylamine				
	V	(313–423)	41.2	328	A	[1987STE/MAL]
$C_8H_{19}N$	[111-92-2]	*N*, *N*-dibutylamine				
	V		50.8 ± 4.1	298	CGC	[2014THO/GOB]
	V	(343–479)	46.0	358	A	[1987STE/MAL]
	V		46.0 ± 0.1	343	C	[1979PET/MAJ]
	V		44.8 ± 0.1	358	C	[1979PET/MAJ]
	V	(291–305)	48.1	298		[1971LEB/KAT2]
	V		49.4 ± 0.1	298	C	[1969WAD]
	V	(273–333)	45.7 ± 0.3	298	I	[1969FRA/WAT]
$C_8H_{19}N$	[110-963-3]	*N*, *N*-diisobutylamine				
	V	(291–305)	39.3	298		[1971LEB/KAT2]
	V	(273–333)	43.1 ± 0.3	298	I	[1969FRA/WAT]
	V	(268–413)	43.8	283	A	[1987STE/MAL, 1947STU]
	V		35.6	408	C	[1901KAH]
$C_8H_{19}N$	[626-23-3]	*N*, *N*-di-*sec*-butylamine				
	V	(273–333)	41.3 ± 0.3	298	I	[1969FRA/WAT]
$C_8H_{19}N$	[104-75-6]	2-ethylhexylamine				
	V	(341–447)	44.8	356	A	[1987STE/MAL]
$C_8H_{19}N$	[111-86-4]	octylamine				
	FUS		34.74	273.4	DSC	[2005DOM/MAR]
	V		55.5 ± 2.2	298	GS	[2013GOB/RAT]
	V	(274–313)	55.3 ± 0.3	294	GS	[2013THO/CHI]
	V	(274–313)	55.1 ± 0.3	298	GS	[2013THO/CHI]
	V		55.6 ± 6.0	298	CGC	[2013THO/CHI]
	V	(343–494)	54.8 ± 0.5	298	EB, IPM	[1996STE/CHI3]
	V	(343–494)	48.7 ± 0.3	360	EB, IPM	[1996STE/CHI3]
	V	(343–494)	45.3 ± 0.3	400	EB, IPM	[1996STE/CHI3]
	V	(343–494)	41.8 ± 0.4	440	EB, IPM	[1996STE/CHI3]
	V	(343–494)	38.1 ± 0.7	480	EB, IPM	[1996STE/CHI3]
	V	(323–373)	54.6	298	CGC	[1995CHI/HOS]
	V	(308–453)	50.8	323	A	[1987STE/MAL]
	V	(308–453)	55.5 ± 2.3	298	BP	[1940RAL/SEL, 2013THO/CHI]
$C_8H_{19}O_2PS_3$	[298-04-4]	*O*, *O*-diethyl-*S*-[2-(ethylthio)ethyl] dithiophosphate				
	V	(283–401)	76.7	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{19}O_2PS_3$	[2253-44-3]	*O*, *O*′-dibutyl dithiophosphate				
	V		81.8	298		[2008SAG/SAF]
$C_8H_{19}O_3P$	[1809-19-4]	dibutyl phosphite				
	V	(298–438)	37.8	313	A	[1987STE/MAL, 1958PAG/PUR]
$C_8H_{19}O_3P$	[1067-69-2]	diisopropyl ethylphosphonate				
	V		60.7 ± 4.2			[1956NEA/WIL, 1982PIL/SKI]

TABLE 11. Phase change enthalpies of C_8 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_8H_{19}O_3PS_2$	[298-03-3]	*O*, *O*-diethyl-*O*-[2-(ethylthio)ethyl] thiophosphate				
	V	(283–411)	78.7	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{19}O_3PS_2$	[126-75-0]	*O*, *O*-diethyl-*S*-[2-(ethylthio)ethyl] thiophosphate				
	V	(283–401)	76.4	298	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{20}ClN$	[6287-40-7]	dibutylammonium chloride				
	V	(553–563)	116.7	558	A	[1987STE/MAL, 1999DYK/SVO, 1967KIS]
$C_8H_{20}N_2$	[373-44-4]	octane-1,8-diamine				
	FUS		50.51	324.9	DSC	[2006KHI/DAH2]
	FUS		52.4	325.6	AC	[2004MON/VAN, 2014FUL/RUZ]
	FUS		50.98	324.8	DSC	[2002DAL/DEL]
	SUB	(289–313)	116.7	298	Static	[2014FUL/RUZ]
	V	(328–363)	71.7 ± 0.6	298	GS	[2011POZ/VER]
$C_8H_{20}N_2$	[4267-00-9]	tetraethylhydrazine				
	V	(308–368)	33.4	323	A	[1987STE/MAL, 1943WES/EUC]
$C_8H_{20}N_2$	[97-84-7]	*N*, *N*, *N*′, *N*′-tetramethyl-1,3-butanediamine				
	V	(273–363)	49.2	288		[2002DAH/MOK]
	V	(273–363)	47.9 ± 0.4	298		[2002DAH/MOK, 2012VER/CHE]
	V	(335–439)	42.7	350	A	[1987STE/MAL]
$C_8H_{20}N_2O$	[5336-24-3]	1,3-di-*tert*-butyl urea				
	TRS	(5–320)	1.9	301.7	AC	[1995KAB/KOZ2]
	SUB	(323–372)	91.9 ± 0.9	348	ME	[2003ZAI/KAB]
	SUB	(323–372)	91.9 ± 0.9	350	ME	[2003ZAI/KAB]
	SUB		90.0 ± 1.0	350	C	[2003ZAI/KAB]
	SUB		91.7 ± 0.7	298		[2003ZAI/KAB]
$C_8H_{20}N_2O_2S$	[2832-49-7]	*N*, *N*, *N*′, *N*′-tetraethylsulfamide				
	V	(407–528)	59.1	422	A	[1987STE/MAL, 1978LUK/MAK]
$C_8H_{20}N_2O_3$	[6487-26-5]	*N*, *N*, *N*′-tris(2-hydroxyethyl)ethylenediamine				
	V	(373–472)	90.0	423	GS	[1998ABD/MEI]
$C_8H_{20}O_5P_2S_2$	[3689-24-5]	dithiopyrophosphoric acid, tetraethyl ester				
	V	(293–409)	80.6	308	A	[1987STE/MAL, 1999DYK/SVO]
$C_8H_{20}O_7P_2$	[107-49-3]	pyrophosphoric acid, tetraethyl ester				
	V	(283–411)	82.2	298	A	[1987STE/MAL]
$C_8H_{23}N_5$	[112-57-2]	tetraethylene pentamine				
	V	(464–615)	71.3	478	A	[1987STE/MAL]
$C_8H_{24}N_4O_3P_2$	[152-16-9]	pyrophosphoric acid tetrakis(dimethylamide)				
	V	(273–415)	65.5	288	A	[1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_9F_{16}	[75240-06-1]	*trans*-perfluorohydrindane				
	V		45.2 ± 0.1	298	C	[1996VAR/DRU]
C_9F_{16}	[75262-87-2]	*cis*-perfluorobicyclo[4.3.0]nonane				
	TRS	(5–350)	8.76	200.6		
	TRS	(5–350)	1.27	245.6		
	FUS	(5–350)	2.72	291.3	AC	[1998VAR/DRU]
C_9F_{16}	[75240-06-1]	*trans*-perfluorobicyclo[4.3.0]nonane				
	TRS	(5–350)	8.91	236.6		
	FUS	(5–350)	2.63	248.1	AC	[1998VAR/DRU]
$C_9F_{17}NO_3S$	[34834-20-3]	perfluoro-1-octanesulfonylisocyanate				
	V	(324–470)	67.7	339	A	[1987STE/MAL, 1999DYK/SVO, 1974BEH/HAA]
C_9F_{18}	[374-59-4]	perfluoro(propylcyclohexane)				
	V	(321–396)	40.4	336		[1999DYK/SVO]
	V		43.1 ± 0.1	298	C	[1996VAR/DRU]
	V		43.1 ± 0.5	298	EB	[1981VAR/BUL]
	V		43.1 ± 0.1	298	C	[1981VAR/BUL]
C_9F_{18}	[423-02-9]	perfluoro(isopropylcyclohexane)				
	V		46.7 ± 0.1	298	C	[1996VAR/DRU]
$C_9F_{18}N_2$	[34451-14-4]	1,1,1,3,3,3-hexafluoro-*N,N′*-bis[2,2,2-trifluoro-1-(trifluoromethy)-ethylidene]-2,2-propanediamine				
	V	(314–381)	35.5	329	A	[1987STE/MAL, 1972SWI/SHR]
$C_9F_{18}O_3$	[40719-69-5]	carbonic acid, bis[1,1,1,3,3,3-hexafluoro-2-(trifluoromethyl)-2-propyl ester				
	V	(316–358)	39.7	331	A	[1987STE/MAL, 1975WAL/DES2]
$C_9F_{19}NO$	[54120-06-8]	2,2,2-trifluoro-*N*-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]ethanimidic acid, 1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl ester				
	V		37.6	385		[1975PET/SHR]
C_9F_{20}	[375-96-2]	perfluorononane				
	V	(288–333)	45.3 ± 0.2	298		[2005DIA/GON]
	V	(387–524)	32.8	402	A	[1987STE/MAL, 1967BER/WES, 1999DYK/SVO]
$C_9F_{21}N$	[514-03-4]	perfluoro-*N*-methyl-*N,N*-dibutylamine				
	V	(339–407)	48.8 ± 0.8	298	EB	[1995VAR/DRO]
	V		48.2 ± 0.1	298	C	[1995VAR/DRO]
$C_9F_{21}N$	[338-83-0]	tris(heptafluoropropyl)amine				
	V		46.6 ± 0.3	298	C	[1995VAR/DRO]
	V	(329–403)	46.9 ± 0.7	298	EB	[1995VAR/DRO]
	V	(333–403)	40.6	348	A	[1987STE/MAL, 1951HAS]
$C_9H_2Cl_6O_3$	[7365-74-4]	4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1,3-dione				
	TRS		10.64	385.4		
	FUS		2.67	506	DSC	[1984WEI/LEF]
$C_9H_4ClF_{15}O$	[65064-85-9]	7-(2-chloro-1,1,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5,6,6-dodecafluoroheptane				
	V	(358–460)	64.6 ± 1.1	298	EB	[1981VAR/BUL2]
	V		63.8 ± 0.4	298	C	[1981VAR/BUL2]
$C_9H_4Cl_3NO_2S$	[133-07-3]	2-[(trichloromethyl)thio]-1*H*-isoindole-1,3(2*H*)-dione				
	FUS		35.49	454.2	DSC	[1991ACR, 1990DON/DRE]
$C_9H_4Cl_4O_4$	[887-54-7]	methyl tetrachloroterephthalic acid ester				
	FUS		16.89	444.3	DSC	[1990DON/DRE]
$C_9H_4Cl_8O$	[76341-69-0]	1,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran				
	FUS		25.94	395.4	DSC	[1969PLA/GLA]
$C_9H_4O_5$	[552-30-7]	trimellitic acid anhydride				
	FUS		10.46	385		[1996DOM/HEA, 1978MAR/CIO]
	V	(558–596)	65.6	573	A	[1987STE/MAL]
$C_9H_5BrClNO$	[7640-33-7]	7-bromo-5-chloro-8-hydroxyquinoline				
	SUB	(353–368)	110.1 ± 0.8	361	ME	[1992RIB/MON2]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(353–368)	113.2 ± 0.8	298	ME	[1992RIB/MON2]
$C_9H_5Br_2NO$	[521-74-4]	5,7-dibromo-8-hydroxyquinoline				
	SUB	(365–380)	113.6 ± 1.3	372	ME	[1992RIB/MON2]
	SUB	(365–380)	117.3 ± 1.3	298	ME	[1992RIB/MON2]
	SUB	(363–393)	94.1			[1963HOR/WEN]
C_9H_5ClINO	[130-26-7]	5-chloro-7-iodo-8-hydroxyquinoline				
	SUB	(359–378)	111.3 ± 0.4	368	ME	[1992RIB/MON2]
	SUB	(359–378)	114.8 ± 0.4	298	ME	[1992RIB/MON2]
C_9H_5ClINO	[35048-13-6]	5-iodo-7-chloro-8-hydroxyquinoline				
	SUB	(383–414)	131			[1963HOR/WEN]
$C_9H_5ClN_2O_2$	[15166-26-4]	5-chloro-2,4-diisocyanato-1-methylbenzene				
	V	(373–433)	66.7	388	A	[1987STE/MAL]
	V	(373–433)	60.2 ± 0.2	403		[1972STR/NOV]
$C_9H_5Cl_2N$	[86-98-6]	4,7-dichloroquinoline				
	SUB		89.5 ± 2.3	298	C	[2006RIB/MAT]
$C_9H_5Cl_2NO$	[773-76-2]	5,7-dichloro-8-hydroxyquinoline				
	SUB	(351–366)	106.3 ± 0.7	358	ME	[1992RIB/MON2]
	SUB	(351–366)	109.3 ± 0.7	298	ME	[1992RIB/MON2]
	SUB	(363–393)	92.9			[1963HOR/WEN]
$C_9H_5Cl_3N_4$	[101-05-3]	4,6-dichloro-*N*-(2-chlorophenyl)-1,3,5-triazin-2-amine				
	FUS		31.48	431	DSC	[1990DON/DRE]
$C_9H_5I_2NO$	[83-73-8]	5,7-diiodo-8-hydroxyquinoline				
	SUB	(389–404)	121.9 ± 0.8	396	ME	[1992RIB/MON2]
	SUB	(389–404)	126.8 ± 0.8	298	ME	[1992RIB/MON2]
	SUB	(403–423)	110.9			[1963HOR/WEN]
C_9H_6BrN	[5332-24-1]	3-bromoquinoline				
	V		70.7 ± 2.3	298	C	[2008RIB/AMA]
C_9H_6ClN	[612-62-4]	2-chloroquinoline				
	SUB		84.3 ± 2.6	298	C	[2006RIB/MAT]
C_9H_6ClN	[611-35-8]	4-chloroquinoline				
	SUB		78.6 ± 1.7	298	C	[2006RIB/MAT]
C_9H_6ClN	[612-57-7]	6-chloroquinoline				
	SUB		80.8 ± 1.9	298	C	[2006RIB/MAT]
C_9H_6ClNO	[130-16-5]	5-chloro-8-hydroxyquinoline				
	SUB	(317–327)	97.5 ± 0.9	322	ME	[1992RIB/MON2]
	SUB	(317–327)	98.7 ± 0.9	298	ME	[1992RIB/MON2]
$C_9H_6ClNO_2$	[17564-64-6]	*N*-chloromethylphthalimide				
	SUB		103.5 ± 1.1	298	C	[2007RIB/SAN3]
	SUB	(323–343)	103.6 ± 0.9	298	ME	[2007RIB/SAN3]
$C_9H_6Cl_2N_2O_3$	[20354-26-1]	2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione				
	FUS		29.5	396.3	DSC	[1990DON/DRE]
$C_9H_6Cl_2O_3$	[17812-11-2]	2,3-dichloro-5-norbornene-2,3-dicarboxylic anhydride				
	TRS		17.94	339.1		
	FUS		5.36	457.6	DSC	[1984WEI/LEF]
$C_9H_6Cl_6O_3S$	[959-98-8]	endosulfan I				
	FUS		10.0	380	DSC	[1990DON/DRE]
	V	(343–453)	80.4	398	GC	[1990HIN/BID2]
$C_9H_6Cl_6O_3S$	[33213-65-9]	endosulfan II				
	V	(343–453)	82.4	398	GC	[1990HIN/BID2]
$C_9H_6Cl_6O_3S$	[115-29-7]	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide (endosulfan)				
	FUS		16.52	368	DSC	[2000ROD/VEC]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_6Cl_6O_4S$	[1031-07-8]	endosulfan sulfate				
	V	(343–453)	85.6	398	GC	[1990HIN/BID2]
$C_9H_6Cl_6O_4S$	[1031-07-8]	6,7,8,9,10,10-hexachloro-6,9-methano-2,4,3-benzodioxathiapin-3,3-dioxide				
	FUS		21.66	419.7	DSC	[1990DON/DRE]
C_9H_6INO	[13207-63-1]	5-iodo-8-hydroxyquinoline				
	SUB	(363–393)	118.8		ME	[1963HOR/WEN]
$C_9H_6N_2O_2$	[584-84-9]	2,4-toluene diisocyanate				
	V	(373–530)	59.7	388	A	[1987STE/MAL]
	V	(393–530)	59.5	408	A	[1987STE/MAL]
	V	(373–530)	61.3	388	I	[1975FRE/ADA]
	V	(373–433)	57.7 ± 0.2	403		[1972STR/NOV]
$C_9H_6N_2O_2$	[91-08-7]	2,6-toluene diisocyanate				
	V	(373–463)	60.4	388	A	[1987STE/MAL]
$C_9H_6N_2O_2$	[607-34-1]	5-nitroquinoline				
	SUB	(310–324)	93.2 ± 0.7	317	ME	[1997RIB/MAT5]
	SUB	(310–324)	94.2 ± 0.7	298	ME	[1997RIB/MAT5]
$C_9H_6N_2O_2$	[613-50-3]	6-nitroquinoline				
	SUB	(336–350)	101.5 ± 1.0	343	ME	[1997RIB/MAT5]
	SUB	(336–350)	103.8 ± 1.0	298	ME	[1997RIB/MAT5]
$C_9H_6N_2O_2$	[607-35-2]	8-nitroquinoline				
	SUB	(338–352)	104.3 ± 0.9	345	ME	[1997RIB/MAT5]
	SUB	(338–352)	106.7 ± 0.9	298	ME	[1997RIB/MAT5]
$C_9H_6N_2O_3$	[4008-48-4]	5-nitro-8-hydroxyquinoline				
	FUS		19.61	455.2	DSC	[2010GAO/LIN]
	FUS		24.7	453.2	DSC	[2001ZOR/COS]
	SUB	(413–453)	81.66		TGA	[2010GAO/LIN]
	SUB	(413–453)	86.14	298	TGA	[2010GAO/LIN]
Note: The authors of [2010GAO/LIN] did note that their experimental value differed significantly from the earlier published literature values.						
	SUB	(352–362)	114.1 ± 2.2	298	ME	[1989RIB/MON]
	SUB		111.2 ± 3.0	298	C	[1989RIB/MON]
$C_9H_6N_4O_2$	[23190-84-3]	3-amino-2-quinoxalinecarbonitrile 1,4-dioxide				
	SUB		139.7 ± 3.7	298	ME	[2004RIB/GOM]
$C_9H_6O_2$	[91-64-5]	coumarin				
	FUS		16.04	344.4	DSC	[2015HUA/WAN]
	FUS		19.54	341.7	DSC	[2013DOS/MOR]
	FUS		18.63	342.3	DSC	[2009MAT/SOU4]
	FUS		19.6	342.0	DSC	[2004STU/WIT]
	FUS		19.14	342.1		[1996DOM/HEA, 1991ELW/SAB, 1992SAB/WAT]
	SUB		95.4 ± 2.6	298	C	[2009MAT/SOU4]
	SUB		83.1	298	C	[1991ELW/SAB, 1992SAB/WAT]
	SUB	(293–353)	86.2	323	ME	[1953SER/VOI, 1960JON, 1987STE/MAL]
	V	(379–463)	63.2	394	A	[1987STE/MAL, 1947STU]
$C_9H_6O_2$	[491-38-3]	chromone				
	FUS		15.44	329.9	DSC	[2009MAT/SOU4]
	FUS		17.31	330.3		[1991ACR, 1996DOM/HEA, 1988SAB/ELW]
	SUB		86.5 ± 1.1	298	C	[2009MAT/SOU4]
	SUB		81.3 ± 0.2	298	C	[1988SAB/ELW]
$C_9H_6O_2$	[606-23-5]	1,3-indandione				
	FUS		21.8	401.5	DSC	[2007MAT/MIR]
	SUB		97.3 ± 1.8	298	C	[2007MAT/MIR]
$C_9H_6O_2$	[637-44-5]	3-phenylpropiolic acid				
	FUS		25.95	410.54	DSC	[2001MON/HIL5]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(329–343)	103.9 ± 0.6	336	ME	[2001MON/HIL5]
	SUB	(329–343)	105.0 ± 1.4	298	ME	[2001MON/HIL5]
$C_9H_6O_3$	[93-35-6]	1-hydroxycoumarin				
	FUS		31.25	503.7	DSC	[2011SOU/MAT2]
	SUB		133.6 ± 1.5	298	C	[2011SOU/MAT2]
$C_9H_6O_3$	[939-19-5]	3-hydroxycoumarin				
	FUS		27.10	425.6	DSC	[2010SOU/MOR]
	SUB		91.9 ± 0.6	298	C	[2010SOU/MOR]
$C_9H_6O_3$	[1076-38-6]	4-hydroxycoumarin				
	FUS		24.49	488.3	DSC	[2013DOS/MOR]
	FUS		23.17	483.6	DSC	[2010SOU/MOR]
	SUB		128.5 ± 1.8	298	C	[2010SOU/MOR]
$C_9H_6O_6$	[528-44-9]	1,2,4-benzenetricarboxylic acid				
	FUS		30.8	499.6	DSC	[2012BOO/BAN]
$C_9H_6O_6$	[554-95-0]	1,3,5-benzenetricarboxylic acid				
	SUB	(553–593)	159.4	573	GS	[1987STE/MAL, 1962KRA/BER]
$C_9H_6S_3$	[3445-76-9]	5-phenyl-1,2-dithiole-3-thione				
	SUB	(363–373)	117.4 ± 0.4			[1972GEI/RAU]
	SUB		123.3 ± 0.4	298		[1972GEI/RAU]
$C_9H_6S_3$	[3445-76-9]	5-phenyldithiolethione				
	FUS		26.27	398	DSC	[1999DOL/LEC]
$C_9H_7BrO_2$	[14473-91-7]	3-bromo-*trans*-cinnamic acid				
	FUS		31.06	443.2	DSC	[2001AHN/HAR]
$C_9H_7Cl_3O_3$	[93-72-1]	2-(2,4,5-trichlorophenoxy)propanoic acid				
	FUS		39.58	450.6	DSC	[1990DON/DRE]
$C_9H_7Cl_3O_3$	[1928-37-6]	2,4,5-trichlorophenoxyacetic acid, methyl ester				
	FUS		30.46	361.9	DSC	[1990DON/DRE]
	V	(444–573)	76.9	459	A	[1987STE/MAL, 1999DYK/SVO]
$C_9H_7F_3O_2$	[1736-09-0]	trifluoroacetic acid, 3-tolyl ester				
	V	(363–439)	47.4	378	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
$C_9H_7F_3O_2$	[1813-29-2]	trifluoroacetic acid, 4-tolyl ester				
	V	(365–442)	47.8	380	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
C_9H_7N	[119-65-3]	isoquinoline				
	FUS		13.54	299.6		[1996DOM/HEA, 1988STE/ARC]
	V		53.3		GC	[1996GOV/RUT]
	V	(313–566)	58.9 ± 0.1	320	IPM, EB	[1988STE/ARC]
	V	(313–566)	56.4 ± 0.1	360	IPM, EB	[1988STE/ARC]
	V	(313–566)	54.1 ± 0.1	400	IPM, EB	[1988STE/ARC]
	V	(313–566)	51.7 ± 0.1	440	IPM, EB	[1988STE/ARC]
	V	(313–566)	49.4 ± 0.2	480	IPM, EB	[1988STE/ARC]
	V	(313–566)	47.0 ± 0.3	520	IPM, EB	[1988STE/ARC]
	V	(439–517)	51.0	454	A, EB	[1987STE/MAL, 1961MAL]
C_9H_7N	[91-22-5]	quinoline				
	TRS		0.07	220		
	FUS		10.66	258.4		[1996DOM/HEA, 1988STE/ARC]
	FUS		10.72	257.9	AC	[1957MAS]
	FUS		10.80	258.4		[1936PAR/TOD]
	V		53.3		GC	[1996GOV/RUT]
	V	(573–668)	46.9	588	DSC	[1996BAC/GRZ]
	V	(504–616)	46.5	519		[1992LEE/CHE]
	V	(298–559)	57.9 ± 0.1	320	IPM, EB	[1988STE/ARC]
	V	(298–559)	55.5 ± 0.1	360	IPM, EB	[1988STE/ARC]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(298–559)	53.1 ± 0.1	400	IPM, EB	[1988STE/ARC]
	V	(298–559)	50.7 ± 0.1	440	IPM, EB	[1988STE/ARC]
	V	(298–559)	48.4 ± 0.2	480	IPM, EB	[1988STE/ARC]
	V	(298–559)	46.0 ± 0.3	520	IPM, EB	[1988STE/ARC]
	V	(473–548)	U65.4	488		[1987KLA/MOH]
	V	(463–794)	46.1	478	A	[1987STE/MAL]
	V	(286–309)	58.1	298	GS	[1980VAN/PRA]
	V	(433–511)	49.2	448	EB	[1987STE/MAL, 1961MAL]
C_9H_7NO	[59-31-4]	2-hydroxyquinoline				
	SUB	(375–390)	115.2 ± 0.6	383	ME	[1990RIB/MAT]
	SUB	(375–390)	119.4 ± 0.6	298	ME	[1990RIB/MAT]
C_9H_7NO	[611-36-9]	4-hydroxyquinoline				
	SUB	(415–433)	128.8 ± 1.1	424	ME	[1990RIB/RIB]
	SUB	(415–433)	135.1 ± 1.1	298	ME	[1990RIB/RIB]
C_9H_7NO	[148-24-3]	8-hydroxyquinoline				
	FUS	(70–370)	40.3	345.7	AC	[2008WAN/TAN]
	FUS		22.1	346.8	DSC	[2001ZOR/COS]
	SUB	(293–303)	89.5 ± 0.9	298	ME	[1989RIB/MON]
	SUB		89.0 ± 1.4	298	C	[1989RIB/MON]
	SUB	(308–328)	108.8 ± 1.7		ME	[1963HOR/WEN, 1970COX/PIL, 1987STE/MAL]
C_9H_7NO	[491-30-5]	1-hydroxyisoquinoline				
	SUB		113.6 ± 2.2	298	C	[2005RIB/MAT]
C_9H_7NO	[2439-04-5]	5-hydroxyisoquinoline				
	SUB		109.6 ± 2.1	298	C	[2005RIB/MAT]
C_9H_7NO	[614-16-4]	Ω– cyanoacetophenone				
	SUB		98.5 ± 2.1	298	C	[2015AMA/SZT]
	SUB	(318–333)	99.8	325.5	A	[1987STE/MAL]
	SUB		92.5 ± 4.2		ME	[1969LEB/DNE, 1977PED/RYL]
C_9H_7NO	[6136-68-1]	3-acetylbenzonitrile				
	SUB		94.7 ± 1.5	298	C	[2015AMA/SZT]
C_9H_7NO	[487-89-8]	indole-3-carboxyaldehyde				
	SUB	(372–394)	119.1 ± 1.0	383	ME	[2014AMA/DEC]
	SUB	(372–394)	120.3 ± 1.0	298	ME	[2014AMA/DEC]
$C_9H_7NO_2$	[696-04-8]	indole-2-carboxylic acid				
	SUB	(360–382)	118.2 ± 1.0	371	ME	[2014AMA/DEC]
	SUB	(360–382)	121.9 ± 1.0	298	ME	[2014AMA/DEC]
$C_9H_7NO_2$	[5154-02-9]	1,5-dihydroxyisoquinoline				
	SUB		123.6 ± 2.2	298	C	[2005RIB/MAT]
$C_9H_7NO_2$	[550-44-7]	*N*-methylphthalimide				
	SUB	(298–316)	91.1 ± 0.5	307	ME	[1997ROU/JIM]
	SUB	(298–316)	91.1 ± 0.5	298	ME	[1997ROU/JIM]
$C_9H_7NO_2$	[2058-74-4]	1-methyl-1*H*-indole-2,3-dione (*N*-methylisatin)				
	FUS		19.5	403.3	DSC	[2003MAT/MIR2]
	SUB		105.6 ± 3.3	298	C	[2003MAT/MIR2]
$C_9H_7N_3O_2$	[35975-00-9]	5-amino-6-nitroquinoline				
	SUB	(400–424)	130.7 ± 0.8	412	ME	[1998RIB/CAR]
	SUB	(400–424)	136.4 ± 0.8	298	ME	[1998RIB/CAR]
$C_9H_7N_3O_2S$	[473-42-7]	4-nitro-*N*-2-thiazolylbenzene sulfonamide				
	FUS		31.8	529.8	DSC	[2014PER/KAZ]
	SUB	(452–509)	144.0 ± 2.0	298	GS	[2016VOL/BLO]
$C_9H_7N_3S$	[41814-78-2]	5-methyl-1,2,4-triazolo[3,4-b]benzothiazole				
	FUS		24.07	460.2	DSC	[1990DON/DRE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_9H_8	[95-13-6]	indene				
	FUS	(15–320)	10.20	271.7		[1996DOM/HEA, 1961STU/SIN]
	V	(275–339)	50.3 ± 0.1	298	GS	[2011VER/EME3]
	V	(369–457)	45.3	384	A	[1987STE/MAL]
	V	(289–455)	43.6	304	A	[1987STE/MAL, 1947STU]
	V	(329–454)	43.9	392		[1942BUR]
$C_9H_8Cl_2O_3$	[6597-78-0]	methyl 3,6-dichloro-2-methoxybenzoate				
	FUS		18.49	304.6	DSC	[1991ACR, 1990DON/DRE]
$C_9H_8Cl_2O_3$	[120-36-5]	2-(2,4-dichlorophenoxy)propanoic acid				
	FUS		32.0	391.3	DSC	[2005VEC/BRU]
	FUS		30.43	389.2	DSC	[1991ACR, 1990DON/DRE]
	SUB		116 ± 6	298	DSC	[2005VEC/BRU]
	SUB	(343–375)	128 ± 2	359	TE	[2005VEC/BRU]
	SUB	(343–375)	130 ± 3	298	TE	[2005VEC/BRU]
$C_9H_8Cl_2O_3$	[1928-38-7]	2,4-dichlorophenoxyacetic acid, methyl ester				
	FUS		20.0	313.4	DSC	[2005VEC/BRU]
	FUS		25.1	315.4	DSC	[1969PLA/GLA]
	V	(403–548)	68.0	418	A	[1987STE/MAL, 1999DYK/SVO]
$C_9H_8Cl_2O_4$	[76330-06-8]	2,6-dichlorosyringaldehyde				
	V	(293–323)	82.2	308	CGC	[1999LEI/WAN2]
$C_9H_8Cl_3NO_3$	[75907-45-8]	2,2,4-trichloro-5-(4-morpholinyl)-4-cyclopentene-1,3-dione				
	V	(453–483)	79.6	468	GC	[1980SHA/SAD]
$C_9H_8N_2$	[1126-00-7]	1-phenylpyrazole				
	V		68.6 ± 2.9	298	CGC	[2010LIP/PLI]
	V		70.2 ± 3.4	298	C	[2000RIB/RIB2]
$C_9H_8N_2$	[7164-98-9]	1-phenylimidazole				
	V		74.3 ± 2.6	298	CGC	[2010LIP/PLI]
	V		84.6 ± 3.7	298	C	[2000RIB/RIB2]
$C_9H_8N_2$	[670-96-2]	2-phenylimidazole				
	FUS		17.81	420	DSC	[2007SIF/AIT]
$C_9H_8N_2$	[580-17-6]	3-aminoquinoline				
	SUB	(329–345)	101.1 ± 0.9	337	ME	[1993RIB/MAT]
	SUB	(329–345)	103.1 ± 0.9	298	ME	[1993RIB/MAT]
	SUB		104.8 ± 4.8	298	C	[1993RIB/MAT]
$C_9H_8N_2$	[611-34-7]	5-aminoquinoline				
	SUB	(329–349)	102.9 ± 0.7	339	ME	[1993RIB/MAT]
	SUB	(329–349)	105.0 ± 0.7	298	ME	[1993RIB/MAT]
	SUB		103.3 ± 3.4	298	C	[1993RIB/MAT]
$C_9H_8N_2$	[580-15-4]	6-aminoquinoline				
	SUB	(333–349)	103.6 ± 1.0	341	ME	[1993RIB/MAT]
	SUB	(333–349)	105.7 ± 1.0	298	ME	[1993RIB/MAT]
$C_9H_8N_2$	[578-66-5]	8-aminoquinoline				
	SUB	(296–314)	93.0 ± 0.5	305	ME	[1993RIB/MAT]
	SUB	(296–314)	93.33 ± 0.5	298	ME	[1993RIB/MAT]
$C_9H_8N_2O$	[14003-34-0]	2-methyl-3-hydroxyquinoxaline				
	FUS		33.4	522.9	DSC	[2000MON/HIL2]
	SUB	(375–391)	117.2 ± 0.4	383	ME	[2000MON/HIL2]
	SUB	(375–391)	119.7 ± 2.8	298	ME	[2000MON/HIL2]
	SUB		123.0 ± 4.4	298	C	[2000RIB/MAT]
$C_9H_8N_2O_2$	[6639-86-7]	2-methylquinoxaline-1,4-dioxide				
	SUB		107.0 ± 6.2	298	C	[1997ACR/POW]
$C_9H_8N_2O_2$	[5972-09-8]	3-methylaminophthalimide				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(402–450)	104.9	417	RG	[1987STE/MAL, 1956KLO]
C_9H_8O	[83-33-0]	1-indanone				
	FUS		17.6	314.1	DSC	[2007MAT/MIR]
	FUS		17.78	312.9	DSC	[1998VER4]
	SUB		78.7 ± 2.8	298	C	[2007MAT/MIR]
	SUB		83.5 ± 0.7	298	GS	[1998VER4]
	V	(318–348)	60.3 ± 0.4		GS	[1998GUD/TOR]
C_9H_8O	[615-13-4]	2-indanone				
	FUS		16.89	330	DSC	[2007MAT/MIR]
	SUB		78.3 ± 1.1	298	C	[2007MAT/MIR]
C_9H_8O	[104-55-2]	3-phenyl-2-propenal (cinnamaldehyde)				
	V		62.4	298	GC	[2002VAN/PAR]
	V	(408–482)	51.7	444	TGA	[2002HAZ/DOL]
	V	(349–519)	58.2	364	A	[1987STE/MAL, 1947STU]
	V	(353–373)	72.7	363	A	[1987STE/MAL]
$C_9H_8O_2$	[621-82-9]	cinnamic acid				
	FUS		11.97	408.7	DSC	[2009MUR/BER]
	FUS		22.63	406.2	DTA	[1986SIN/KUM]
Note: In both instances, the authors did not specify *cis*-or *trans*, and Chemical Abstracts gave a CARN of [621-82-9] when indexing the compound.						
$C_9H_8O_2$	[140-10-3]	*trans*-cinnamic acid				
	FUS		22.21	406.1	DSC	[2008MOT/QUE]
	FUS		25.7	405.5	DSC	[2004STU/WIT]
	FUS		22.6	404.8	DSC	[2004SHA/JAM]
	FUS		22.63	406.2		[1991ACR, 1983WEA]
	SUB	(333–347)	107.1 ± 0.8	298	ME	[1999MON/HIL]
	V	(430–573)	73.9	445	A	[1987STE/MAL]
$C_9H_8O_2$	[102-94-3]	allocinnamic acid (*cis*-cinnamic acid)				
	FUS	(255–360)	16.8	340.1	DSC	[2016DAV/LIM]
	FUS		16.95	341.2		[1991ACR, 1983WEA]
	SUB	(306–326)	101.0 ± 1.2	298	ME	[2016DAV/LIM]
$C_9H_8O_2$	[39869-70-0]	7,7-dimethoxynorborane				
	V	(321–357)	49.0	339	EB	[1994WIB/MOR]
$C_9H_8O_2$	[119-84-6]	3,4-dihydrocoumarin				
	V		69.9 ± 0.5	298	C	[2009MAT/SOU2]
$C_9H_8O_2$	[491-37-2]	chromanone				
	FUS		16.7	312.3	DSC	[2009MAT/SOU]
	SUB		84.6 ± 1.3	298	C	[2009MAT/SOU]
$C_9H_8O_2$	[4385-35-7]	3-isochromanone				
	FUS		18.3	355.9	DSC	[2009MAT/SOU]
	SUB		97.3 ± 1.4	298	C	[2009MAT/SOU]
$C_9H_8O_2$	[621-82-9]	3-phenylacrylic acid				
	SUB	(380–404)	110.7 ± 6.3	392	ME	[2014DIB/RAE]
	SUB	(380–404)	113.8 ± 6.3	298	ME	[2014DIB/RAE]
$C_9H_8O_2S$	[2525-42-0]	phenyl propadienyl sulfone				
	SUB		105.4 ± 2.5			[1969MAC/STE, 1970COX/PIL]
$C_9H_8O_2S$	[2525-41-9]	phenyl prop-1-ynyl sulfone				
	SUB		95.4 ± 2.5		B	[1969MAC/STE, 1970COX/PIL]
$C_9H_8O_2S$	[2525-40-8]	phenyl prop-2-ynyl sulfone				
	SUB		105. ± 2.5		B	[1969MAC/STE, 1970COX/PIL]
$C_9H_8O_3$	[129-64-6]	*endo*-5-norbornene-2,3-dicarboxylic anhydride				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	TRS		15.73	367.2		
	FUS		3.71	437.2	DSC	[1967PIN/WIL]
	SUB		97 ± 4.2	298	MG	[1973ROG/QUA, 1977PED/RYL]
$C_9H_8O_3$	[2746-19-2]	*exo*-5-norbornene-2,3-dicarboxylic anhydride				
	FUS		21.77	416.2	DSC	[1967PIN/WIL]
$C_9H_8O_3$	[3162-29-6]	5-oxoethyl-1,3-benzodioxole				
	FUS		26.23	358.9	DSC	[2007MAT/SOU]
	SUB		104.4 ± 2.2	298	C	[2007MAT/SOU]
$C_9H_8O_3$	[29668-44-8]	2,3-dihydro-1,4-benzodioxin-6-carboxaldehyde				
	FUS		19.44	324.4	DSC	[2008MAT/SOU2]
	SUB		98.2 ± 1.4	298	C	[2008MAT/SOU2]
$C_9H_8O_3$	[20312-36-1]	L 3-phenyllactic acid				
	FUS (I)		30.5	395.3		
	FUS (II)		30.5	368.0		
	FUS (racemic)		26.5	366.6	DSC	[2011NAV/MAC]
$C_9H_8O_3$	[7400-08-0]	3-(4-hydroxyphenyl)propenoic acid (p-coumaric acid)				
	SUB		130.9 ± 3.3	298	ME	[2012DAV/HER]
$C_9H_8O_4$	[331-39-5]	3,4-dihydroxycinnamic acid (caffeic acid)				
	FUS		27.53	496.5	DSC	[2010PAR/LEE]
	SUB	(409–424)	170.2 ± 4.6	411	ME	[2006CHE/OJA]
$C_9H_8O_4$	[1679-64-7]	monomethyl terephthalate				
	FUS		39.73	493.7	DSC	[2013ZHA/XIA]
	FUS		37.68	492.5	DSC	[2005MON/SOU]
	SUB	(363–381)	121.0 ± 0.5	372.3	ME	[2005MON/SOU]
	SUB	(363–381)	124.1 ± 1.0	298	ME	[2005MON/SOU]
	SUB		124.9 ± 0.5		C	[1998MAK/KAB]
	SUB		130.4 ± 0.5		C	[1998MAK/KAB]
	SUB	(433–493)	72.1	448	A	[1987STE/MAL]
	SUB	(433–493)	82.8	473	GS	[1962KRA/BER]
$C_9H_8O_4$	[4376-18-5]	monomethyl phthalate				
	FUS		21.63	357.5	DSC	[2005MON/SOU]
	SUB	(335–355)	115.9 ± 0.6	345.3	ME	[2005MON/SOU]
	SUB	(335–355)	117.9 ± 0.8	298	ME	[2005MON/SOU]
$C_9H_8O_4$	[1877-71-0]	monomethyl isophthalate				
	FUS		36.5	466.7	DSC	[2005MON/SOU]
	SUB	(359–379)	122.6 ± 0.7	369.2	ME	[2005MON/SOU]
	SUB	(359–379)	125.6 ± 1.0	298	ME	[2005MON/SOU]
$C_9H_8O_4$	[50-78-2]	2-acetoxybenzoic acid (aspirin)				
	FUS		33.51	408.65	DSC	[2015MAT/MOR]
	FUS		33.85	407.7	DSC	[2015ALM/SOU]
	FUS (I)		30.9	410		
	FUS (II)		29.9	406	DSC	[2012BAG/RED]
	FUS		25.9	415.1	DSC	[2011GOR/WOJ]
	FUS		U19.1	408.8	DSC	[2010CAM/MIC]
Note: The value reported in [2010CAM/MIC] is not in agreement with other independently measured values						
	FUS		32.56	409.0	DSC	[2010HAH/GRA]
	FUS		29.17	409.2	DSC	[2004XU/SUN2]
	FUS		31.01	412.7	DSC	[2001PER/BAU, 2003PER/BAU]
	FUS		27.6	414 (Graph)	DSC	[2000JOH/PYK]
	FUS		29.8	414	DSC	[2000KIR]
	SUB	(341–361)	116.6 ± 1.0	351	ME	[2015ALM/SOU]
	SUB	(341–361)	118.7 ± 1.0	298	ME	[2015ALM/SOU]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_8O_4$	[6304-89-8] 3-acetoxybenzoic acid					
	FUS					[2015ALM/SOU]
	SUB	(344–362)	119.3 ± 0.7	353	ME	[2015ALM/SOU]
	SUB	(344–362)	121.1 ± 0.7	298	ME	[2015ALM/SOU]
$C_9H_8O_4$	[2345-34-8] 4-acetoxybenzoic acid					
	FUS		30.5	464.8	DSC	[2010MON/SAN]
	FUS		26.35	467.2	DSC	[1997YUA/ZHA]
	SUB	(351–373)	113.9 ± 0.3	314.4	ME	[2010MON/SAN]
	SUB(II)	(351–373)	116.1 ± 0.3	298	ME	[2010MON/SAN]
$C_9H_8O_4$	[2861-28-1] 1,3-benzodioxole-5-acetic acid (homopiperonylic acid)					
	FUS		24.94	401.7	DSC	[2004MAT/MON]
	SUB	(346–364)	120.1 ± 0.8	355	ME	[2004MAT/MON]
	SUB	(346–364)	122.9 ± 1.4	298	ME	[2004MAT/MON]
$C_9H_8O_4$	[3663-80-7] (*dl*)-1,4-benzodioxan-2-carboxylic acid					
	SUB		117.8 ± 2.1	298	C	[2008MAT/SOU]
$C_9H_8O_4$	[4316-23-8] 4-methylphthalic acid					
	FUS		20.3	425.9	DSC	[2012BOO/BAN]
$C_9H_9BrO_3$	[32019-08-2] (*dl*)-2-(*p*-bromophenoxy)propanoic acid					
	FUS		31.8	385		[1991CHI/BRA]
$C_9H_9BrO_3$	(*d*)-2-(*p*-bromophenoxy)propanoic acid					
	FUS		27.61	380		[1991CHI/BRA]
$C_9H_9BrO_3$	[40620-67-5] (*dl*)-3-(*m*-bromophenyl)-3-hydroxypropanoic acid					
	FUS		26.78	349		[1991CHI/BRA]
$C_9H_9BrO_3$	[40620-57-3] (*d*)-3-(*m*-bromophenyl)-3-hydroxypropanoic acid					
	FUS		23.85	350		[1991CHI/BRA]
$C_9H_9BrO_3$	[40620-68-6] (*dl*)-3-(*p*-bromophenyl)-3-hydroxypropanoic acid					
	FUS		28.87	371		[1991CHI/BRA]
$C_9H_9BrO_3$	[40620-58-4] (*d*)-3-(*p*-bromophenyl)-3-hydroxypropanoic acid					
	FUS		35.56	398		[1991CHI/BRA]
$C_9H_9ClO_3$	[25140-86-7] (*dl*)-2-(*o*-chlorophenoxy)propanoic acid					
	FUS		32.22	388		[1991CHI/BRA]
$C_9H_9ClO_3$	(*d*)-2-(*o*-chlorophenoxy)propanoic acid					
	FUS		26.78	369		[1991CHI/BRA]
$C_9H_9ClO_3$	[101-10-0] (*dl*)-2-(*m*-chlorophenoxy)propanoic acid					
	FUS		33.05	386		[1991CHI/BRA]
$C_9H_9ClO_3$	(*d*)-2-(*m*-chlorophenoxy)propanoic acid					
	FUS		29.71	367.5		[1991CHI/BRA]
$C_9H_9ClO_3$	(*dl*)-3-(*p*-chlorophenyl)-3-hydroxypropanoic acid					
	FUS		29.71	357		[1991CHI/BRA]
$C_9H_9ClO_3$	[40620-55-1] (*d*)-3-(*p*-chlorophenyl)-3-hydroxypropanoic acid					
	FUS		28.03	385		[1991CHI/BRA]
$C_9H_9ClO_3$	[40620-64-2] (*dl*)-3-(*m*-chlorophenyl)-3-hydroxypropanoic acid					
	FUS		23.85	340		[1991CHI/BRA]
$C_9H_9ClO_3$	[40620-54-0] (*d*)-3-(*m*-chlorophenyl)-3-hydroxypropanoic acid					
	FUS		28.03	368		[1991CHI/BRA]
$C_9H_9ClO_3$	[94-74-6] (4-chloro-*o*-tolyloxy)acetic acid					
	FUS		29.98	392.9	DSC	[1991ACR, 1990DON/DRE]
$C_9H_9ClO_4$	[76341-69-0] 2-chlorosyringaldehyde					
	V	(293–323)	77.7	308	CGC	[1999LEI/WAN2]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_9Cl_2NO$	[709-98-8]	3′, 4′-dichloropropionanilide				
	FUS		18.26	363.7	DSC	[1991ACR, 1990DON/DRE]
$C_9H_9FO_3$	[40620-61-9]	(*dl*)-3-(*m*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		20.5	290		[1991CHI/BRA]
$C_9H_9FO_3$	[40620-51-7]	(*d*)-3-(*m*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		24.27	311		[1991CHI/BRA]
$C_9H_9FO_3$		(*dl*)-3-(*o*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		27.2	342		[1991CHI/BRA]
$C_9H_9FO_3$	[40620-50-6]	(*d*)-3-(*o*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		22.59	348		[1991CHI/BRA]
$C_9H_9FO_3$	[40620-62-0]	(*dl*)-3-(*p*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		27.61	362		[1991CHI/BRA]
$C_9H_9FO_3$		(*d*)-3-(*p*-fluorophenyl)-3-hydroxypropanoic acid				
	FUS		30.96	381		[1991CHI/BRA]
$C_9H_9F_6NO_5$	[1548-45-4]	(*l*) *N,O*-bis(trifluoroacetal)-threonine methyl ester				
	V	(323–413)	72.5	338	A	[1987STE/MAL, 1999DYK/SVO, 1960WEY/KLI]
C_9H_9N	[603-76-9]	1-methylindole				
	FUS		10.9	276.5	DSC	[2014ALM/MON2]
	SUB	(267–275)	73.9 ± 0.3	298	Static	[2014ALM/MON2]
	V	(269–342)	61.8 ± 0.1	298	Static	[2014ALM/MON2]
	V	(296–338)	64.3 ± 0.4	298	GS	[2011VER/EME3]
	V		61.1 ± 3.1	298	CGC	[2010LIP/PLI]
	V		62.2 ± 1.6	298	C	[2009RIB/CAB2]
C_9H_9N	[95-20-5]	2-methylindole				
	FUS		15.72	329.4		[1997PEY/LET]
	SUB		88.7 ± 2.4	298	C	[2009RIB/CAB2]
C_9H_9N	[83-34-1]	3-methylindole (skatole)				
	SUB		90.4 ± 1.9	298	C	[2009RIB/CAB2]
	SUB	(288–333)	83.3	303	A	[1987STE/MAL]
	V	(368–540)	64.5	383	A	[1987STE/MAL, 1947STU]
C_9H_9N	[1823-91-2]	α-methylbenzylcyanide				
	V	(284–318)	60.8 ± 0.7	301	GS	[2000VER]
	V	(284–318)	60.9 ± 0.7	298	GS	[2000VER]
C_9H_9N	[21789-36-6]	2,6-dimethylbenzonitrile				
	SUB		83.9 ± 2.8	298	C	[1991ACR/TUC]
C_9H_9NO	[5676-58-4]	2,5-dimethylbenzoxazole				
	V		60.1 ± 1.3	298	C	[2013SIL/CIM3]
$C_9H_9NO_2$	[122-85-0]	4-acetomidobenzaldehyde				
	SUB	(328–346)	99.0	337	A	[1987STE/MAL, 1960AIH2]
$C_9H_9NO_3$	[89-52-1]	2-(acetylamino)benzoic acid				
	FUS		29.32	455.1	DSC	[2015ALM/SOU]
	FUS		49.4	458.4	DSC	[2014MAN/VOR]
	SUB	(367–389)	124.8 ± 1.3	378	ME	[2015ALM/SOU]
	SUB	(367–389)	127.6 ± 1.3	298	ME	[2015ALM/SOU]
	SUB	(345–393)	116 ± 1	298	GS	[2014MAN/VOR]
$C_9H_9NO_3$	[587-48-4]	3-(acetylamino)benzoic acid				
	FUS		42.28	522.2	DSC	[2015ALM/SOU]
	FUS		39.4	518.2	DSC	[2014MAN/VOR]
	SUB	(423–441)	152.6 ± 1.3	432	ME	[2015ALM/SOU]
	SUB	(423–441)	157.3 ± 1.3	298	ME	[2015ALM/SOU]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(407–443)	137 ± 1	298	GS	[2014MAN/VOR]
$C_9H_9NO_3$	[556-08-1]	4-(acetylamino)benzoic acid				
	FUS		34.2	535.3	DSC	[2014MAN/VOR]
	FUS		42.4	531.7	DSC	[2010MON/SAN]
	SUB	(395–440)	137 ± 1	298	GS	[2014MAN/VOR, 2014MAN/VOR2]
	SUB	(423–443)	144.2 ± 1.1	325	ME	[2010MON/SAN]
	SUB	(423–443)	148.9 ± 1.1	298	ME	[2010MON/SAN]
$C_9H_9NO_4$	[618-98-4]	3-nitrobenzoic acid, ethyl ester				
	V	(381–571)	65.1	396	A	[1987STE/MAL, 1947STU]
$C_9H_9NO_4$	[5251-93-4]	[(benzoylamino)oxy] acetic acid				
	FUS		31.46	416.9	DSC	[1991ACR, 1990DON/DRE]
$C_9H_9NO_4$	[5453-67-8]	dimethyl pyridine-2,6-dicarboxylate				
	SUB		113.5 ± 3.8	298	C	[2005MAT/MOR]
$C_9H_9NO_5$		(*dl*)-2-(*p*-nitrophenoxy)propanoic acid				
	FUS		32.22	411.4		[1991CHI/BRA]
$C_9H_9NO_5$		(*d*)-2-(*p*-nitrophenoxy)propanoic acid				
	FUS		20.92	362		[1991CHI/BRA]
C_9H_9NS	[95-26-1]	2,5-dimethylbenzothiazole				
	FUS		18.3	313.0	DSC	[2014SIL/CIM]
	SUB		84.9 ± 1.5	298	C	[2014SIL/CIM]
$C_9H_9N_3O_2$	[107023-66-5]	2-[methyl(4-nitrophenyl)amino]acetonitrile				
	FUS		22.96	388.8	DSC	[2006GAO/CHE]
$C_9H_9N_3O_2S_2$	[72-14-0]	4-amino-*N*-2-thiazolylbenzenesulfonamide (sulfathiazole)				
	FUS		27.4	474.2	DSC	[2015GAU/VAN]
	FUS		30.3	473	DSC	[2003MAR/AVI, 2002MAR/GOM, 2001MAR/GOM]
	FUS		24.1	473.4	DSC	[1983KHA]
$C_9H_9N_3O_6$	[602-96-0]	2,4,6-trinitromesitylene				
	SUB	(319–397)	103.6 ± 1.2		ME	[1987STE/MAL, 1978CUN/PAL]
C_9H_{10}	[496-11-7]	indane				
	TRS	(5–445)	0.15	73.83		
	FUS	(5–445)	8.55	221.8	AC	[2016CHI/STE]
	FUS	(15–320)	8.6	221.8		[1996DOM/HEA, 1961STU/SIN]
	V	(338–495)	48.9 ± 0.2	298	EB	[2016CHI/STE]
	V	(338–495)	46.3 ± 0.2	340	EB	[2016CHI/STE]
	V	(338–495)	44.0 ± 0.2	380	EB	[2016CHI/STE]
	V	(338–495)	41.7 ± 0.2	420	EB	[2016CHI/STE]
	V	(338–495)	39.1 ± 0.4	460	EB	[2016CHI/STE]
	V	(338–495)	37.8 ± 0.5	480	EB	[2016CHI/STE]
	V	(284–338)	49.0 ± 0.2	298	GS	[2011VER/EME]
	V	(374–466)	44.0	389	A	[1987STE/MAL]
	V	(382–451)	43.9 ± 0.1	382	C	[1981HOS/SCO3]
	V	(382–451)	41.9 ± 0.1	415	C	[1981HOS/SCO3]
	V	(382–451)	41.3 ± 0.1	424	C	[1981HOS/SCO3]
	V	(382–451)	40.4 ± 0.1	440	C	[1981HOS/SCO3]
	V	(382–451)	39.6 ± 0.1	451	C	[1981HOS/SCO3]
	V	(382–451)	49.0	298	C	[1981HOS/SCO3]
	V	(355–482)	45.0	370		[1976AMB/SPR]
C_9H_{10}	[611-15-4]	2-methylstyrene				
	V	(305–385)	47.9	320	A	[1987STE/MAL, 1953CLE/WIS]
C_9H_{10}	[100-80-1]	3-methylstyrene				
	V	(314–385)	47.5	329	A	[1987STE/MAL, 1953CLE/WIS]
C_9H_{10}	[622-97-9]	4-methylstyrene				
	V	(304–390)	47.6	319	A	[1987STE/MAL, 1953CLE/WIS]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_9H_{10}	[98-83-9]	α-methylstyrene				
	FUS		11.92	250.8		[1996DOM/HEA, 1971LEB/RAB]
	V	(274–314)	49.2 ± 0.3	294	GS	[1999VER6]
	V	(274–314)	48.9 ± 0.3	298	GS	[1999VER6]
	V	(331–467)	48.6 ± 0.4	298	EB	[1997STE/CHI2]
	V	(331–467)	45.9 ± 0.3	340	EB	[1997STE/CHI2]
	V	(331–467)	43.3 ± 0.3	380	EB	[1997STE/CHI2]
	V	(331–467)	40.6 ± 0.3	420	EB	[1997STE/CHI2]
	V	(331–467)	37.7 ± 0.5	460	EB	[1997STE/CHI2]
	V	(343–493)	44.3	358	A	[1987STE/MAL]
	V	(353–413)	44.8	368	A	[1987STE/MAL]
C_9H_{10}	[766-90-5]	*cis*-β-methylstyrene				
	V	(348–498)	44.8	363	A	[1987STE/MAL]
C_9H_{10}	[873-66-5]	*trans*-β-methylstyrene				
	V	(291–452)	46.4	306	A	[1987STE/MAL, 1947STU]
C_9H_{10}	[300-57-2]	allylbenzene				
	V	(274–313)	46.5 ± 0.2	294	GS	[1999VER6]
	V	(274–313)	46.3 ± 0.2	298	GS	[1999VER6]
$C_9H_{10}BrClN_2O_2$	[13360-45-7]	3-(4-bromo-3-chlorophenyl)-1-methoxy-1-methylurea				
	FUS		26.54	369.8	DSC	[1990DON/DRE]
$C_9H_{10}BrClO$	[27983-04-6]	1-(3-bromopropoxy)-4-chlorobenzene				
	FUS		25.98	315.9	DSC	[2013JIA/HU]
$C_9H_{10}ClNO_3$	[194085-75-1]	(1S)-1-(2-chlorophenyl)-1,2-ethanediol, 2-carbamate, (carisbamate)				
	FUS		33.0	409.6	DSC	[2009WU/MEH]
$C_9H_{10}ClN_5O_2$	[138261-41-3]	1-[(6-chloro-3-pyridinyl)methyl]-*N*-nitro-2-imidazolidinimine (imidacloprid)				
	FUS		24.7	416.8	DSC	[2011CAI/XIA]
	FUS		28.1	416.8	DSC	[2009CHE/ZHO]
$C_9H_{10}Cl_2N_2O$	[330-54-1]	3-(3,4-dichlorophenyl)-1,1-dimethylurea (diuron)				
	FUS		25.28	435.1	DSC	[2000ROD/VEC]
	FUS		30.47	430.5	DSC	[1990DON/DRE]
	FUS		33.89	429.7	DSC	[1969PLA/GLA]
	SUB		119 ± 0.6	393	C	[1997PFE/SAB]
	SUB		133.9 ± 0.7	298	C	[1997PFE/SAB]
$C_9H_{10}Cl_2N_2O_2$	[330-55-2]	*N′*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea (linuron)				
	FUS		26.56	365.8	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{10}F_2$	[146377-62-0]	1,1-difluoro-3-phenylpropane				
	V	(278–318)	53.3 ± 0.4	298	GS	[1997SCH/VER]
$C_9H_{11}N$	[155-09-9]	*trans*-2-phenylcyclopropylamine				
	V		60.3 ± 2.1	298	CGC	[2013GOB/RAT]
$C_9H_{10}N_2$	[1075-76-9]	*N*-(2-cyanoethyl)aniline				
	TRS	(83–353)	0.98	310.6		
	FUS	(83–353)	19.4	323.3	AC	[2005TIA/TAN]
$C_9H_{10}N_2$	[2876-08-6]	1,2-dimethylbenzimidazole				
	FUS		19.4	379.7	DSC	[2013ZAI/YER]
	SUB	(323–373)	92.5	348	GS	[2013ZAI/YER]
	SUB	(323–373)	94.0 ± 0.3	298	GS	[2013ZAI/YER]
	V		79.0 ± 0.5	298	S-F	[2013ZAI/YER]
$C_9H_{10}N_2$	[7035-68-9]	1-ethylbenzimidazole				
	V	(329–376)	76.1 ± 0.4	298	GS	[2012GAR/VER]
$C_9H_{10}N_2$	[53406-41-0]	*N*-amino-2-methylindole				
	FUS		25.55	384.6		[1997PEY/LET]
$C_9H_{10}N_2O$	[92-43-3]	1-phenyl-3-pyrazolidinone				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(327–348)	84.3	337.5	A	[1987STE/MAL, 1960AIH2]
$C_9H_{10}N_2O_3$	[612-45-3]	*N*-(4-methyl-2-nitrophenyl)acetamide				
	FUS (white crystals)		24.25	366.2		
	FUS (amber crystals)		20.97	356.7		
	FUS (yellow crystals)		22.37	364.2	DSC	[2001HE/STO]
$C_9H_{10}N_2O_3$	[6335-41-7]	2-(hydroxyimino)-*N*-(4-methoxyphenyl)acetamide				
	FUS		8.3	457.6	DTA	[1982CUE/SOL]
$C_9H_{10}N_2O_3$	[6335-42-8]	2-(hydroxyimino)-*N*-(2-methoxyphenyl)acetamide				
	FUS		27.8	424.6	DTA	[1982CUE/SOL]
$C_9H_{10}O$	[1746-13-0]	allyl phenyl ether				
	V	(349–456)	49.4	364	A	[1987STE/MAL]
$C_9H_{10}O$	[104-54-1]	cinnamyl alcohol				
	FUS		15.73	308.2	DSC	[1991CHI/BRA]
	V	(295–325)	68.1 ± 0.1	310	TG, DTA	[2002SOR/DOL]
	V	(310–328)	79.8	319	A	[1987STE/MAL]
	V	(373–523)	56.2	388	A	[1987STE/MAL]
$C_9H_{10}O$	[15764-16-6]	2,4-dimethylbenzaldehyde				
	V	(358–489)	57.4	373	A	[1987STE/MAL]
$C_9H_{10}O$	[1470-94-6]	5-hydroxyindane				
	V	(393–524)	55.4	408	A	[1987STE/MAL]
$C_9H_{10}O$	[577-16-2]	2′-methylacetophenone				
	V		58.9 ± 0.9	298	C	[2013AMA/RIB]
$C_9H_{10}O$	[122-00-9]	4′-methylacetophenone				
	V		60.7 ± 1.0	298	C	[2013AMA/RIB]
	V	(288–333)	59.6	303	A	[1987STE/MAL]
$C_9H_{10}O$	[93-53-8]	2-phenylpropionaldehyde				
	V	(364–517)	52.3 ± 0.2	360	EB	[2002STE/CHI5]
	V	(364–517)	49.4 ± 0.2	400	EB	[2002STE/CHI5]
	V	(364–517)	46.6 ± 0.3	440	EB	[2002STE/CHI5]
	V	(364–517)	43.4 ± 0.5	480	EB	[2002STE/CHI5]
$C_9H_{10}O$	[104-53-0]	3-phenylpropionaldehyde				
	V	(330–363)	67.5	345	A	[1987STE/MAL]
$C_9H_{10}O$	[103-79-7]	benzyl methyl ketone				
	V	(343–383)	56.1	298	CGC	[1995CHI/HOS]
	V	(343–383)	55.0	298	CGC	[1995CHI/HOS]
	V	(273–328)	53.5 ± 0.3	298		[1954NIC/SZA]
$C_9H_{10}O$	[93-55-0]	ethyl phenyl ketone (propiophenone)				
	V	(388–623)	52.1	403	A	[1987STE/MAL]
	V	(391–454)	44.4	406	EB, GS	[1965COL/COU]
$C_9H_{10}O$	[612-15-7]	2-vinylanisole				
	V	(314–467)	56.7	329	A	[1987STE/MAL, 1947STU]
$C_9H_{10}O$	[626-20-0]	3-vinylanisole				
	V	(316–471)	55.9	331	A	[1987STE/MAL, 1947STU]
$C_9H_{10}O$	[637-69-4]	4-vinylanisole				
	V	(318–478)	54.9	333	A	[1987STE/MAL, 1947STU]
$C_9H_{10}O$	[4407-36-7]	*trans*-3-phenyl-2-propen-1-ol				
	SUB	(288–307)	109.6	297.5	A	[1987STE/MAL]
	SUB		69.5		ME	[1954SER/VOI]
$C_9H_{10}O$	[493-08-3]	chroman				
	FUS	(12–442)	16.26	269.8	AC	[1996DOM/HEA, 1990CHI/ARC]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(293–535)	56.7 ± 0.1	298	IPM, EB	[1990CHI/ARC]
	V	(293–535)	55.2 ± 0.1	320	IPM, EB	[1990CHI/ARC]
	V	(293–535)	52.7 ± 0.1	360	IPM, EB	[1990CHI/ARC]
	V	(293–535)	50.2 ± 0.1	400	IPM, EB	[1990CHI/ARC]
	V	(293–535)	48.9 ± 0.1	440	IPM, EB	[1990CHI/ARC]
	V	(293–535)	45.1 ± 0.3	480	IPM, EB	[1990CHI/ARC]
	V	(293–535)	42.5 ± 0.5	520	IPM, EB	[1990CHI/ARC]
$C_9H_{10}O$	[493-05-0]	isochroman				
	FUS	(12–440)	16.75	277.5	AC	[1996DOM/HEA, 1990CHI/ARC]
	V	(295–536)	57.1 ± 0.1	298	IPM, EB	[1990CHI/ARC]
	V	(295–536)	55.6 ± 0.1	320	IPM, EB	[1990CHI/ARC]
	V	(295–536)	52.9 ± 0.1	360	IPM, EB	[1990CHI/ARC]
	V	(295–536)	50.3 ± 0.1	400	IPM, EB	[1990CHI/ARC]
	V	(295–536)	48.7 ± 0.1	440	IPM, EB	[1990CHI/ARC]
	V	(295–536)	45.3 ± 0.3	480	IPM, EB	[1990CHI/ARC]
	V	(295–536)	42.6 ± 0.5	520	IPM, EB	[1990CHI/ARC]
$C_9H_{10}O_2$	[89-71-4]	methyl *o*-toluate				
	FUS	(5–320)	12.47	228.8	AC	[2002BLO/PAU]
	FUS		12.5	228.8	AC	[1998MAK/KAB]
	V		57.3 ± 0.2	293	C	[1998MAK/KAB]
$C_9H_{10}O_2$	[99-36-5]	methyl *m*-toluate				
	FUS	(5–320)	17.14	270.6	AC	[2002BLO/PAU]
	FUS		21.15	269.9	AC	[1998MAK/KAB]
	V		60.3 ± 0.2	296	C	[1998MAK/KAB]
	V	(359–500)	54.8	374	A	[1987STE/MAL]
	V		53.5	388		[1974MUR/TUD]
$C_9H_{10}O_2$	[99-75-2]	methyl *p*-toluate				
	FUS		20.2	305.9	DSC	[2011ALM/MON]
	FUS	(5–320)	20.78	306.5	AC	[2002BLO/PAU]
	FUS		20.77	306.5	AC	[1998MAK/KAB]
	SUB	(269–301)	80.6 ± 0.1	285	Static	[2011ALM/MON]
	SUB	(269–301)	80.2 ± 0.1	298	Static	[2011ALM/MON]
	SUB		83.3 ± 0.3	298	C	[1998MAK/KAB]
	SUB	(403–493)	51.6	418		[1998SEM/WIL]
	V	(293–357)	57.8 ± 0.1	325	Static	[2011ALM/MON]
	V	(293–357)	59.8 ± 0.2	298	Static	[2011ALM/MON]
$C_9H_{10}O_2$	[122-46-3]	acetic acid, 3-tolyl ester				
	SUB	(274–317)	60.7	295	TE	[1947BAL, 1960JON]
[Note: The above value is likely an enthalpy of vaporization as the melting point temperature is listed as 285 K]						
	V	(385–480)	55.7	400	A, EB	[1987STE/MAL, 1969SHE/LAN]
$C_9H_{10}O_2$	[140-39-6]	acetic acid, 4-tolyl ester				
	V	(385–480)	55.9	400	A, EB	[1987STE/MAL, 1969SHE/LAN]
$C_9H_{10}O_2$	[579-74-8]	2-acetylanisole (2′-methoxyacetophenone)				
	V		66.7 ± 1.2	298	C	[2014AMA/MOR]
	V		56.5			[1986BAL/GNA]
$C_9H_{10}O_2$	[586-37-8]	3-acetylanisole (3′-methoxyacetophenone)				
	V		67.8 ± 1.2	298	C	[2014AMA/MOR]
$C_9H_{10}O_2$	[100-06-1]	4-acetylanisole (4′-methoxyacetophenone)				
	SUB		87.8 ± 1.4	298	C	[2014AMA/MOR]
	SUB	(276–300)	77.7		V	[1959AIH]
	SUB	(283–333)	93.7	308		[1954SER/VOI, 1960JON, 1987STE/MAL]
	V	(311–334)	66.5	322	A, ME	[1987STE/MAL, 1954SER/VOI]
$C_9H_{10}O_2$	[7216-18-4]	3,4-dihydro-2*H*-1,5-benzodioxepin				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		55.6			[1958CAS/FLE2]
$C_9H_{10}O_2$	[140-11-4]	benzyl acetate				
	V	(283–490)	55.5	298	A	[1987STE/MAL]
	V	(283–328)	60.4	305	ME	[1954SER/VOI]
$C_9H_{10}O_2$	[93-89-0]	ethylbenzoate				
	V	(283–332)	61.1 ± 0.3	298	GS	[2006VAS/VER]
	V	(369–531)	52.5 ± 0.2	380	EB	[2002STE/CHI2]
	V	(369–531)	49.6 ± 0.2	420	EB	[2002STE/CHI2]
	V	(369–531)	46.7 ± 0.3	460	EB	[2002STE/CHI2]
	V	(369–531)	43.6 ± 0.5	500	EB	[2002STE/CHI2]
	V	(344–440)	57.0	356	BG	[1988KAT2]
	V	(344–440)	50.5	419	BG	[1988KAT2]
	V	(288–333)	55.9	303	A	[1987STE/MAL]
	V	(358–487)	50.4	373	A	[1987STE/MAL]
	V	(317–486)	51.9	332		[1947STU]
$C_9H_{10}O_2$	[501-52-0]	3-phenylpropionic acid (hydrocinnamic acid)				
	FUS		15.61	321.2	DSC	[2001MON/HIL4]
	FUS		17.68	321.2		[1991ACR, 1983WEA]
	SUB	(305–315)	102.0 ± 0.7	310	ME	[2001MON/HIL4]
	SUB	(305–315)	102.4 ± 0.8	298	ME	[2001MON/HIL4]
	V	(375–553)	67.0	390	A	[1987STE/MAL, 1947STU]
$C_9H_{10}O_2$	[122-60-1]	(phenoxymethyl)oxirane				
	V	(400–532)	69.9 ± 0.7	298	EB	[1997STE/CHI]
	V	(400–532)	60.3 ± 0.5	400	EB	[1997STE/CHI]
	V	(400–532)	56.7 ± 0.4	440	EB	[1997STE/CHI]
	V	(400–532)	53.1 ± 0.4	480	EB	[1997STE/CHI]
	V	(400–532)	51.3 ± 0.5	500	EB	[1997STE/CHI]
	V	(400–532)	49.4 ± 0.6	520	EB	[1997STE/CHI]
	V	(343–373)	65.6 ± 0.1			[1976KUZ/MIR]
$C_9H_{10}O_2$	[101-41-7]	methyl phenylacetate				
	V	(333–433)	57.4	298	GC	[2005HOS/GRY]
$C_9H_{10}O_2$	[936-51-6]	2-phenyl-1,3-dioxolane				
	V	(285–333)	62.6 ± 0.7	298	GS	[2002VER]
	V	(298–333)	62.1 ± 0.3	316	GS	[1995VER/DOG]
$C_9H_{10}O_2$	[612-19-1]	2-ethylbenzoic acid				
	SUB	(298–313)	100.5	305.5	ME	[1987STE/MAL, 1976COL/JIM]
	SUB		101.1 ± 0.4	298	ME	[1984COL/JIM]
	SUB	(298–313)	100.7 ± 2.5	298	ME	[1976COL/JIM]
$C_9H_{10}O_2$	[619-20-5]	3-ethylbenzoic acid				
	SUB	(300–318)	99.1	309	ME	[1987STE/MAL, 1976COL/JIM]
	SUB		99.7 ± 0.4	298	ME	[1984COL/JIM]
	SUB	(300–318)	99.1 ± 2.5	298	ME	[1976COL/JIM]
$C_9H_{10}O_2$	[619-64-7]	4-ethylbenzoic acid				
	FUS		13.2	380.2	DSC	[2000KAN/SAM]
	FUS		14.06	386.2	DSC	[1991CHI/BRA]
	SUB	(321–335)	101.2 ± 0.8	298	ME	[2004MON/ALM]
	SUB	(310–329)	98.2	319.5	ME	[1987STE/MAL, 1976COL/JIM]
	SUB		98.9 ± 0.2	298	ME	[1984COL/JIM]
	SUB	(311–330)	97.6 ± 0.2	321	ME	[1984COL/JIM]
	SUB	(320–329)	97.5 ± 2.5	298	ME	[1976COL/JIM]
$C_9H_{10}O_2$	[603-79-2]	2,3-dimethylbenzoic acid				
	FUS		18.3	417.6	CVC	[1996BEL/UFN]
	SUB	(316–337)	102.3 ± 0.4	326	ME	[1984COL/JIM2]
	SUB	(316–337)	104.6 ± 0.4	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[611-01-8]	2,4-dimethylbenzoic acid				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(312–331)	102.7 ± 0.3	321	ME	[1984COL/JIM2]
	SUB	(312–331)	103.5 ± 0.3	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[610-72-0]	2,5-dimethylbenzoic acid				
	SUB	(315–334)	103.6 ± 0.6	324	ME	[1984COL/JIM2]
	SUB	(315–334)	105.0 ± 0.6	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[632-46-2]	2,6-dimethylbenzoic acid				
	SUB	(309–324)	98.2 ± 0.2	317	ME	[1984COL/JIM2]
	SUB	(309–324)	99.1 ± 0.2	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[632-46-2]	3,4-dimethylbenzoic acid				
	SUB	(325–347)	104.5 ± 0.3	336	ME	[1984COL/JIM2]
	SUB	(325–347)	106.4 ± 0.3	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[499-06-9]	3,5-dimethylbenzoic acid				
	FUS		22.6	442.9	CVC	[1996BEL/UFN]
	SUB	(322–341)	100.8 ± 0.3	332	ME	[1984COL/JIM2]
	SUB	(322–341)	102.3 ± 0.3	298	ME	[1984COL/JIM2]
$C_9H_{10}O_2$	[122-60-1]	phenyl glycidyl ether				
	FUS		17.32	279.8		[1988LEB/BYK]
$C_9H_{10}O_2$	[935-92-2]	2,3,5-trimethyl-1,4-benzoquinone				
	V	(393–450)	49.9	408	EB	[2004TAN/LI]
$C_9H_{10}O_2S$	[5535-52-4]	*p*-tolyl vinyl sulfone				
	FUS		10.88	340.4		[1969MAC/MCN]
	SUB		82.4 ± 2.5		B	[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_9H_{10}O_3$	[118-61-6]	ethyl salicylate				
	V	(288–333)	59.2	303	A	[1987STE/MAL]
	V	(334–505)	55.2	349	A	[1987STE/MAL]
$C_9H_{10}O_3$	[623-20-1]	2-furanacrylic acid, ethyl ester				
	V	(428–500)	56.8	443	A	[1987STE/MAL]
$C_9H_{10}O_3$	[121-98-2]	methyl 4-methoxybenozate				
	SUB	(292–320)	88.0 ± 0.2	306	Static	[2014ALM/CUN]
	SUB	(292–320)	87.7 ± 0.2	298	Static	[2014ALM/CUN]
	V	(310–358)	67.0 ± 0.1	334	Static	[2014ALM/CUN]
	V	(310–358)	69.3 ± 0.3	298	Static	[2014ALM/CUN]
	V	(382–472)	61.1	397	EB	[1985SCH/BRU]
$C_9H_{10}O_3$	[120-47-8]	ethyl 4-hydroxybenzoate				
	FUS		25.76	388.7	DSC	[2014YAN/RAS]
	FUS		26.5	388.5	DSC	[2011UMN/CHI]
	FUS		27.9	389.2	DSC	[2008WAS/HOL]
	FUS		32.49	388.9	DSC	[2008NIC/BEL]
	FUS		29.8	387.0	DSC	[2004STU/WIT]
	FUS		26.4	389.0	DSC	[1999GIO/BET]
	SUB	(313–326)	100.9 ± 0.7	298	GS	[2005PER/ROD]
	V		84.0 ± 0.5	298	CGC	[2011UMN/CHI]
	V		75.0		TGA	[2002CHA/DOL]
	V		72.6		TGA	[2001CHA/DOL]
$C_9H_{10}O_3$	[35438-32-5]	*cis*,*cis*-3-methyl-4-cyclohexene-1,2-dicarboxylic acid anhydride				
	V	(325–525)	49.5 ± 1.0			[1984NUR/MEK]
$C_9H_{10}O_3$	[3425-89-6]	4-methyl-4-cyclohexene-1,2-dicarboxylic anhydride				
	FUS	(80–361)	17.67	335.5	AC	[2005LU/TAN]
$C_9H_{10}O_3$	[121-32-4]	3-ethoxy-4-hydroxybenzadehyde (ethyl vanillin)				
	FUS		23.1	349.8	DSC	[2008TEM/ROU]
	SUB	(296–338)	101.5	311		[1987STE/MAL, 1957LIT, 1960JON]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{10}O_3$	[120-14-9]	3,4-dimethoxybenzaldehyde				
	FUS		20.3	317	DSC	[2008TEM/ROU]
$C_9H_{10}O_3$		(*dl*)-3-phenyl-3-hydroxypropanoic acid				
	FUS		29.71	366		[1991CHI/BRA]
$C_9H_{10}O_3$	[2768-42-5]	(*d*)-3-phenyl-3-hydroxypropanoic acid				
	FUS		32.64	391		[1991CHI/BRA]
$C_9H_{10}O_3$	[940-31-8]	(*dl*)-2-phenoxypropionic acid				
	FUS		33.05	388		[1991CHI/BRA]
$C_9H_{10}O_3$		(*d*)-2-phenoxypropionic acid				
	FUS		22.59	359		[1991CHI/BRA]
$C_9H_{10}O_3$	[104-01-8]	4-methoxyphenylacetic acid				
	FUS		21.8	358.1		[1991ACR, 1979ARM/JAM]
$C_9H_{10}O_3$	[501-97-3]	4-hydroxyphenylpropionic acid				
	FUS		28.9	402.5		[1991ACR, 1979ARM/JAM]
$C_9H_{10}O_3$	[619-86-3]	4-ethoxybenzoic acid				
	FUS		35.07	471.8	DSC	[2010FON/SAN]
	FUS		28.9	465.2	DSC	[2000KAN/SAM]
	FUS		29.4	472.8		[1991ACR, 1979ARM/JAM]
	SUB	(349–373)	119.4 ± 0.5	361	ME	[2010FON/SAN]
	SUB	(349–373)	121.9 ± 1.0	298	ME	[2010FON/SAN]
	SUB		123.3 ± 0.9	298		[2010RIB/FER3]
$C_9H_{10}O_3$	[3663-82-9]	1,4-benzodioxan-2-hydroxymethyl				
	FUS		28.78	362.4	DSC	[2008MAT/SOU]
	SUB		106.9 ± 0.8	298	C	[2008MAT/MIR2]
$C_9H_{10}O_3$	[53282-12-5]	ethyl *trans*-b-(2-furyl)acrylate				
	V	(428–500)	56.8	464		[1956FRO/LOE]
$C_9H_{10}O_4$	[1521-38-6]	2,3-dimethoxybenzoic acid				
	SUB	(336–356)	115.1 ± 0.3	346	ME	[1985COL/JIM]
	SUB	(336–356)	116.6 ± 0.3	298	ME	[1985COL/JIM]
$C_9H_{10}O_4$	[91-52-1]	2,4-dimethoxybenzoic acid				
	SUB	(346–367)	120.5 ± 0.4	357	ME	[1985COL/JIM]
	SUB	(346–367)	123.4 ± 0.4	298	ME	[1985COL/JIM]
$C_9H_{10}O_4$	[1466-76-8]	2,6-dimethoxybenzoic acid				
	SUB	(335–378)	118.4 ± 0.4	367	ME	[1985COL/JIM]
	SUB	(335–378)	121.7 ± 0.4	298	ME	[1985COL/JIM]
$C_9H_{10}O_4$	[93-07-2]	3,4-dimethoxybenzoic acid				
	FUS		29.60	453.12	DSC	[2013LI/LU]
	SUB	(359–378)	126.1 ± 0.6	369	ME	[1985COL/JIM]
	SUB	(359–378)	129.8 ± 0.6	298	ME	[1985COL/JIM]
$C_9H_{10}O_4$	[2785-98-0]	2,5-dimethoxybenzoic acid				
	SUB	(324–342)	113.3 ± 0.7	333	ME	[1996JIM/ROU]
	SUB	(324–342)	116.1 ± 0.7	298	ME	[1996JIM/ROU]
$C_9H_{10}O_4$	[1132-21-4]	3,5-dimethoxybenzoic acid				
	SUB	(356–376)	124.5 ± 0.6	369	ME	[1985COL/JIM]
	SUB	(356–376)	127.1 ± 0.6	298	ME	[1985COL/JIM]
$C_9H_{10}O_4$		(±)-bicyclo[2.2.1]hept-5-ene-*trans*-2,3-dicarboxylic acid				
	FUS		29.8	458.2	DSC	[1971PIN/TON]
$C_9H_{10}O_4$	[32216-02-7]	(+)-bicyclo[2.2.1]hept-5-ene-*trans*-2,3-dicarboxylic acid				
	FUS		22.5	449.2	DSC	[1971PIN/TON]
$C_9H_{10}O_4$		(*dl*)-erythro phenylglyceric acid				
	FUS		31.38	395		[1991CHI/BRA]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{10}O_4$		(*d*)-erythro phenylglyceric acid				
	FUS		23.43	371.5		[1991CHI/BRA]
$C_9H_{10}O_5$	[613-75-2]	2-(diacetoxymethyl)furan				
	SUB		109.6 ± 2.5			[1980BAL/LEB, 1986PED/NAY]
$C_9H_{10}O_5$	[530-57-4]	3,5-dimethoxy-4-hydroxybenzoic acid (syringic acid)				
	FUS		28.1	482.5	DSC	[2012BOO/BAN]
	FUS		33.7	480.3	DSC	[2009QUE/MOT]
$C_9H_{11}Br$	[7073-94-1]	1-bromo-2-isopropylbenzene				
	V	(404–484)	48.4	419		[1999DYK/SVO]
	V	(378–528)	49.8	393	A	[1987STE/MAL, 1970DYK/VAN]
$C_9H_{11}Br$	[586-61-8]	1-bromo-4-isopropylbenzene				
	V	(362–493)	51.1	377		[1999DYK/SVO]
	V	(388–528)	50.4	403	A	[1987STE/MAL, 1970DYK/VAN]
$C_9H_{11}Br$	[3575-19-7]	cumyl bromide				
	V	392	58.0	298	CGC	[2002KRA/VAS]
$C_9H_{11}BrN_2O$	[3060-89-7]	*N′*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea				
	FUS		24.44	368.3	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{11}BrO_2$	[109417-60-9]	1-bromo-2-(2-methoxyethoxy)benzene				
	V	(302–368)	64.5 ± 0.3	298	GS	[2006DAB/SPO]
$C_9H_{11}BrO_3$	[63834-58-2]	(racemic) 3-(2-bromophenoxy)propane-1,2-diol				
	FUS		33.4	353.5	DSC	[2006ZAK/LAZ]
$C_9H_{11}BrO_3$	[386702-67-6]	(*R*)-3-(2-bromoophenoxy)propane-1,2-diol				
	FUS		38.4	374.3	DSC	[2006ZAK/LAZ]
$C_9H_{11}Cl$	[2077-13-6]	1-chloro-2-isopropylbenzene				
	V	(341–465)	48.1	356		[1999DYK/SVO]
	V	(363–508)	47.7	378	A	[1987STE/MAL, 1970DYK/VAN]
$C_9H_{11}Cl$	[2621-46-7]	1-chloro-4-isopropylbenzene				
	V	(307–472)	51.4	322		[1999DYK/SVO]
	V	(368–513)	48.5	383	A	[1987STE/MAL, 1970DYK/VAN]
$C_9H_{11}Cl$	[934-53-2]	cumyl chloride				
	V	392	54.7	298	CGC	[2002KRA/VAS]
$C_9H_{11}ClN_2O$	[150-68-5]	3-(4-chlorophenyl)-1,1-dimethylurea (monuron)				
	FUS		29.3	447.6		[2004KON/TAN2]
	FUS		29.46	447.6	DSC	[1991ACR, 1990DON/DRE]
	SUB	(303–379)	114.6 ± 4.9	341	ME, C	[1987STE/MAL, 1972WIE]
$C_9H_{11}ClN_2O_2$	[1746-81-2]	*N′*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea				
	FUS		22.54	353.4	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{11}ClO_2$	[67146-43-4]	propylene glycol mono(4-chlorophenyl) ether				
	V	(417–542)	64.9	432	A	[1987STE/MAL, 1999DYK/SVO]
$C_9H_{11}ClO_3$	[93-65-2]	2-(4-chloro-2-methylphenoxy)propanoic acid				
	FUS		26.43	366.2	DSC	[1990DON/DRE]
$C_9H_{11}ClO_3$	[5112-21-0]	(racemic) 3-(2-chlorophenoxy)propane-1,2-diol				
	FUS		29.0	344.9	DSC	[2006ZAK/LAZ]
$C_9H_{11}ClO_3$	[153547-60-5]	(*R*)-3-(2-chlorophenoxy)propane-1,2-diol				
	FUS		38.2	363.3	DSC	[2006ZAK/LAZ]
$C_9H_{11}ClS$	[4332-51-8]	benzyl (2-chloroethyl) sulfide				
	V	(293–333)	52.3	308	A, GS	[1987STE/MAL, 1948RED/CHA, 1999DYK/SVO]
$C_9H_{11}Cl_3NO_3PS$	[330-55-2]	*O,O*-diethyl-*O*-(3,5,6-trichloro-2-pyridyl)phosphorothioate				
	FUS		24.53	315	DSC	[1991ACR, 1990DON/DRE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{11}Cl_3NO_4P$	[5598-15-2]	3,5,6-trichloro-2-pyridyl diethylphosphate (chlorpyrifos oxon)				
	SUB	(373–403)	79.0	388	GC	[2007GOE/MCC]
$C_9H_{11}FO_3$	[399-28-0]	(racemic) 3-(2-fluorophenoxy)propane-1,2-diol				
	FUS		20.5	318.2	DSC	[2006ZAK/LAZ]
$C_9H_{11}FO_3$	[912556-93-5]	(*R*)-3-(2-fluorophenoxy)propane-1,2-diol				
	FUS		26.0	333.7	DSC	[2006ZAK/LAZ]
$C_9H_{11}F_5O_2$	[24262-73-5]	pentafluoropropionic acid, cyclohexyl ester				
	V	(335–428)	46.4	350	A, EB	[1987STE/MAL, 1969SHE/LAN]
$C_9H_{11}F_9$	[1190430-21-7]	1,1,1,2,2,3,3,4,4-nonafluorononane				
	V	(278–328)	45.7 ± 0.1	298	Static	[2015MOR/DAS]
$C_9H_{11}I$	[54290-22-1]	cumyl iodide				
	V	392	63.3	298	CGC	[2002KRA/VAS]
$C_9H_{11}IO_3$	[55169-06-7]	(racemic) 3-(2-iodophenoxy)propane-1,2-diol				
	FUS		34.2	362.5	DSC	[2006ZAK/LAZ]
$C_9H_{11}IO_3$	[912556-94-6]	(*R*)-3-(2-iodophenoxy)propane-1,2-diol				
	FUS		37.4	383.5	DSC	[2006ZAK/LAZ]
$C_9H_{11}N$	[635-46-1]	1,2,3,4-tetrahydroquinoline				
	FUS	(12–441)	11.81	290	AC	[1991ACR, 1989STE/CHI3]
	V	(323–572)	65.3 ± 0.2	298	IPM, EB	[1989STE/CHI3]
	V	(323–572)	62.1 ± 0.1	340	IPM, EB	[1989STE/CHI3]
	V	(323–572)	59.2 ± 0.1	380	IPM, EB	[1989STE/CHI3]
	V	(323–572)	56.3 ± 0.1	420	IPM, EB	[1989STE/CHI3]
	V	(323–572)	53.5 ± 0.2	460	IPM, EB	[1989STE/CHI3]
	V	(323–572)	50.8 ± 0.3	500	IPM, EB	[1989STE/CHI3]
	V	(323–572)	47.9 ± 0.4	540	IPM, EB	[1989STE/CHI3]
$C_9H_{11}N$	[10500-57-9]	5,6,7,8-tetrahydroquinoline				
	FUS	(5–442)	9.08	222.7	AC	[1991ACR, 1989STE/CHI3]
	V	(303–544)	57.6 ± 0.2	298	IPM, EB	[1989STE/CHI3]
	V	(303–544)	56.1 ± 0.1	320	IPM, EB	[1989STE/CHI3]
	V	(303–544)	53.6 ± 0.1	360	IPM, EB	[1989STE/CHI3]
	V	(303–544)	51.1 ± 0.1	400	IPM, EB	[1989STE/CHI3]
	V	(303–544)	48.7 ± 0.3	440	IPM, EB	[1989STE/CHI3]
	V	(303–544)	46.2 ± 0.4	480	IPM, EB	[1989STE/CHI3]
	V	(303–544)	43.5 ± 0.5	520	IPM, EB	[1989STE/CHI3]
$C_9H_{11}N$	[824-21-5]	*N*-methylindoline				
	V	(296–338)	64.2 ± 0.4	298	GS	[2011VER/EME]
$C_9H_{11}NO$	[579-10-2]	*N*-methylacetanilide				
	V	(383–519)	60.1	398	A	[1987STE/MAL]
	V	(377–526)	56.7	392		[1947STU]
$C_9H_{11}NO$	[120-66-1]	*N*-(2-methylphenyl)acetamide				
	SUB	(315–340)	96.8	327.5		[1987STE/MAL, 1960AIH2]
$C_9H_{11}NO$	[103-89-9]	*N*-(4-methylphenyl)acetamide				
	SUB	(331–350)	99.0	341		[1960AIH2]
$C_9H_{11}NO$	[611-74-5]	*N,N*-dimethylbenzamide				
	FUS		21.22	316.9	DSC	[2010ALM/MON]
	SUB	(297–315)	88.6 ± 0.3	306	Static	[2010ALM/MON]
	SUB	(297–315)	88.8 ± 0.3	298	Static	[2010ALM/MON]
	SUB	(289–305)	89.7 ± 0.3	298		[1995ABB/JIM]
	V	(302–362)	68.7 ± 0.1	332	Static	[2010ALM/MON]
	V	(302–362)	72.5 ± 0.1	298	Static	[2010ALM/MON]
Note: VP measurements reported in [2010ALM/MON] include those for the subcooled liquid						
	V		61.9 ± 2.9			[1978BEA/LEE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{11}NO$	[120-66-1]	2-(acetylamino)toluene				
	FUS		21.7	382.7	DSC	[2003HUA, 2005HUA/TAN]
$C_9H_{11}NO$	[103-89-9]	4-(acetylamino)toluene				
	FUS		29.4	421.3	DSC	[2012UMN/CHI]
	FUS		28.93	424	DSC	[2003HUA, 2005HUA/TAN]
	V		86.2 ± 3.2	298	CGC	[2012UMN/CHI]
$C_9H_{11}NO$	[100-10-7]	4-(*N*,*N*-dimethylamino)benzaldehyde				
	FUS	(80–360)	19.07	346.2	AC	[1999MEN/LIA]
$C_9H_{11}NO_2$	[6526-72-3]	1-nitro-2-isopropylbenzene				
	V	(278–323)	65.5 ± 0.7	301	GS	[2000VER/HEI]
	V	(278–323)	65.6 ± 0.7	298	GS	[2000VER/HEI]
$C_9H_{11}NO_2$	[87-25-2]	ethyl 2-aminobenzoate (ethyl anthranilate)				
	V	(433–593)	59.6	448	A	[1987STE/MAL]
$C_9H_{11}NO_2$	[94-09-7]	ethyl 4-aminobenzoate (benzocaine)				
	FUS (II)		23.3	362.4	DSC	[2013GAN/BAR]
	FUS		17.81	362.7	DTA	[2013FUL/VLA]
	FUS		22.55	362	DSC	[2010BAI/VAN]
	FUS		25.65	362.6	DSC	[2010MIY/KHA]
	FUS		24.6	362.6	DSC	[2008WAS/HOL]
	FUS		21.4	362.5	DSC	[2004STU/WIT]
	FUS		21.16		DSC	[1995YAM/KIT]
	FUS		23.56	362.8		[1991ACR, 1990MAN/AHU, 1989NEA/FLY, 1990NEA/FLY]
	SUB		112.9 ± 4.3	298	V+ F	[2013GOB/GUT]
	V		91.8 ± 4.2	298	CGC	[2013GOB/GUT]
$C_9H_{11}NO_2$	[101-99-5]	ethyl carbanilate				
	V	(380–510)	84.2	395	A	[1987STE/MAL, 1947STU]
$C_9H_{11}NO_2$	[603-71-4]	2,4,6-trimethylnitrobenzene				
	SUB		78.6 ± 1.0	298	C	[1993ACR/TUC2]
$C_9H_{11}NO_2$	[63-91-2]	L-(*l*)-phenylalanine				
	SUB		158.3 ± 2.0	418	ME,MS	[2014TYU/KRA]
	SUB		160.6 ± 3.5	298	ME,MS	[2014TYU/KRA]
	SUB		145 ± 6	439	ME,MS	[2013TYU/BAD]
	SUB	(342–442)	U 90 ± 6.3	392	LE	[1977GAF/PIE]
	SUB	(451–469)	154.0 ± 0.8	455	ME	[1965SVE/CLY, 1970COX/PIL, 1987STE/MAL, 1964CLY/SVE]
$C_9H_{11}NO_2$	[101-99-5]	ethyl phenyl carbamate				
	FUS		16.27	326		[1971PRI]
$C_9H_{11}NO_2$	[51-66-1]	*p*-methoxyacetanilide				
	FUS		25.4	398.2	DSC	[2012UMN/CHI]
	FUS		27.82	400.3		[1990MAN/AHU]
	V		92.0 ± 3.4	298	CGC	[2012UMN/CHI]
	V		85.7	466	I	[1943CRA]
$C_9H_{11}NO_2$	[610-16-2]	2-(dimethylamino)benzoic acid				
	FUS		14.1	341.9	DSC	[2012BOO/BAN]
$C_9H_{11}NO_2$	[99-64-9]	3-(dimethylamino)benzoic acid				
	FUS		21.8	423.3	DSC	[2012BOO/BAN]
$C_9H_{11}NO_2$	[619-84-1]	4-(dimethylamino)benzoic acid				
	FUS		34.1	512.5	DSC	[2010MON/SAN]
	SUB	(369–385)	117.4 ± 0.5	309	ME	[2010MON/SAN]
	SUB	(369–385)	120.3 ± 0.5	298	ME	[2010MON/SAN]
$C_9H_{11}NO_2S_2$	[949171-64-6]	*N*-theonylthiocarbamic-*O*-propyl ester				
	FUS		26.1	370.1	DSC	[2007RIB/MON]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB		136.5 ± 1.8	298	C	[2007RIB/MON]
$C_9H_{11}NO_3$	[60-18-4]	(*l*)-tyrosine				
	SUB		200.0 ± 1.8	471	ME,MS	[2014TYU/KRA]
	SUB		202.4 ± 3.6	298	ME,MS	[2014TYU/KRA]
	SUB	(412–512)	101 ± 8	462	LE	[1977GAF/PIE]
$C_9H_{11}NS$	[15482-60-7]	*N,N*-dimethylbenzenecarbothioamide				
	FUS		25.1			[1978BEA/LEE]
	SUB		94.8 ± 2.0	298	C	[1989RIB/SOU]
	V		73.6 ± 4.0			[1978BEA/LEE]
$C_9H_{11}NS$	[40780-82-3]	*N*-methylthiobenzimidate				
	V		66.1 ± 3.3			[1978BEA/LEE]
$C_9H_{11}O_4P$	[14657-64-8]	2-carboxyethyl(phenyl)phosphinic acid				
	FUS		33.58	432.66	DSC	[2010GUO/WAN2]
C_9H_{12}	[38451-18-2]	*cis*-bicyclo[4.3.0]nona-3,7-diene				
	V	(356–429)	41.8	371	A	[1987STE/MAL]
	V		44.9	298		[1972KOZ/TIM]
C_9H_{12}	[28304-66-7]	(*Z*)-5-ethylidene-2-norbornene				
	V	(315–462)	44.3 ± 0.3	298	EB	[1997STE/CHI]
	V	(315–462)	43.0 ± 0.3	320	EB	[1997STE/CHI]
	V	(315–462)	40.5 ± 0.3	360	EB	[1997STE/CHI]
	V	(315–462)	38.0 ± 0.3	400	EB	[1997STE/CHI]
	V	(315–462)	35.2 ± 0.5	440	EB	[1997STE/CHI]
C_9H_{12}	[3048-64-4]	5-ethylidene-2-norbornene				
	V	(314–420)	42.3 ± 0.3	298	EB	[1996STE/CHI2]
C_9H_{12}	[28304-67-8]	*trans*-5-ethylidene-2-norbornene				
	V	(346–416)	41.2	361	A	[1987STE/MAL]
C_9H_{12}	[611-14-3]	2-ethyltoluene				
	V		46.9	298		[1994RUZ/ZAB]
	V		47.7	298		[1971WIL/ZWO]
	V	(353–443)	43.6	368	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{12}	[620-14-4]	3-ethyltoluene				
	V		46.6	298		[1994RUZ/ZAB]
	V		46.9	298		[1971WIL/ZWO]
	V	(348–438)	43.4	363	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{12}	[622-96-8]	4-ethyltoluene				
	V		46.5	298		[1994RUZ/ZAB]
	V		46.6	298		[1971WIL/ZWO]
	V	(349–442)	43.2	364	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{12}	[98-82-8]	isopropylbenzene				
	FUS		7.32	177.1	AC	[1973KIS/SUG]
	V		45.1	298		[1994RUZ/ZAB]
	V	(349–426)	41.2	364		[1989CEP/GON]
	V	(339–433)	42.1	354	A	[1987STE/MAL]
	V		45.1 ± 0.1	298	C	[1982FUC/HAL]
	V		44.0	298		[1975KUS/SAI]
	V		45.1	298		[1971WIL/ZWO]
	V		45.1	298	C	[1947OSB/GIN]
	V	(343–426)	41.9	358	MM	[1949FOR/NOR, 1945WIL/TAY]
C_9H_{12}	[103-65-1]	propylbenzene				
	FUS		9.27	173.6		[1991ACR, 1965MES/TOD2]
	V		46.2	298		[1994RUZ/ZAB]
	V	(340–391)	43.8	355		[1986PAU/KRU]
	V		45.0	298		[1975KUS/SAI]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		46.2	298		[1971WIL/ZWO]
	V		46.2	298	C	[1947OSB/GIN]
	V	(348–433)	42.7	363	A, MM	[1987STE/MAL, 1949FOR/NOR, 1987STE/MAL, 1964CLY/SVE]
C_9H_{12}	[3048-65-5]	3a,4,7,7a-tetrahydro-1*H*-indene				
	V	(338–440)	42.3	353	A	[1987STE/MAL]
C_9H_{12}	[526-73-8]	1,2,3-trimethylbenzene				
	TRS		0.66	218.7		
	TRS		1.33	230.3		
	FUS		8.18	247.8		[1996DOM/HEA, 1955TAY/JOH]
	V		49.0	298		[1994RUZ/ZAB]
	V		48.8	298		[1974KUS/SAI]
	V	(363–456)	44.8	378	A	[1987STE/MAL, 1949FOR/NOR]
	V		49.1	298		[1971WIL/ZWO]
	V	(259–270)	42.5	265	RG	[1948HOP/SEA]
	V		49.1	298	C	[1947OSB/GIN]
C_9H_{12}	[95-63-6]	1,2,4-trimethylbenzene				
	FUS		13.19	229.3		[1996DOM/HEA, 1957PUT/KIL]
	FUS		12.65	228.6	C	[1996DOM/HEA, 1931HUF/PAR]
	V		48.0	298		[1994RUZ/ZAB]
	V		47.2	298		[1974KUS/SAI]
	V		47.9	298		[1971WIL/ZWO]
	V	(357–450)	44.1	372	A	[1987STE/MAL, 1949FOR/NOR]
	V	(257–267)	46.5	262	RG	[1948HOP/SEA]
	V		47.9	298	C	[1947OSB/GIN]
C_9H_{12}	[108-67-8]	1,3,5-trimethylbenzene (mesitylene)				
	TRS		0.33	91.3		
	TRS		0.07	188.5		[2000YAM/TAN]
	FUS		9.51	228.4		[1996DOM/HEA, 1991RAD/RAD]
	V		47.6	298		[1994RUZ/ZAB]
	V	(296–342)	46.2 ± 1.3	319	MM	[1991WIB/WAL]
	V	(296–342)	47.5 ± 2.1	298	MM	[1991WIB/WAL]
	V	(348–424)	43.5	363		[1989PAR/GME]
	V	(249–356)	49.7	264	A	[1987STE/MAL]
	V		47.5 ± 0.1	298	C	[1987AN/HU]
	V	(273–299)	47.7	286	MM	[1981CHI/HYM]
	V	(354–445)	43.9	369	A	[1987STE/MAL, 1949FOR/NOR]
	V		47.5	298		[1971WIL/ZWO]
	V	(255–268)	51.1	262	RG	[1948HOP/SEA]
	V		47.5	298	C	[1947OSB/GIN]
C_9H_{12}	[3048-64-4]	5-vinyl-2-norbornene				
	V	(301–410)	42.0	316	A	[1987STE/MAL]
	V	(354–409)	48.9	369	A	[1987STE/MAL]
C_9H_{12}	[31561-59-8]	trispiro[2.0.2.0.2.0]nonane ([3] rotane)				
	FUS		14.14	312.1	DSC	[1995BEC/RUC]
	V	(273–308)	59.2 ± 0.5		GS	[1995BEC/RUC]
C_9H_{12}	[50874-24-3]	trispiro[2.0.0.2.1.1]nonane ([3] triangulane)				
	V	(275–314)	46.3 ± 0.5		GS	[1995BEC/RUC]
$C_9H_{12}ClN_5$	[22936-86-3]	6-chloro-*N*-cyclopropyl-*N′*-(1-methylethyl)-1,3,5-triazine-2,4-diamine				
	FUS		28.76	441.6	DSC	[1990DON/DRE]
$C_9H_{12}F_3N_3O_5$	[651-18-3]	*N*-[*N*-(*N*-[trifluoroacetyl]glycyl)glycyl]glycine methyl ester				
	SUB	(343–433)	133.4	358		[1987STE/MAL, 1960WEY/KLI]
$C_9H_{12}NO_5PS$	[122-14-5]	*O,O*-dimethyl-*O*-(3-methyl-4-nitrophenyl)thiophosphate				
	V	(293–382)	78.0	308	A	[1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{12}N_2$	[103-02-6]	phenylhydrazone acetone				
	V	(413–436)	74.6	424	A	[1987STE/MAL, 1913BLA]
$C_9H_{12}N_2$	[1502-10-9]	*N*-methyl-7-(methylimino)-1,3,5-cycloheptatrienylamine				
	SUB		49.4 ± 4			[1971JAC/HUN, 1977PED/RYL]
$C_9H_{12}N_2$	[31529-46-1]	*N*-amino-2-methylindoline				
	FUS		24.45	318.2		[1997PEY/LET]
$C_9H_{12}N_2O$	[101-42-8]	1,1-dimethyl-3-phenylurea				
	FUS		22.81	404.8	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{12}N_2O_2$	[13142-86-4]	3-ethoxyphenylurea				
	SUB		75.3 ± 8.3			[1954TSU/KAT, 1970COX/PIL]
$C_9H_{12}N_2O_2$	[150-69-6]	4-ethoxyphenylurea (dulcin)				
	SUB		83.7 ± 8.3			[1954TSU/KAT, 1970COX/PIL]
$C_9H_{12}N_2O_2S_2$	[2651-16-3]	*S*-methyl-*N*′-tosylisothiourea				
	FUS		31.2	401.2	DSC	[1992REI/HAN]
$C_9H_{12}N_2S$	[14222-60-7]	2-propyl-4-pyridinecarbothioamide				
	FUS		23.21	414.1		[2007WAN/ZHA]
$C_9H_{12}N_4O_2$	[5770-28-5]	8-ethyltheophylline				
	FUS		37.2	545.3	DSC	[1989GON/KRA]
$C_9H_{12}N_4O_3$	[519-37-9]	1,3-dimethyl-7-(2-hydroxyethyl)xanthine				
	FUS		32.62	435.8	DSC	[2014POB/DOM]
$C_9H_{12}O$	[4013-34-7]	(1-methoxyethyl)benzene				
	V	(298–313)	49.2 ± 0.4	296	GS	[2001VER/HEI]
	V	(298–313)	49.1 ± 0.4	298	GS	[2001VER/HEI]
$C_9H_{12}O$	[539-30-0]	benzyl ethyl ether				
	V	(278–314)	53.5 ± 0.4	298	GS	[2002KRA/VAS]
	V	(299–460)	48.0	314	A	[1987STE/MAL, 1947STU]
$C_9H_{12}O$	[14804-32-1]	2-ethylanisole				
	V	(302–460)	49.8	317	A	[1987STE/MAL, 1947STU]
$C_9H_{12}O$	[10568-38-4]	3-ethylanisole				
	V	(306–470)	49.3	321	A	[1987STE/MAL, 1947STU]
$C_9H_{12}O$	[1515-95-3]	4-ethylanisole				
	V	(306–470)	51.9	321	A	[1987STE/MAL, 1947STU]
$C_9H_{12}O$	[698-71-5]	5-ethyl-3-methyphenol				
	V	(468–521)	55.0	483	A, GS, EB	[1987STE/MAL, 1964HAN/HAR]
	V	(385–506)	58.5	58.5		[1955VON/GEB]
$C_9H_{12}O$	[88-69-7]	2-isopropylphenol				
	V	(375–493)	63.5	390	EB	[1990NES/NAZ]
	V	(370–489)	55.1	385	A	[1987STE/MAL]
	V	(375–493)	56.1	390		[1986TSV/NAZ]
	V	(335–501)	57.3	350		[1947STU]
$C_9H_{12}O$	[618-45-1]	3-isopropylphenol				
	V	(377–497)	64.3	392	A	[1987STE/MAL]
$C_9H_{12}O$	[99-89-8]	4-isopropylphenol				
	V	(391–507)	63.7	406	EB	[1990NES/NAZ]
	V	(380–496)	63.1	395	A	[1987STE/MAL]
$C_9H_{12}O$	[2741-16-4]	isopropyl phenyl ether				
	V	(345–448)	49.5	360	A	[1987STE/MAL, 1965HEI/SUR, 1984BOU/FRI]
$C_9H_{12}O$	[122-97-4]	3-phenyl-1-propanol				
	V	(284–328)	62.8	299	A	[1987STE/MAL]
	V	(347–508)	62.6	362		[1947STU]
$C_9H_{12}O$	[617-94-7]	2-phenyl-2-propanol				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(391–423)	52.9	406	A	[1987STE/MAL]
$C_9H_{12}O$	[622-85-5]	phenyl propyl ether				
	V	(374–463)	46.5	389	A	[1987STE/MAL]
$C_9H_{12}O$	[644-35-9]	2-propylphenol				
	V	(377–495)	56.9	392	A	[1987STE/MAL]
	V	(381–504)	59.9	398		[1953STA/MUL]
	V	(381–504)	57.2	423		[1953STA/MUL]
	V	(381–504)	53.0	473		[1953STA/MUL]
$C_9H_{12}O$	[621-27-2]	3-propylphenol				
	V	(408–538)	60.2	423	A	[1987STE/MAL]
	V	(386–512)	59.9	398		[1953STA/MUL]
	V	(386–512)	57.2	423		[1953STA/MUL]
	V	(386–512)	53.0	473		[1953STA/MUL]
$C_9H_{12}O$	[645-56-7]	4-propylphenol				
	V	(383–508)	56.7	398	A	[1987STE/MAL]
	V	(347–517)	61.3	348		[1953STA/MUL]
	V	(347–517)	59.5	373		[1953STA/MUL]
	V	(347–517)	58.4	398		[1953STA/MUL]
	V	(347–517)	56.2	423		[1953STA/MUL]
	V	(347–517)	51.5	473		[1953STA/MUL]
$C_9H_{12}O$	[697-82-5]	2,3,5-trimethylphenol				
	V	(459–521)	53.9	474	A, GS, EB	[1987STE/MAL, 1964HAN/HAR]
	V	(379–506)	55.1	394		[1955VON/GEB]
$C_9H_{12}O$	[2416-94-6]	2,3,6-trimethylphenol				
	FUS		22.05	331.2		[1999VER]
	SUB		86.7 ± 0.6	298	GS	[1999VER]
$C_9H_{12}O$	[496-78-6]	2,4,5-trimethylphenol				
	V	(379–505)	56.5	394	A	[1987STE/MAL, 1955VON/GEB]
$C_9H_{12}O$	[527-60-6]	2,4,6-trimethylphenol				
	SUB		82.8 ± 0.3	298	GS	[1999VER]
	SUB		95.0	298	C	[1971BER/GIR, 1999VER]
	V	(367–494)	53.2	382	A	[1987STE/MAL, 1955VON/GEB]
$C_9H_{12}O$	[2416-94-6]	2,5,6-trimethylphenol				
	V	(359–503)	51.1 ± 0.2	431	Static	[1988BAG/GUR]
$C_9H_{12}O$	[527-54-8]	3,4,5-trimethylphenol				
	V	(396–521)	61.1	411	A	[1987STE/MAL]
$C_9H_{12}O$	[617-94-7]	α, α-dimethylbenzyl alcohol				
	SUB	(276–302)	82.8 ± 0.7	289	GS	[1999VER4]
	SUB	(276–302)	82.3 ± 0.7	298	GS	[1999VER4]
	V	(311–338)	63.4 ± 0.5	325	GS	[1999VER4]
	V	(311–338)	65.0 ± 0.5	298	GS	[1999VER4]
$C_9H_{12}O_2$	[700-13-0]	trimethylhydroquinone				
	V	(450–501)	45.5 ± 0.3	475	Static	[1988BAG/GUR]
$C_9H_{12}O_2$	[80-15-9]	cumene hydroperoxide				
	V	(283–333)	69.9	298	A	[1987STE/MAL]
	V	(347–390)	74.0	362	A	[1987STE/MAL]
$C_9H_{12}O_2$		1,3-dihydroxy-5-methyl-2-ethylbenzene				
	V	(388–453)	77.1	403	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_9H_{12}O_2$	[4179-19-5]	3,5-dimethoxytoluene				
	V	(374–520)	59.5	389	A	[1987STE/MAL]
$C_9H_{12}O_2$	[622-08-2]	ethylene glycol monobenzyl ether				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(453–530)	58.6	468	A	[1987STE/MAL]
$C_9H_{12}O_2$	[770-35-4] propylene glycol 1-phenyl ether					
	V	(389–509)	59.5	404	A	[1987STE/MAL]
$C_9H_{12}O_2$	isopropyl catechol (isomer not specified)					
	V	(393–453)	65.3	423		[1965GAK/BAB]
$C_9H_{12}O_2$	[1125-88-8] benzaldehyde dimethyl acetal					
	V	(278–318)	60.9 ± 0.5	298	GS	[2002VER]
	V	(283–318)	56.5 ± 0.7	300	GS	[1995VER/DOG]
$C_9H_{12}O_2$	[2138-48-9] 3-isopropyl-1,2-dihydroxybenzene					
	SUB		97.8 ± 1.7	298	C	[1984RIB/RIB2]
$C_9H_{12}O_2$	[1125-21-9] 2,6,6-trimethyl-2-cyclohexene-1,4-dione					
	FUS		7.2	297.3	DSC	[1992BAB/HWA]
$C_9H_{12}O_3$	[634-36-6] 1,2,3-trimethoxybenzene					
	SUB		98.0 ± 0.3	298	C	[2000MAT/MIR]
$C_9H_{12}O_3$	[621-23-8] 1,3,5-trimethoxybenzene					
	SUB		100.6 ± 1.9	298	C	[2000MAT/MIR]
	V		68.2 ± 2.0	298	CGC	[2000NIC/ORF]
$C_9H_{12}O_3$	[538-43-2] (racemic) 3-phenoxypropane-1,2-diol					
	FUS		28.0	331.7	DSC	[2008BRE/BRE, 2006ZAK/LAZ]
$C_9H_{12}O_3$	[82430-38-4] (*R*)-3-phenoxypropane-1,2-diol					
	FUS		31.8	341.5	DSC	[2008BRE/BRE, 2006ZAK/LAZ]
$C_9H_{12}O_3$	[5662-95-3] 3,3-tetramethyleneglutaric acid anhydride					
	FUS		15.3	338.4	DSC	[2008MAT/MIR]
	SUB		96.4 ± 1.1	298	C	[2008MAT/MIR]
$C_9H_{12}O_4$	[642-71-7] 3,4,5-trimethoxyphenol					
	FUS		31.94	420.2	DSC	[2008MAT/MIR2]
	SUB		125.3 ± 3.1	298	C	[2008MAT/MIR2]
$C_9H_{12}S$	[6263-62-3] benzyl ethyl sulfide					
	V	(346–370)	56.0	358		[1999DYK/SVO]
	V	(345–500)	54.8	360	A	[1987STE/MAL]
	V		56.9 ± 2.1	298		[1962MAC/MAY]
$C_9H_{12}S$	[20760-06-9] 2-ethylthioanisole					
	V	(481–511)	44.3	496		[1999DYK/SVO]
$C_9H_{12}S$	[34786-24-8] ethyl *m*-tolyl sulfide					
	V	(472–502)	43.5	487		[1999DYK/SVO]
$C_9H_{12}S$	[622.63-9] ethyl *p*-tolyl sulfide					
	V	(473–503)	43.6	488		[1999DYK/SVO]
$C_9H_{12}S$	[3019-20-3] (isopropylthio)benzene					
	V	(461–491)	U23.6	476		[1999DYK/SVO]
$C_9H_{12}S$	[874-79-3] (propylthio)benzene					
	V	(473–503)	44.3	488		[1999DYK/SVO]
$C_9H_{13}BrN_2O_2$	[314-40-9] 5-bromo-6-methyl-3-(1-methylpropyl)-2,4(1*H*,3*H*)-pyrimidinedione					
	FUS		22.02	428.3	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{13}ClN_6$	[21725-46-2] 2-[[4-chloro-6-(ethylamino)-1,3,5-triazin-2-yl]amino]-2-methylpropanenitrile					
	FUS		41.96	437.9	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{13}ClN_6$	[21725-46-2] 2-[(4-chloro-6-ethylamino-*s*-triazin-2-yl)amino]-2-methylpropionitrile (cyanazine)					
	SUB	(339–365)	90.7	352	GS	[1982GRA/FOS]
$C_9H_{13}Cl_3NO_4P$	[5598-15-2] *O,O*-diethyl-*O*-(3,5,6-trichloro-2-pyridyl) phosphate					
	FUS		15.61	312.5	DSC	[1990DON/DRE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{13}Cl_3OS$	[76619-95-9]	2,3,3-trichloro-2-propenethioic acid, *O*-hexyl ester				
	V	(433–483)	69.5		GC	[1980PIT/KIS]
$C_9H_{13}N$	[585-32-0]	α, α-dimethylbenzylamine				
	V	(283–323)	56.4 ± 0.7	303	GS	[1999VER4]
	V	(283–323)	56.7 ± 0.7	298	GS	[1999VER4]
$C_9H_{13}N$	[103-83-3]	*N,N*-dimethylbenzylamine				
	V	(288–328)	48.9 ± 0.4	308	GS	[1999VER4]
	V	(288–328)	49.5 ± 0.4	298	GS	[1999VER4]
	V		50.1 ± 0.9	298	C	[1996MIR/ORL]
$C_9H_{13}N$	[609-72-3]	*N,N*-dimethyl-2-toluidine				
	V	(301–458)	52.4	316	A	[1987STE/MAL, 1947STU]
$C_9H_{13}N$	[121-72-2]	*N,N*-dimethyl-3-toluidine				
	V		58.2 ± 6.9	298	CGC	[1996RIB/RIB]
$C_9H_{13}N$	[99-97-8]	*N,N*-dimethyl-4-toluidine				
	V	(323–483)	60.7	338	A	[1987STE/MAL, 1947STU]
$C_9H_{13}N$	[102-27-2]	*N*-ethyl-3-toluidine				
	V		60.0 ± 3.0	298	CGC	[1996RIB/RIB]
$C_9H_{13}N$	[643-28-7]	2-isopropylaniline				
	V	(286–326)	61.3 ± 0.9	306	GS	[2000VER3]
	V	(286–326)	61.8 ± 0.9	298	GS	[2000VER3]
$C_9H_{13}N$	[99-88-7]	4-isopropylaniline				
	V	(333–500)	57.5	348	A	[1987STE/MAL, 1947STU]
$C_9H_{13}N$	[300-62-9]	1-phenyl-2-propylamine ((*dl*)-amphetamine)				
	V	(333–353)	53.4	343	A	[1987STE/MAL]
	V	(333–353)	57.1 ± 1.1	298	A	[1987STE/MAL, 2013THO/CHI]
$C_9H_{13}N$	[51-64-9]	(*S*)-1-phenyl-2-propylamine ((*d*)-amphetamine)				
	V		58.2 ± 2.7	298	CGC	[2013THO/CHI]
$C_9H_{13}N$	[88-05-1]	2,4,6-trimethylaniline				
	V	(341–510)	64.1	356	A	[1987STE/MAL, 1947STU]
$C_9H_{13}N$	[3978-81-2]	4-*tert*-butylpyridine				
	V		54.4 ± 1.3	298	C	[2008FRI/ACR]
	V	(283–303)	51.0	298		[1979ARN/CHA]
$C_9H_{13}NO$	[492-41-1]	(−)-2-amino-1-phenyl-1-propanol (norephedrine)				
	FUS		15.87	324.4	DSC	[1999LI/ZEL]
$C_9H_{13}NO$	[14838-15-4]	(±)-2-amino-1-phenyl-1-propanol (norephedrine)				
	FUS		26.11	374.3	DSC	[1999LI/ZEL]
$C_9H_{13}NO$	[104-63-2]	*N*-benzylethanolamine				
	V	(293–363)	71.7	328	Static	[2009RAZ/HAJ]
	V	(293–363)	74.5	298	Static	[2009RAZ/HAJ]
$C_9H_{13}NO_2$	[1075-89-4]	3,3-tetramethyleneglutarimide				
	FUS		24.2	426.6	DSC	[2008MAT/MIR]
	SUB		106.8 ± 2.0	298	C	[2008MAT/MIR]
$C_9H_{13}NO_2$	[94-07-5]	4-[1-hydroxy-2-(methylamino)ethyl]phenol				
	FUS		99.7	463.5	DSC	[2015POB/JUR]
$C_9H_{13}N_3O_3S$	[69500-53-4]	(S)-4-[4-(oxiran-2-ylmethoxy)-1,2,5-thiadiazol-3-yl]morpholine				
	FUS		39.9	387.7	DSC	[2014BRE/ZAK]
$C_9H_{13}N_3O_3S$		racemic 4-[4-(oxiran-2-ylmethoxy)-1,2,5-thiadiazol-3-yl]morpholine				
	FUS		38.6	374.0	DSC	[2014BRE/ZAK]
$C_9H_{13}N_5$	[139909-52-7]	6,9-dimethyl-8-ethyladenine				
	FUS		29.8	436.8		[1994ZIE/ZIE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	SUB	(345–351)	94.1 ± 0.1	348	ME	[1994ZIE/ZIE]
$C_9H_{13}N_5$	[117954-97-9]	8-propyl-9-methyladenine				
	SUB	(364–370)	124.2 ± 0.8	367	ME	[1987KAM/ZIE]
$C_9H_{13}N_5O_4$	[82410-32-0]	9-[(1,3-dihydroxy-2-propoxy)methyl]quanine				
	FUS		37.88	509.2	DSC	[1999ZIE/GOL]
C_9H_{14}		1-ethylnortricyclo[2,2,1,$0^{2,6}$]heptane				
	V		42.0 ± 0.1	298	C	[1996VAR/PAS]
C_9H_{14}	[2972-20-5]	2-methylenebicyclo[2.2.2]octane				
	V		45.2			[1974KOZ/BYC]
C_9H_{14}	[4893-13-4]	2-methylbicyclo[2.2.2]oct-2-ene				
	V	(363–402)	40.2	378	A	[1987STE/MAL]
	V		43.5 ± 0.4	298	EB	[1974VAR/DRU, 1974KOZ/BYC]
C_9H_{14}	[2146-39-6]	2-vinylbicyclo[2.2.1]heptane				
	V	(350–385)	38.6	365	A	[1987STE/MAL]
C_9H_{14}	[7124-86-9]	bicyclo[3.2.2]non-6-ene				
	SUB		48 ± 1.0	298	C	[1982JOC/DEK2]
C_9H_{14}	[6671-66-5]	bicyclo[3.3.1]non-2-ene				
	SUB		48.2 ± 0.4	298	C	[1982JOC/DEK2]
C_9H_{14}	[16456-33-0]	bicyclo[4.2.1]non-3-ene				
	SUB		49.7 ± 0.8	298	C	[1982JOC/DEK2]
$C_9H_{14}ClN_5$	[139-40-2]	2-chloro-4,6-bis(isopropylamino)-1,3,5-triazine (propazine)				
	FUS		41.87	490.3	DSC	[1991ACR, 1990DON/DRE]
	FUS		42.1		DSC	[1971GET/WAR]
$C_9H_{14}F_3NO_3$	[1115-39-5]	*N*-trifluoroacetyl-*l*-leucine, methyl ester				
	V	(273–463)	55.9	288	A	[1987STE/MAL, 1999DYK/SVO, 1960WEY/KLI]
$C_9H_{14}N_2$	[1675-69-0]	azelaic acid dinitrile				
	FUS		18.68	251.1	DSC	[2007BAD/BLA]
	V	(308–341)	80.4	323	A	[1987STE/MAL, 1960WOO/MUR]
$C_9H_{14}N_2O_2$	[82413-39-6]	1,3-dimethyl-5-propyluracil				
	FUS		26.3	355	DSC	[1996KAM/ZIE]
	SUB	(317–327)	111.0 ± 1.6	322	ME	[1996KAM/ZIE]
$C_9H_{14}N_2O_2$	[175412-48-3]	1,3-dimethyl-5-isopropyluracil				
	FUS		22.4	354.7	DSC	[1996KAM/ZIE]
	SUB	(316–328)	102.9 ± 1.6	322	ME	[1996KAM/ZIE]
$C_9H_{14}N_2O_2$	[21472-93-5]	1,3-diethylthymine				
	FUS		21.6	327	DSC	[1984ZIE/ZIE2]
	SUB		89.8 ± 0.4	298	C	[1980SAB/KOM]
	SUB	(307–325)	95.0 ± 2.1	317	QR	[1980TEP/YAN]
$C_9H_{14}N_2O_3$	[50-11-3]	metharbital				
	FUS		30.1		DSC	[1978SEK/TSU]
$C_9H_{14}O$	[281-24-3]	2-oxaadamantane				
	FUS		8.12	567	DSC	[1978AND/CAR]
$C_9H_{14}O$	[17931-55-4]	bicyclo[3.3.1]nonan-9-one				
	TRS		13.99	299	DSC	[1998PAR/GIL2]
	TRS		14.11	300.5	AC	[1991WHI/PER]
$C_9H_{14}O$	[5689-04-3]	*cis*-2-hexahydroindanone				
	V		57.5	298		[1971SEL3]
$C_9H_{14}O$	[16484-17-6]	*trans*-2-hexahydroindanone				
	V		56.1	298		[1971SEL3]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{14}O$	[20030-30-2]	2,5,6-trimethyl-2-cyclohexen-1-one				
	V	(371–478)	45.5 ± 0.3	425	Static	[1988BAG/GUR]
$C_9H_{14}O$	[78-59-1]	3,5,5-trimethyl-2-cyclohex-1-one (isophorone)				
	V	(311–489)	48.6	326	A	[1987STE/MAL, 1947STU, 1975GAR/STY]
$C_9H_{14}O$	[504-20-1]	2,6-dimethyl-2,5-heptadien-4-one (phorone)				
	FUS		17.1	299	DSC	[1992BAB/HWA2, 1992BAB/HWA]
	V	(315–471)	54.1	330	A	[1987STE/MAL, 1947STU]
$C_9H_{14}O_2$		bicyclo[2.2.1]heptan-7-one ethylene ketal				
	V	(283–318)	53.8 ± 0.2		GS	[1998VER/PEN, 2002VER]
$C_9H_{14}O_2$	[111-12-6]	methyl 2-octynoate				
	V	(283–312)	64.5	297	A, ME	[1987STE/MAL, 1955SER/VOI]
$C_9H_{14}O_4$	[691-83-8]	diethyl citraconate				
	V	(332–504)	54.9	347	A	[1987STE/MAL, 1947STU]
$C_9H_{14}O_4$	[2409-52-1]	diethyl itaconate				
	V	(324–501)	51.0	339	A	[1987STE/MAL, 1947STU]
$C_9H_{14}O_4$	[2418-31-7]	diethyl mesaconate				
	V	(335–502)	55.9	350	A	[1987STE/MAL, 1947STU]
$C_9H_{14}O_4$	[1559-02-0]	1,1-cyclopropanedicarboxylic acid diethyl ester				
	V	(288–318)	63.9 ± 0.5		GS	[1998VER/KUM]
$C_9H_{14}O_4$	[16713-66-9]	3,3-tetramethyleneglutaric acid				
	FUS		32.1	452.9	DSC	[2008MAT/MIR]
	SUB		126.9 ± 2.4	298	C	[2008MAT/MIR]
$C_9H_{14}O_4$	[23684-11-9]	carbisopropoxy methyl methacrylate				
	FUS		19.87	276.5	AC	[1985KAR/ABD]
$C_9H_{14}O_5$	[570-08-1]	diethyl acetylmalonate				
	V	(363–510)	54.0	378	A	[1987STE/MAL]
$C_9H_{14}O_5$		ethyl[(1-allyloxycarbonyl)ethyl] carbonate				
	V	(342–496)	61.3	357	A	[1987STE/MAL]
$C_9H_{14}O_5$		2-lactyloxypropionic acid, allyl ester				
	V	(331–401)	75.1	346	A	[1987STE/MAL]
$C_9H_{14}O_5$	[57822-06-7]	3-oxononanedioic acid				
	SUB	(312–330)	118		TPTD	[2005CHA/ZIE]
Note: Values based on TPTD method are not consistent with values determined by other experimental methods						
$C_9H_{14}O_6$	[102-76-1]	glycerol triacetate (triacetin)				
	FUS		25.8	275.3		[1996DOM/HEA, 1983RAB/KHL]
	V	(300–328)	83.9 ± 0.8	298	GS	[2010MAS/KRA]
	V	(320–361)	81.9 ± 0.3	298	GS	[2009VER/EME2]
	V	(440–590)	83.8 ± 0.9	298	EB	[1990DAU/HUT, 2009VER/EME2]
	V	(284–319)	82.0	299	A	[1987STE/MAL, 1963WOO/ADI]
	V		85.7 ± 0.3	298	C	[1986NIL/WAD]
	V		83.4 ± 1.0	298	GCC	[1980FUC/PEA]
$C_9H_{14}O_7$	[1587-20-8]	trimethyl citrate				
	V	(379–560)	617.4	394	A	[1987STE/MAL, 1947STU]
$C_9H_{14}S$	[281-25-4]	2-thiaadamantane				
	TRS		1.95	211		
	FUS		8.1	597	DSC	[1978AND/CAR]
$C_9H_{14}S$	[4861-58-9]	2-pentylthiophene				
	V		52.0 ± 1.2	298	C	[2007RIB/SAN]
$C_9H_{15}Cl_3O_2$		3-chloro-2,2-bis(chloromethyl)propyl butyrate				
	V	(426–482)	73.6	441	A	[1987STE/MAL, 1999DYK/SVO]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{15}Cl_6O_4P$	[13674-87-8]	tris(1,3-dichloroisopropyl)phosphate				
	V	(383–413)	91.3	398	GC-RT	[2014BRO/JAN]
$C_9H_{15}NOS$	[59300-33-3]	carbamothioic acid, (1-methylethyl)-2-propynyl-*S*-ethyl ester				
	V	(298–313)	72.8	305	A	[1987STE/MAL, 1999DYK/SVO, 1976DEP]
$C_9H_{15}NOS$	[59300-32-2]	carbamothioic acid, propyl-2-propynyl-*S*-ethyl ester				
	V	(298–313)	64.6	305	A	[1987STE/MAL, 1976DEP]
$C_9H_{15}NO_3S$	[62571-86-2]	1-[(2S)-3-mercapto-2-methyl-1-oxopropyl]-(*l*)-proline				
	FUS		26.68	378.7	DSC	[2015MAR/PIN]
	FUS		20.38	379.5	DSC	[2008STU/ROR]
$C_9H_{15}NO_5$	[1068-90-2]	diethyl acetamidomalonate				
	FUS		34.3	368.7	DSC	[2013LI/TAN]
$C_9H_{15}N_3O_3$	[82859-98-1]	*N*-acetylglycyl-(*l*)-prolinamide				
	TRS		5.6	450.6		
	FUS		27.0	457.8	DSC	[1996PUL/BAR]
$C_9H_{15}N_3O_3$	[52186-41-1]	*N*-acetyl-(*l*)-prolyl-glycinamide				
	FUS		32.2	434.1	DSC	[1992BAR/GIA]
$C_9H_{15}N_3O_8$	[34001-52-0]	neopentyl-4,4,4-trinitrobutyrate				
	FUS		22.59	333.5	DSC	[1971ROS/HOL]
C_9H_{16}	[3452-09-3]	1-nonyne				
	V	(320–464)	45.6 ± 0.2	320	EB	[2002STE/CHI4]
	V	(320–464)	42.7 ± 0.2	360	EB	[2002STE/CHI4]
	V	(320–464)	39.7 ± 0.3	400	EB	[2002STE/CHI4]
	V	(320–464)	36.4 ± 0.5	440	EB	[2002STE/CHI4]
C_9H_{16}	[39124-79-3]	*trans*-bicyclo[6.1.0]nonane				
	V		42.7 ± 0.6		EB	[1978COR/PER]
C_9H_{16}	[13757-43-2]	*cis*-bicyclo[6.1.0]nonane				
	V		49.8 ± 0.8		EB	[1978COR/PER]
	V	(297–360)	50.4 ± 0.8	312	A	[1987STE/MAL, 1970CHA/MCN]
C_9H_{16}	[20454-81-3]	1,4-dimethylbicyclo[2.2.1]heptane				
	V	(328–393)	36.8	343	A	[1987STE/MAL, 1970VAR/BEL, 1984BOU/FRI]
C_9H_{16}	[20558-16-1]	*trans*-2,3-dimethylbicyclo[2.2.1]heptane				
	V	(345–411)	39.3	360	A	[1987STE/MAL, 1970VAR/BEL, 1984BOU/FRI]
C_9H_{16}	[2146-41-0]	2-ethylbicyclo[2.2.1]heptane				
	V	(349–396)	44.4	364	A	[1987STE/MAL]
C_9H_{16}	[4551-51-3]	*cis*-hexahydroindan				
	TRS		8.26	182.3		
	TRS		0.39	184.5		
	FUS		1.4	236.5		[1972FIN/MCC]
	V	(263–293)	47.1	278	A	[1987STE/MAL]
	V	(290–366)	45.9	305	A	[1987STE/MAL]
	V	(363–463)	41.9	378	A	[1987STE/MAL]
	V	(350–442)	42.6	365	GS	[1955CAM/ROS]
C_9H_{16}	[3296-50-2]	*trans*-hexahydroindan				
	FUS		10.9	213.9		[1972FIN/MCC]
	V	(281–362)	45.1	296	A	[1987STE/MAL]
	V	(356–457)	41.1	371	A	[1987STE/MAL]
	V	(262–283)	45.9	272	A	[1987STE/MAL]
	V	(358–479)	41.0	373	A	[1987STE/MAL]
	V	(345–435)	41.6	360	GS	[1955CAM/ROS]
C_9H_{16}	[2114-42-3]	allylcyclohexane				
	V		44.0 ± 0.2	298	GCC	[1979FUC/PEA]
C_9H_{16}	[1003-64-1]	ethylidenecyclohexane				

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V		42.0 ± 0.2	298	GCC	[1979FUC/PEA]
C_9H_{16}	[175-93-9]	spiro[4.4]nonane				
	V	(278–313)	44.5 ± 0.6	298	GS	[2002VER]
C_9H_{16}	[280-65-9]	bicyclo[3.3.1]nonane				
	SUB	(290–340)	50.6 ± 2	298	TSGC	[1977PAR/STE]
$C_9H_{16}ClN_5$	[139-40-2]	2-chloro-4,6-bis(isopropylamino)-1,3,5-triazine				
	SUB	(323–403)	125.1	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_9H_{16}ClN_5$	[5915-41-3]	6-chloro-*N*-(1,1-dimethylethyl)-*N′*-ethyl-1,3,5-triazine-2,4-diamine				
	FUS		33.57	448.6	DSC	[1990DON/DRE]
$C_9H_{16}ClN_5$	[1912-26-1]	2-chloro-4-ethylamino-6-diethylamino-*s*-triazine (trietazine)				
	FUS		22.3		DSC	[1971GET/WAR]
$C_9H_{16}Cl_4$	[1561-48-4]	1,1,1,9-tetrachlorononane				
	V	(303–434)	78.0	318		[1999DYK/SVO]
	V	(298–338)	89.0	313	A	[1987STE/MAL, 1960MAL/MAL]
$C_9H_{16}NO_2$	[2896-70-0]	2,2,6,6-tetramethyl-4-oxopiperidine-1-oxyl				
	SUB		83.3 ± 1.7		ME	[1965KAL/ROZ, 1970COX/PIL, 1987STE/MAL]
$C_9H_{16}N_2$	[2273-41-8]	2-methyl-2-piperidinopropionitrile				
	FUS		21.59	316.2		[1997WEL/VER]
	SUB		80.3 ± 0.5	298		[1997WEL/VER]
	V		57.6 ± 0.4		GS	[1997WEL/VER]
$C_9H_{16}N_2$	[33529-01-0]	1-hexylimidazole				
	V	(309–363)	73.1 ± 0.1	298	GS	[2011EME/POR]
$C_9H_{16}N_2$	[70780-89-1]	1-pentyl-2-methylimidazole				
	V	(303–354)	71.4 ± 0.3	298	GS	[2011EME/POR2]
$C_9H_{16}N_2$	[6674-22-2]	1,8-diazabicyclo[5.4.0]undec-7-ene				
	V		60.0	411	DP-LPD	[2016OST/UUS]
	V		68.4 ± 1.5	298	DP-LPD	[2016OST/UUS]
	V	(328–368)	70.7 ± 0.2	298	GS	[2011LIP/RAT]
	V		67.8 ± 2.6	298	CGC	[2011LIP/RAT]
$C_9H_{16}N_2S$	[1071937-38-6]	1-thia-3-azaspiro[5.5]undec-2-2n-2-ylamine				
	FUS		26.5	385.1	DSC	[2013PER/BLO2]
	SUB		100.7 ± 0.8	298	GS	[2013PER/BLO2]
$C_9H_{16}N_4OS$	[34014-18-1]	*N*-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl]-*N,N′*-dimethylurea				
	FUS		29.48	435.3	DSC	[1991ACR, 1990DON/DRE]
$C_9H_{16}O$	[3350-30-9]	cyclononanone				
	TRS		14.7	247		
	FUS		1.6	298	DSC	[1998GON/SZW]
	V	(333–413)	51.4	348	A	[1987STE/MAL, 1972WOL]
	V	(333–413)	53.1 ± 0.6	298	VP	[1972WOL]
$C_9H_{16}O$	[6555-60-8]	1-(1-methyl-3-cyclohexen-3-yl)ethanol				
	V	(358–410)	54.6	373	A	[1987STE/MAL, 1955PIN/MAR]
$C_9H_{16}O$	[2890-62-2]	methyl (1-methylcyclohexyl) ketone				
	V	(374–414)	46.1	389	A	[1987STE/MAL, 1955PIN/MAR]
$C_9H_{16}O$	[18829-56-6]	*trans*-2-nonenal				
	V	(363–398)	56.1	378	A	[1987STE/MAL]
$C_9H_{16}O$	[873-94-9]	(*dl*)-3,5,5-trimethylcyclohexanone				
	V	(423–463)	39.3	438	A	[1987STE/MAL, 1975GAR/STY]
$C_9H_{16}O$	[1000-30-2]	2,5,5-trimethyl-4-hexene-1-al				
	V	(293–353)	57.0	308	A	[1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{16}OS$	[22842-41-7]	tetrahydro-2,2,6,6-tetramethyl-4*H*-thiopyran-4-one				
	V	(300–360)	34.7	315	A	[1987STE/MAL, 1972GEI/SAW, 1999DYK/SVO]
$C_9H_{16}O_2$	[6222-35-1]	cyclohexyl propanoate				
	V		55.9 ± 0.1	298	C	[2004PAU/ZAI, 2003ZAI/VER]
	V	(253–293)	59.4 ± 0.8	298	ME	[2003ZAI/VER]
	V	(253–293)	56.4 ± 0.5	298	ME	[2003ZAI/VER]
	V	(274–313)	54.3 ± 0.4	298	GS	[2003ZAI/VER]
	V	(333–378)	56.8	298	CGC	[1999VER/HEI]
$C_9H_{16}O_2$	[16737-30-7]	1-methylcyclohexyl acetate				
	V	(333–378)	52.4	298	CGC	[1999VER/HEI]
$C_9H_{16}O_2$	[66922-08-5]	3-methylcyclohexyl acetate				
	V	(333–378)	53.6	298	CGC	[1999VER/HEI]
$C_9H_{16}O_2$	[22597-23-5]	4-methylcyclohexyl acetate				
	V	(333–378)	54.1	298	CGC	[1999VER/HEI]
$C_9H_{16}O_2$	[39869-70-0]	bicyclo[2.2.1]heptan-7-one dimethyl ketal				
	V	(283–318)	50.2 ± 0.2		GS	[1998VER/PEN, 2002VER]
$C_9H_{16}O_2$	[5726-19-2]	acetic acid, 2-methylcyclohexyl ester, mixed isomers				
	V	(337–457)	49.0	353	A	[1987STE/MAL]
$C_9H_{16}O_2$	[61732-95-4]	2-butyl-4,7-dihydro-1,3-dioxepine				
	V	(318–453)	50.9	333	A	[1987STE/MAL]
$C_9H_{16}O_2$	[2499-95-8]	hexyl acrylate				
	V	(342–461)	48.2	357	A	[1987STE/MAL]
$C_9H_{16}O_2$		methacrylic acid, neopentyl ester				
	V	(313–338)	40.5	325	A	[1987STE/MAL]
$C_9H_{16}O_2$	[6008-27-1]	oxo-2-cyclodecanone (nonanolactone)				
	V	(352–381)	54.5 ± 0.2	366	MM	[1991WIB/WAL]
	V	(352–381)	59.0 ± 1.3	298	MM	[1991WIB/WAL]
	V	(333–383)	60.9	348	A	[1987STE/MAL]
$C_9H_{16}O_2$	[104-61-0]	γ-nonalactone				
	V		70.5 ± 4.1	298	CGC	[2014KOZ/GOB]
	V	(296–363)	70.3 ± 0.2	298	GS	[2008EME/KOZ, 2009EME/VER]
$C_9H_{16}O_2$	[3301-94-8]	δ-nonanolactone				
	V		71.1 ± 4.1	298	CGC	[2014KOZ/GOB]
	V	(293–348)	70.7 ± 0.4	298	GS	[2007EME/KOZ]
$C_9H_{16}O_2$	[18362-64-6]	2,6-dimethyl-3,5-heptanedione				
	V		56.1	298		[1978RIB/IRV]
$C_9H_{16}O_2$	[2849-98-1]	pentyl methacrylate				
	V	(339–456)	47.6	354	A	[1987STE/MAL]
$C_9H_{16}O_2$	[54056-51-8]	butyl 3-methylbut-2-enoate				
	V	(279–323)	56.6 ± 0.3	298	GS	[2008EME/TOK]
$C_9H_{16}O_2$	[30434-54-9]	isobutyl 3-methylbut-2-enoate				
	V	(280–323)	54.7 ± 0.2	298	GS	[2008EME/TOK]
$C_9H_{16}O_2$	[33467-74-2]	*cis*-3-hexenyl propionate				
	V		55.7 ± 1.0	298	CGC	[2015KOZ/GOB]
$C_9H_{16}O_2$	[123-68-2]	allyl hexanoate				
	V		55.2 ± 1.2	298	CGC	[2015KOZ/GOB]
$C_9H_{16}O_3$	[2052-15-5]	butyl levulinate				
	V	(338–511)	55.5	373	A	[1987STE/MAL]
	V		56.0	452		[1931SCH/COW]
$C_9H_{16}O_3$		*sec*-butyl levulinate				
	V	(393–499)	51.0	408	A	[1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{16}O_3$	[3757-32-2]	isobutyl levulinate				
	V	(338–503)	61.5	353	A	[1987STE/MAL, 1947STU]
	V		54.7	444		[1931SCH/COW]
$C_9H_{16}O_3$	[60028-15-1]	4-methyl-1-propyl-2,6,7-trioxabicyclo[2.2.2]octane				
	FUS		16.1	311.2		[1995RAK/VER2]
$C_9H_{16}O_4$	[5422-69-5]	2-acetoxypropionic acid, butyl ester				
	V	(325–485)	63.2	340	A	[1987STE/MAL, 1950REH/DIX]
$C_9H_{16}O_4$	[40326-38-3]	3-acetoxypropionic acid, butyl ester				
	V	(373–391)	75.4	382	A	[1987STE/MAL, 1948FEI/FIS]
$C_9H_{16}O_4$	[818-38-2]	diethyl glutarate				
	V	(298–348)	67.3	323	GS	[2011LIP/KRA]
	V	(298–348)	69.8 ± 0.4	298	GS	[2011LIP/KRA]
	V	(338–510)	55.7	353	A	[1987STE/MAL]
	V	(338–510)	67.0	298		[1987STE/MAL, 2011LIP/KRA]
	V	(339–510)	55.5	353		[1947STU, 2011LIP/KRA]
	V	(339–510)	67.6	298		[1947STU, 2011LIP/KRA]
	V	(340–473)	54.9			[1940HEI/REI, 2011LIP/KRA]
	V	(340–473)	65.9 ± 0.1	298		[1940HEI/REI, 2011LIP/KRA]
$C_9H_{16}O_4$	[133-13-1]	ethylmalonic acid, diethyl ester				
	V	(323–485)	55.3	338	A	[1987STE/MAL, 1947STU]
$C_9H_{16}O_4$	[123-99-9]	nonanedioic acid (azelaic acid)				
	FUS		35.3	375.6	DSC	[2009CHE/XIA]
[Note: The authors of [2009CHE/XIA] explicitly state in the manuscript that no solid-solid phase transition was observed]						
	TRS		0.01	330.6		
	TRS		0.7	339.8		
	FUS		29.7	372.4	DSC	[2005ROU/TEM]
	FUS		32.67	380.0	DSC	[1991ACR, 1974CIN/BER]
	SUB	(348–373)	178 ± 5		TPD	[2007CAP/LOV]
	SUB	(294–311)	138		TPTD	[2005CHA/ZIE]
Note: Values based on TPTD method are not consistent with values determined by other experimental methods						
	SUB	(367–377)	156.2 ± 0.5	372	ME	[1999RIB/MON]
	SUB	(367–377)	159.9 ± 1.0	298	ME	[1999RIB/MON]
	V	(434–503)	119.7 ± 0.8	298	CGC	[2005ROU/TEM]
	V	(451–630)	89.3	466	A	[1987STE/MAL, 1947STU]
$C_9H_{16}O_4$	[1732-08-7]	dimethyl pimelate				
	V	(291–353)	73.5 ± 0.3	298	GS	[2006VER/KOZ]
$C_9H_{16}O_4$	[1117-19-7]	dipropyl malonate				
	V	(293–339)	64.4	316	GS	[2011LIP/KRA]
	V	(293–339)	66.2 ± 0.4	298	GS	[2011LIP/KRA]
$C_9H_{16}O_4$	[13195-64-7]	diisopropyl malonate				
	V	(289–325)	63.9 ± 0.3	298	GS	[2011POR/KRA]
$C_9H_{16}O_5$		butyl[1-(methoxycarbonyl)ethyl] carbonate				
	V	(349–510)	61.7	364	A	[1987STE/MAL]
$C_9H_{16}O_5$		isobutyl[1-(methoxycarbonyl)ethyl] carbonate				
	V	(340–501)	59.1	355	A	[1987STE/MAL]
$C_9H_{16}O_5$		2-lactoylpropionic acid, propyl ester				
	V	(327–397)	73.5	342	A	[1987STE/MAL, 1952REH/DIX]
$C_9H_{16}O_5$	[902261-22-7]	methyl[1-(butoxycarbonyl)ethyl] carbonate				
	V	(311–503)	60.2	326	A	[1987STE/MAL]
$C_9H_{17}N$	[767-92-0]	*trans*-(*R,S*)-decahydroquinoline				
	FUS		25.72	321.4		[1994STE/CHI]
	V	(325–525)	50.4	340	EB, IPM	[1994STE/CHI]
	V	(325–525)	47.6	380	EB, IPM	[1994STE/CHI]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(325–525)	45.0	420	EB, IPM	[1994STE/CHI]
	V	(325–525)	42.3	460	EB, IPM	[1994STE/CHI]
	V	(325–525)	39.5	500	EB, IPM	[1994STE/CHI]
$C_9H_{17}N$	[2243-27-8]	octyl cyanide				
	V	(285–323)	62.0 ± 0.3	298	GS	[2005EME/VER]
	V	(328–503)	56.8	343	A	[1987STE/MAL]
	V	(314–480)	58.0	298	EB	[1941RAL/SEL, 2005EME/VER]
$C_9H_{17}NO$	[2896-70-0]	2,2,6,6-tetramethyl-4-oxopiperidine				
	SUB		60.8 ± 2.7		ME	[1966LEB/ROS, 1970COX/PIL]
$C_9H_{17}NO$	[14952-05-7]	*trans*-2-nonenoic acid amide				
	SUB	(383–393)	111.9	388	A	[1987STE/MAL]
$C_9H_{17}NO_2$	[3637-11-4]	2,2,6,6-tetramethyl-1-hydroxy-4-oxopiperidine				
	SUB	(288–328)	80.0	303	A	[1987STE/MAL]
	SUB		80.1 ± 4.6		ME	[1965KAL/ROZ, 1970COX/PIL]
$C_9H_{17}NO_3$	[56430-36-5]	(*dl*)-*N*-acetylvaline ethyl ester				
	V	(382–466)	67.7	397	A, EB	[1987STE/MAL, 1953MEL/VIO]
$C_9H_{17}NO_3S$	[33280-93-2]	(*dl*)-*N*-acetylmethionine ethyl ester				
	V	(432–519)	81.6	447	A, EB	[1987STE/MAL, 1999DYK/SVO, 1953MEL/VIO]
$C_9H_{17}N_5O$	[1610-17-9]	2-methoxy-4-ethylamino-6-isopropylamino-1,3,5-triazine (atratone)				
	FUS		22.9		DSC	[1971GET/WAR]
	SUB	(323–403)	94.4	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_9H_{17}N_5S$	[834-12-8]	2-methylthio-4-ethylamino-6-isopropylamino-1,3,5-triazine (ametryn)				
	FUS		26.0	359.1	DSC	[2007VEC/BRU]
	FUS		21.9		DSC	[1971GET/WAR]
	SUB		125 ± 6	298	DSC	[2007VEC/BRU]
	SUB		118 ± 4	298	TGA	[2007VEC/BRU]
	SUB	(323–403)	100.9	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
	V		91 ± 4	466	DSC	[2007VEC/BRU]
	V		84.9 ± 1.3	453	TGA	[2007VEC/BRU]
C_9H_{18}	[293-55-0]	cyclononane				
	FUS		1.93	283.9		[1952KAA/COO]
C_9H_{18}	[2040-95-1]	butylcyclopentane				
	FUS	(11–367)	11.31	165.2	AC	[1996DOM/HEA, 1965MES/TOD]
	V	(413–432)	39.4	422	A	[1987STE/MAL]
	V		43.8 ± 0.1	328	C	[1981SVO/CHA]
	V		42.7 ± 0.1	343	C	[1981SVO/CHA]
	V		41.6 ± 0.1	358	C	[1981SVO/CHA]
	V		40.9 ± 0.1	368	C	[1981SVO/CHA]
	V		46.0	298		[1971WIL/ZWO]
C_9H_{18}	[19489-10-2]	*cis*-1-ethyl-3-methylcyclohexane				
	V	(373–465)	39.0	388	A	[1987STE/MAL]
C_9H_{18}	[696-29-7]	isopropylcyclohexane				
	V	(295–431)	44.1	310	A	[1987STE/MAL]
	V	(344–429)	41.1	359		[1949FOR/NOR]
C_9H_{18}	[1678-92-8]	propylcyclohexane				
	FUS		10.6	178	Quasi-AC	[2006MAN/CUT]
	FUS	(12–373)	10.37	178.3	AC	[1991ACR, 1965FIN/MES]
	V		42.8 ± 0.5	298	GC	[1987AZA]
	V		44.7 ± 0.4	298	GCC	[1978FUC/PEA]
	V		45.2	298		[1971WIL/ZWO]
	V		45.1	298		[1965FIN/MES]
	V		45.2	298	C	[1947OSB/GIN]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(346–431)	41.7	361	A, MM	[1987STE/MAL, 1947STU, 1949FOR/NOR]
C_9H_{18}	[3073-66-3]	1,1,3-trimethylcyclohexane				
	V	(348–411)	37.7	363	A	[1987STE/MAL]
	V	(327–410)	38.6	342		[1962PAS/THO, 1984BOU/FRI]
	V	(328–411)	38.4	343		[1949FOR/NOR]
C_9H_{18}	[7094-27-1]	1,1,4-trimethylcyclohexane				
	V		45.6 ± 0.2	298		[1995LUK/KOZ2]
C_9H_{18}	[1795-27-3]	*cis*-1,3,5-trimethylcyclohexane				
	V	(318–410)	38.3	333	A	[1987STE/MAL]
C_9H_{18}	[3074-78-0]	2,6-dimethyl-1-heptene				
	V	(273–306)	46.3 ± 0.5	290	GS	[2000VER/WAN]
	V	(273–306)	45.9 ± 0.5	298	GS	[2000VER/WAN]
C_9H_{18}	[124-11-8]	1-nonene				
	FUS		19.97	191.6		[1990MES/TOD]
	V	(278–318)	44.7 ± 0.2	298	GS	[2000VER/WAN]
	V		45.5	298		[1971WIL/ZWO]
	V	(339–423)	42.0	354	A, MM	[1987STE/MAL, 1950FOR/CAM]
C_9H_{18}	[6434-77-1]	*cis*-2-nonene				
	V	(379–424)	40.7	394	A	[1987STE/MAL, 1983ELV/KUU]
C_9H_{18}	[6434-78-2]	*trans*-2-nonene				
	V	(379–422)	40.8	394	A	[1987STE/MAL, 1983ELV/KUU]
C_9H_{18}	[20237-46-1]	*cis*-3-nonene				
	V	(376–422)	40.3	391	A	[1987STE/MAL, 1983ELV/KUU]
C_9H_{18}	[20063-92-7]	*trans*-3-nonene				
	V	(377–421)	40.6	392	A	[1987STE/MAL, 1983ELV/KUU]
C_9H_{18}	[10405-84-2]	*cis*-4-nonene				
	V	(376–421)	40.1	391	A	[1987STE/MAL, 1983ELV/KUU]
C_9H_{18}	[10405-85-3]	*trans*-4-nonene				
	V	(376–420)	40.4	391	A	[1987STE/MAL, 1983ELV/KUU]
$C_9H_{18}Br_2$	[62168-27-8]	1,1-dibromononane				
	V	(427–591)	59.5	442	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_9H_{18}Cl_2$	[821-88-5]	1,1-dichlorononane				
	V	(420–490)	62.3	298		[1987VAR/LOS2, 1991BAS/SVO]
	V	(398–556)	54.0	413	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_9H_{18}Cl_2$	[56375-96-3]	1,2-dichlorononane				
	V	(430–510)	52.1	443		[1999DYK/SVO]
	V	(430–510)	62.1	298		[1986VAR, 1991BAS/SVO]
$C_9H_{18}Cl_3O_{4P}$	[13674-84-5]	tris(2-chloroisopropyl)phosphate				
	V	(333–363)	85.2	348	GC-RT	[2014BRO/JAN]
$C_9H_{18}F_2$	[62127-42-8]	1,1-difluorononane				
	V	(347–482)	47.2	362	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_9H_{18}F_2$	[145853-37-8]	2,2-difluorononane				
	V	(279–313)	46.7 ± 0.2	298	GS	[1997SCH/VER]
$C_9H_{19}NO_2$		propyl 2-(*N,N*-dimethylamino)-2-methylpropanoate				
	V	(282–318)	54.0 ± 0.5	298	GS	[1996VER/ZUF]
$C_9H_{19}NO_2$		ethyl 2-(*N,N*-diethylamino)-2-propanoate				
	V	(283–313)	54.9 ± 0.6	298	GS	[1996VER/ZUF]
$C_9H_{19}NO_2$	[2226-96-2]	2,2,6,6-tetramethyl-4-hydroxypiperidine-1-oxyl				
	SUB	(293–318)	101.5 ± 5.2	306	ME	[1966LEB/ROS, 1970COX/PIL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{18}N_2$	[19340-91-1]	2-(diethylamino)pentanenitrile				
	V	(283–318)	57.4 ± 0.4		GS	[1997WEL/VER]
	V	(283–326)	58.8	298	A	[1987STE/MAL]
$C_9H_{18}N_2OS$	[95600-05-8]	*N,N*-diethyl-*N′*-isobutanoylthiourea				
	SUB	363	120.8 ± 2.5	298	C	[2001RIB/RIB]
$C_9H_{18}N_2O_2$	[1842-72-4]	azelamide				
	FUS		55.0	450.4	DSC	[2006BAD/DEL]
$C_9H_{18}N_2O_2$	[32483-15-1]	*N*-acetyl-L-leucine-*N′*-methylamide				
	FUS		23.19	438.2	DSC	[2014BAD/DEL]
$C_9H_{18}N_2O_2$	[26090-94-8]	*N*-acetyl-DL-leucine-*N′*-methylamide				
	FUS		27.16	432.1	DSC	[2014BAD/DEL]
$C_9H_{18}N_2O_2$	[27777-86-2]	*N*-acetyl-DL-norleucine-*N′*-methylamide				
	FUS		34.34	444.0	DSC	[2014BAD/DEL]
$C_9H_{18}N_2O_2$	[32483-16-2]	*N*-acetyl-L-isoleucine-*N′*-methylamide				
	FUS		38.13	525.7	DSC	[2014BAD/DEL]
$C_9H_{18}N_2O_2$	[120328-70-3]	*N*-acetyl-DL-isoleucine-*N′*-methylamide				
	FUS		27.13	482.0	DSC	[2014BAD/DEL]
$C_9H_{18}N_2O_2S$	[39196-18-4]	3,3-dimethyl-1-(methylthio)-2-butanone *O*-((methylamino)carboxyl)oxime				
	FUS		19.83	330.2	DSC	[1991ACR, 1990DON/DRE]
	SUB	(298–328)	93.5 ± 6	308	ME	[1987STE/MAL, 1976DEP]
$C_9H_{18}N_2O_4$	[57-53-4]	2-methyl-2-propyl-1,3-propanediol-1,3-dicarbamate				
	FUS (I)		35.64	377.8		
	FUS (II)		32.97	372.7		[1991LEF/GUI]
$C_9H_{18}N_6$	[645-05-6]	1,3,5-tris(dimethylamino)-*s*-triazine				
	FUS		23.01	444.4	DSC	[1991ACR, 1989BRA/RYT]
$C_9H_{18}N_6$	[16268-64-7]	1-(ethylamino)-3,5-bis(dimethylamino)-*s*-triazine				
	FUS		16.74	333	DSC	[1991ACR, 1989BRA/RYT]
$C_9H_{18}O$	[1462-97-1]	1-butylcyclopentanol				
	V	(359–466)	63.5	374	A	[1987STE/MAL]
$C_9H_{18}O$	[815-24-7]	2,2,4,4-tetramethyl-3-pentanone				
	V		45.5 ± 0.4	298	C	[1977PEA/FUC]
	V		45.4 ± 0.1	298	C	[1970SEL2]
	V		45.4 ± 0.1	298	C	[1966WAD]
$C_9H_{18}O$	[108-83-8]	2,6-dimethyl-4-heptanone				
	V		49.8 ± 0.1	308	C	[1992SVO/KUB]
	V		49.3 ± 0.1	313	C	[1992SVO/KUB]
	V		48.4 ± 0.1	323	C	[1992SVO/KUB]
	V		47.9 ± 0.1	328	C	[1992SVO/KUB]
	V		47.1 ± 0.1	338	C	[1992SVO/KUB]
	V		46.6 ± 0.1	343	C	[1992SVO/KUB]
	V		46.1 ± 0.1	348	C	[1992SVO/KUB]
	V		45.2 ± 0.1	358	C	[1992SVO/KUB]
	V	(322–471)	51.0	298		[1975AMB/ELL]
	V		50.9 ± 0.1	298	C	[1970SEL2]
	V	(336–451)	46.8	351	A, MM	[1987STE/MAL, 1947STR/GAB]
$C_9H_{18}O$	[6555-61-9]	1-(1-methylcyclohexyl)ethanol				
	V	(358–408)	55.5	373	A	[1987STE/MAL, 1955PIN/MAR]
$C_9H_{18}O$	[124-19-6]	nonanal				
	FUS		29.6	253.9		[1980DYA/VAS]
	V	(276–309)	55.3 ± 0.3	298	GS	[2003VER/KRA2]
	V	(323–343)	55.2	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
	V	(313–353)	58.9	298	CGC	[1995CHI/HOS]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
	V	(306–458)	51.1	321	A	[1987STE/MAL]
	V		56.3 ± 0.2	298		[1981DYA/KOR]
$C_9H_{18}O$	[925-78-0]	2-nonanone				
	V	(283–466)	55.6	300		[1999DIA/GUE]
	V	(335–468)	52.6	350	A	[1987STE/MAL]
	V		56.6 ± 0.6	298	GCC	[1979SAL/PEA]
	V		56.4 ± 0.1	298	C	[1977SEL]
	V	(342–545)	56.4	298		[1975AMB/ELL]
	V	(335–437)	52.7	348		[1966MEY/WAG]
$C_9H_{18}O$	[502-56-7]	5-nonanone				
	TRS	(12–319)	0.373	110		
	FUS	(12–319)	24.94	269.3	AC	[1991ACR, 1970AND/COU]
	V	(284–337)	54.9 ± 0.1	298	Static	[2015ZAI/VER]
	V	(274–318)	54.7 ± 0.5	298	GS	[2015ZAI/VER]
	V	(443–486)	44.7	458	A	[1987STE/MAL]
	V		54.9 ± 0.4	298	GCC	[1979SAL/PEA]
	V	(357–468)	49.7	372	A	[1987STE/MAL, 1975AMB/ELL]
	V		55.0	298	EB	[1975AMB/ELL]
	V		53.3 ± 0.1	298	C	[1970HAR/HEA]
	V	(333–353)	55.6	343	Static	[1968REN/PRA]
	V	(333–353)	58.7 ± 0.8	298	Static	[1968REN/PRA, 2015ZAI/VER]
	V	(283–323)	40.2	298	A	[1987STE/MAL, 1937RIN/SAY]
$C_9H_{18}O$	[116-02-9]	3,3,5-trimethylcyclohexanol				
	V	(343–473)	61.8	358	A	[1987STE/MAL]
$C_9H_{18}O$	[53965-16-5]	2,2,5-trimethyl-4-hexene-1-ol				
	V	(323–373)	61.5	338	A	[1987STE/MAL, 1974VOI/SHC]
$C_9H_{18}O_2$	[858858-08-9]	2-butoxy-3-pentanone				
	V	(333–398)	39.8	348	A, I	[1987STE/MAL, 1933HEN/MUR]
$C_9H_{18}O_2$	[22432-66-2]	2-butyl-1,3-dioxepane				
	V	(325–358)	57.4	340	A	[1987STE/MAL, 1977VOI/SHC2]
$C_9H_{18}O_2$	[3274-29-1]	2-ethylheptanoic acid				
	V	(386–475)	63.4	401	A, EB	[1987STE/MAL, 1960TRE/MIL]
$C_9H_{18}O_2$	[4352-95-8]	2-methyl-2-pentyl-1,3-dioxolane				
	V	(278–318)	54.0 ± 0.3	298	GS	[1998VER/PEN, 2002VER]
$C_9H_{18}O_2$	[4421-10-7]	2,2-diisopropyl-1,3-dioxolane				
	V	(278–318)	49.9 ± 0.3	293	GS	[1998VER/PEN, 2002VER]
$C_9H_{18}O_2$	[1708-34-5]	2-hexyl-1,3-dioxolane				
	V	(325–353)	55.0	339	A	[1987STE/MAL, 1977VOI/SHC]
$C_9H_{18}O_2$	[64198-22-7]	methyl 2,4,4-trimethylpentanoate				
	V	(278–318)	48.4 ± 0.2	298	GS	[1996VER/BEC]
$C_9H_{18}O_2$	[112-32-3]	octyl formate				
	V	(283–338)	57.1	310	GS	[2012SAM/NAZ]
	V	(283–338)	58.2 ± 0.2	298	GS	[2012SAM/NAZ]
$C_9H_{18}O_2$	[5129-37-3]	butyl pivalate				
	V	(274–313)	49.5 ± 0.2	298	GS	[2008VER/EME]
	V	(274–313)	50.4 ± 0.3	298	GS	[1996VER/BEC]
$C_9H_{18}O_2$	[2445-76-3]	hexyl propanoate				
	V	(287–333)	56.5	310	GS	[2012SAM/NAZ]
	V	(287–333)	57.1 ± 0.2	298	GS	[2012SAM/NAZ]
$C_9H_{18}O_2$	[589-59-3]	isobutyl isovalerate				
	V	(289–442)	47.3	304	A	[1987STE/MAL, 1947STU]
$C_9H_{18}O_2$	[106-27-4]	isopentyl butyrate				
	V	(294–452)	47.4	309	A	[1987STE/MAL, 1947STU]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{18}O_2$	[2050-01-3]	isopentyl isobutyrate				
	V		51.7 ± 1.6	298	CGC	[2015KOZ/GOB]
	V	(287–442)	47.4	302	A	[1987STE/MAL, 1947STU]
$C_9H_{18}O_2$	[2311-46-8]	isopropyl caproate				
	V	(307–383)	51.6	322	A	[1987STE/MAL]
$C_9H_{18}O_2$	[111-11-5]	methyl octanoate (methyl caprylate)				
	V		53.3	350		[2002VAN/VAN]
	V		52.6 ± 0.1	363		[2002VAN/VAN]
	V		56.9 ± 0.1	298		[2002VAN/VAN]
	V		54.7 ± 0.6	298	GC	[1987AZA]
	V		57.3 ± 0.4	298	GCC	[1980FUC/PEA]
	V		57.9 ± 0.4	298	C	[1977PEA/FUC]
	V		56.4 ± 0.5	298	C	[1977MAN/SEL]
	V	(347–470)	52.4	362	A, EST	[1987STE/MAL, 1963ROS/SCH]
	V	(373–419)	50.8	388		[1961ROS/SUP, 1984BOU/FRI]
	V	(307–350)	55.2	322	MG, OM	[1952SCO/MAC]
$C_9H_{18}O_2$	[112-05-0]	nonanoic acid				
	TRS		8.15	263.0		
	FUS	(90–305)	19.82	285.5	AC	[1982SCH/VAN2]
	TRS		5.61	268		
	FUS		20.31	285.5		[1991ACR, 1924GAR/RAN]
	V	(381–528)	76.9	396	A	[1987STE/MAL]
	V	(292–313)	85.3 ± 2.0	304	ME, TE	[1982DEK/SCH]
	V	(293–303)	82.4 ± 0.4	298		[1968BAC/NOV]
	V	(387–483)	64.2		EB	[1960TRE/MIL]
$C_9H_{18}O_2$	[626-77-7]	propyl caproate				
	V	(315–394)	52.8	330	A	[1987STE/MAL]
	V	(315–394)	52.1	330		[1961ROS/SUP, 1984BOU/FRI]
$C_9H_{18}O_2$	[112-06-1]	heptyl acetate				
	V	(274–306)	57.1 ± 0.2	298	GS	[2006KRA/VER]
	V		56.9	298	GC	[1997KOU/HOS]
	V	(387–478)	49.2	402	DTA	[1980MEY/AWE]
$C_9H_{18}O_2$	[2050-00-2]	*tert*-amyl butyrate				
	V	(274.5–309)	50.3 ± 0.2	298	GS	[2008VER/EME]
	V	(333–378)	48.9	298	CGC	[1999VER/HEI]
	V	(278–308)	50.8 ± 0.6	298	GS	[1996VER/BEC]
$C_9H_{18}O_2$	[194784-93-5]	*tert*-amyl isobutyrate				
	V	(333–378)	47.8	298	CGC	[1999VER/HEI]
$C_9H_{18}O_2$	[245658-26-8]	2-methyl-2-pentanol propanoate				
	V	(333–378)	49.8	298	CGC	[1999VER/HEI]
$C_9H_{18}O_2$	[245658-31-5]	2,3-dimethyl-2-butanol 2-propanoate				
	V	(333–378)	49.9	298	CGC	[1999VER/HEI]
$C_9H_{18}O_2$	[15706-73-7]	butyl 2-methylbutanoate				
	V	(274–319)	54.4 ± 0.3	298	GS	[2008VER/EME]
	V	(278–313)	50.6 ± 0.5	298	GS	[1996VER/BEC]
$C_9H_{18}O_2$	[540-18-1]	pentyl butyrate				
	V		53.6 ± 0.6	298	CGC	[2015KOZ/GOB]
$C_9H_{18}O_3$	[109857-47-8]	2-butoxypropionic acid, ethyl ester				
	V	(348–438)	80.3	363	A, I	[1987STE/MAL, 1933HEN/MUR]
$C_9H_{18}O_3$	[14144-35-5]	3-ethoxypropionic acid, butyl ester				
	V	(346–479)	51.8	361	A	[1987STE/MAL, 1948DIX/REH]
$C_9H_{18}O_3$	[93282-65-6]	3-hydroxypropionic acid, hexyl ester				
	V	(408–432)	69.6	420	A	[1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{18}O_3$	[20279-51-0]	lactic acid, hexyl ester				
	V	(307–494)	67.4	322	A	[1987STE/MAL]
$C_9H_{18}O_3$	[10500-16-0]	3-methoxypropionic acid, pentyl ester				
	V	(322–485)	53.3	337	A	[1987STE/MAL]
$C_9H_{18}O_3$	[14144-41-3]	3-propoxypropionic acid, propyl ester				
	V	(317–484)	50.9	332	A	[1987STE/MAL]
$C_9H_{18}O_3$	[542-52-9]	dibutyl carbonate				
	V	(287–329)	62.9 ± 0.4	298	GS	[2008KOZ/EME]
$C_9H_{18}O_3$	[34619-03-9]	di-*tert*-butylcarbonate				
	SUB		65.4 ± 0.2	298	C	[1985KUS]
$C_9H_{18}O_9$	[17088-37-8]	hexamethyl-1,4,7-cyclononatriperoxane (triacetone triperoxide)				
	FUS		5.84	360	DSC	[2014MBA/KNO]
Note: Enthalpy of fusion reported in [2014MBA/KNO] differs significantly with other reported values						
	FUS		21.25	358.6		
	FUS		23.6	357.1	DSC	[2010RAM/FEL]
Note: The values in the text for the measured enthalpy of fusion and melting point temperture were different than the value in Table 1 of [2010RAM/FEL]						
	SUB		71 ± 4.8		HSA	[2015MBA/KNO]
	SUB		65 ± 6.1		HSA	[2015MBA/KNO]
	SUB	(298–327)	71.7	313	TGA	[2014MBA/KNO]
	SUB	(303–338)	72.1		TGA	[2011FEL/RAM]
	SUB	(314–332)	91.7	323	TGA	[2010OXL/SMI]
	SUB	(288–323)	73	304	HSA	[2009OXL/SMI]
	SUB	(288–333)	109.3	309	HSA	[2005OXL/SMI]
$C_9H_{18}S_4$	[25423-58-9]	1,5,9-trithiacyclododecane				
	TRS		12	349.2		
	FUS		19.4	373.2	DSC	[2002ROC/GRI]
$C_9H_{19}Br$	[693-58-3]	1-bromononane				
	FUS		30.12	243.2		[1950CRO/SMY]
	V	(376–525)	53.1	391		[1999DYK/SVO]
	V	(391–549)	52.2	406	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN]
$C_9H_{19}Cl$	[2473-01-0]	1-chlorononane				
	V	(363–509)	51.5	378		[1999DYK/SVO]
	V	(340–480)	55.9	298		[1984BOU/FRI, 1991BAS/SVO]
	V	(342–478)	53.4	357	A, DTA	[1987STE/MAL, 1969KEM/KRE]
$C_9H_{19}F$	[463-18-3]	1-fluorononane				
	V	(278–313)	50.8 ± 0.9	298	GS	[1994STE/CHI]
	V	(333–473)	46.8	348	A, EST	[1987STE/MAL, 1961LI/ROS, 1970DYK/VAN, 1999DYK/SVO]
$C_9H_{19}I$	[4282-42-2]	1-iodononane				
	V		64.5	298		[2006BOL/NER, 1961LI/ROS]
	V	(391–551)	54.6	406		[1999DYK/SVO]
	V	(408–577)	53.5	423	A	[1987STE/MAL, 1970DYK/VAN]
	V	(343–493)	64.3	358		[1947STU]
$C_9H_{19}N$	[768-66-1]	2,2,6,6-tetramethylpiperidine				
	V	(288–313)	44.5 ± 0.5	300		[1997VER]
$C_9H_{19}N$	[4945-48-6]	*N*-butylpiperidine				
	V	(275–313)	49.2 ± 0.2	294	GS	[1998VER6]
	V	(275–313)	48.9 ± 0.2	298	GS	[1998VER6]
$C_9H_{19}N$	[13173-21-2]	*N,N*-diethyl-4-pentenylamine				
	V	(338–430)	41.5	353	A	[1987STE/MAL]
$C_9H_{19}NO$	[103-00-4]	1-(cyclohexylamino)-2-propanol				
	V	(423–512)	56.6	438	A	[1987STE/MAL, 1984BOU/FRI, 1959MCD/SHR]
$C_9H_{19}NO$	[1120-07-6]	nonanamide				
	SUB	(353–370)	114.6 ± 3.3	361	ME, A	[1959DAV/JON2, 1987STE/MAL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{19}NO_2$	[35601-84-4]	heptylcarbamic acid, methyl ester				
	V	(368–408)	109.8	383	A	[1987STE/MAL]
$C_9H_{19}NO_2$	[3637-10-3]	2,2,6,6-tetramethyl-1,4-dihydroxypiperidine				
	SUB	(318–348)	100.4 ± 0.6	328	ME	[1966LEB/ROS, 1970COX/PIL]
$C_9H_{19}NS$	[5842-07-9]	diisopropylaminoethanethiol				
	V	(275–423)	55.6	293	GS,DSC	[2013WIL/HUL]
	V	(275–423)	52.7	323	GS,DSC	[2013WIL/HUL]
	V	(275–423)	50.6	353	GS,DSC	[2013WIL/HUL]
	V	(275–423)	48.4	393	GS,DSC	[2013WIL/HUL]
C_9H_{20}	[111-84-2]	nonane				
	TRS		8.39	217.2		
	FUS		13.24	219.2	DSC	[2005HUA/SIM]
	TRS		6.2	218.2		
	FUS		15.0	219.5	DSC	[2004MON/RAJ]
	TRS		6.28	217.2		
	FUS		15.48	219.7		[1991ACR, 1996DOM/HEA, 1954FIN/GRO2]
	SUB		74.6	219	B	[1963BON]
	V		46.5 ± 0.2	298	C	[2007PAS/KUZ]
	V		46.7	299	C	[1996VIT/CHA]
	V		46	314	C	[1996VIT/CHA]
	V		46.6 ± 0.2	298	C	[1996VAR/PAS]
	V		46.6	298		[1994RUZ/MAJ]
	V	(322–413)	43.9	337		[1986PAU/KRU]
	V		44.3	328	C	[1984MAJ/SVO3]
	V		43.2	343	C	[1984MAJ/SVO3]
	V		42.1	358	C	[1984MAJ/SVO3]
	V		46.4	298		[1971WIL/ZWO]
	V	(219–308)	48.3	234	A	[1987STE/MAL, 1973CAR/KOB]
	V		46.4	298	C	[1947OSB/GIN]
	V	(344–426)	42.7	359	A, MM	[1987STE/MAL, 1945WIL/TAY, 1949FOR/NOR]
C_9H_{20}	[3221-61-2]	2-methyloctane				
	FUS		17.99	192.8		[1998HEL/OWE]
	V	(305–417)	43.2	320	A	[1987STE/MAL]
	V		44.9	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[2216-33-3]	3-methyloctane				
	FUS		16.99	165.6		[1998HEL/OWE]
	V		44.9	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[2216-34-4]	4-methyloctane				
	V		44.5	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[15869-80-4]	3-ethylheptane				
	V		44.5	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[2216-32-2]	4-ethylheptane				
	V		44.1	298		[1961LAB/GRE]
C_9H_{20}	[1071-26-7]	2,2-dimethylheptane				
	V		42.3	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[3074-71-3]	2,3-dimethylheptane				
	V		43.6	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[2213-23-2]	2,4-dimethylheptane				
	V		42.9	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[2216-30-0]	2,5-dimethylheptane				
	V		43.3	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[1072-05-5]	2,6-dimethylheptane				
	V		43.3	298		[1971WIL/ZWO, 1961LAB/GRE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_9H_{20}	[4032-86-4]	3,3-dimethylheptane				
	V		42.6	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[922-28-1]	3,4-dimethylheptane				
	V		43.6	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[926-82-9]	3,5-dimethylheptane				
	V		43.3	298		[1971WIL/ZWO]
C_9H_{20}	[1068-19-5]	4,4-dimethylheptane				
	V		42.2	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[1067-20-5]	3,3-diethylpentane				
	TRS	(11–365)	0.48	208.3		
	TRS	(11–365)	0.81	210.4		
	FUS	(11–365)	10.09	240.1	AC	[1996DOM/HEA, 1976FIN/MES]
	FUS	(90–260)	10.03	240.1		[1954STA/WAR]
	V		42.6 ± 0.3	298	GCC	[1979FUC/PEA]
	V		43.6	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(335–426)	39.8	350	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{20}	[16789-46-1]	2-methyl-3-ethylhexane				
	V		43.2	298		[1961LAB/GRE]
C_9H_{20}	[3074-75-7]	2-methyl-4-ethylhexane				
	V		42.9	298		[1961LAB/GRE]
C_9H_{20}	[3074-76-8]	3-methyl-3-ethylhexane				
	V		42.9	298		[1961LAB/GRE]
C_9H_{20}	[3074-77-9]	3-methyl-4-ethylhexane				
	V		43.6	298		[1961LAB/GRE]
C_9H_{20}	[16747-25-4]	2,2,3-trimethylhexane				
	V	(238–303)	42.2	288	IPM	[1974OSB/DOU]
	V		41.7	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[16747-26-5]	2,2,4-trimethylhexane				
	V	(288–410)	39.5	303	A	[1987STE/MAL]
	V	(238–393)	41.0	278	A	[1987STE/MAL]
	V	(238–303)	40.5	288	IPM	[1974OSB/DOU]
	V		40.7	298		[1971WIL/ZWO]
C_9H_{20}	[3522-94-9]	2,2,5-trimethylhexane				
	V	(288–399)	40.1	303	A	[1987STE/MAL]
	V	(238–303)	41.1	288	A, IPM	[1987STE/MAL, 1974OSB/DOU]
	V		40.2	298		[1971WIL/ZWO]
	V	(319–398)	38.5	334		[1949FOR/NOR]
	V		40.2	298	C	[1947OSB/GIN]
C_9H_{20}	[16747-28-7]	2,3,3-trimethylhexane				
	V	(238–303)	44.2	253	A	[1987STE/MAL]
	V	(288–422)	39.4	303	A	[1987STE/MAL]
	V		42.1	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[921-47-1]	2,3,4-trimethylhexane				
	V		42.7	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[1069-53-0]	2,3,5-trimethylhexane				
	V		41.4	298		[1971WIL/ZWO]
	V		41.4	298	C	[1947OSB/GIN]
C_9H_{20}	[16747-30-1]	2,4,4-trimethylhexane				
	V		41.1	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(323–406)	38.5	338	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{20}	[16747-31-2]	3,3,4-trimethylhexane				
	V		42.2	298		[1971WIL/ZWO, 1961LAB/GRE]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
C_9H_{20}	[16747-32-3]	2,2-dimethyl-3-ethylpentane				
	V		41.7	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[16747-33-4]	2,3-dimethyl-3-ethylpentane				
	V		42.7	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[1068-87-7]	2,4-dimethyl-3-ethylpentane				
	V		42.3	298		[1971WIL/ZWO, 1961LAB/GRE]
C_9H_{20}	[7154-79-2]	2,2,3,3-tetramethylpentane				
	TRS	(12–400)	7.33	174.5		
	FUS	(12–400)	2.33	263.4	AC	[1996DOM/HEA, 1976FIN/MES]
	V		41.2	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(328–415)	39.2	343	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{20}	[1186-53-4]	2,2,3,4-tetramethylpentane				
	V		40.8	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(325–413)	38.4	340	A	[1987STE/MAL, 1949FOR/NOR]
C_9H_{20}	[1070-87-7]	2,2,4,4-tetramethylpentane				
	FUS	(12–379)	9.75	206.7	AC	[1996DOM/HEA, 1976FIN/MES]
	V		38.5 ± 0.1	298	C	[1982FUC/PEA]
	V		38.5 ± 0.3	298	GCC	[1979FUC/PEA]
	V		38.2	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(313–397)	37.2	328	A	[1987STE/MAL, 1949FOR/NOR]
	V	(331–375)	36.5	346	EB	[1941SMI, 1984BOU/FRI]
	V	(375–422)	34.8	390		[1941SMI]
C_9H_{20}	[16747-38-9]	2,3,3,4-tetramethylpentane				
	V		41.8	298		[1971WIL/ZWO, 1961LAB/GRE]
	V	(331–416)	39.3	346	A	[1987STE/MAL, 1949FOR/NOR]
$C_9H_{20}ClF_3N_2S$	[63265-72-5]	chlorobis(*N*-ethylethanaminato)(trifluoromethyl) sulfur				
	V		39.8	479	I	[1977KIT/SHR2]
$C_9H_{20}ClF_3N_2OS$	[63265-74-7]	chlorobis(*N*-ethylethanaminato)oxo(trifluoromethyl) sulfur				
	V		44.4	486	I	[1977KIT/SHR2]
$C_9H_{20}N_2O$	[1792-17-2]	1,3-dibutylurea				
	TRS		11.1	311.5		
	FUS		14.87	346.9		[1996DOM/HEA, 1987DEL/FER]
	SUB	(323–372)	91.9 ± 0.9	348	ME	[2003ZAI/KAB]
	SUB	(323–372)	91.9 ± 0.9	350	ME	[2003ZAI/KAB]
	SUB		90.0 ± 1.0	350	C	[2003ZAI/KAB]
	V	(379–413)	101.1 ± 1.6	396		[1990PIA/FER]
$C_9H_{20}N_2O$	[2158-10-3]	1-octyl urea				
	TRS		11.8	353.2		
	FUS		24.4	374.6	DSC	[2005HAS/TAJ]
	TRS		11.5	350.2		
	FUS		24.6	372.2	DSC	[1999WEL/DRU]
$C_9H_{20}N_2O$	[1187-03-7]	1,1,3,3-tetraethylurea				
	FUS		20.55	253		[1990KOZ/SIM2, 1996DOM/HEA, 1995KAB/KOZ2]
$C_9H_{20}N_2S$	[109-46-6]	1,3-butylthiourea				
	FUS		28.34	338	DSC	[2000DEL/JOZ]
	SUB		141.0 ± 2	298	B	[2000DEL/JOZ]
	SUB		137 ± 3.0	298	C	[1994TER/PIA]
	V	(368–403)	105 ± 2.0	386	ME, TE	[1994TER/PIA]
$C_9H_{20}N_2S_2$	[1518-58-7]	diethylammonium diethyldithiocarbamate				
	SUB		209.9 ± 3.0		C	[1988RIB/REI]
	SUB		111.8 ± 3.0			[1979CAV/HIL]

Note: The authors of [1988RIB/REI] state compound decomposes on sublimation

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{20}N_4O_4$	[134273-36-2]	*N,N′*-dibutyl-*N,N′*-dinitromethanediamine				
	FUS		31.0	345.2	DSC	[2003SPI/WAN]
$C_9H_{20}O$	[143-08-8]	1-nonanol				
	FUS		24.54	268.1	DSC	[2005DOM/MAR]
	V	(284–353)	74.7 ± 0.3	298	GS	[2005ROG/PIS]
	V		72.2	298	CGC	[2000OVA/KOU]
	V	(373–423)	76.7	298	CGC	[1995CHI/HOS]
	V	(273–323)	77.4	298		[1992NGU/KAS]
	V	(368–500)	65.0	383	A	[1987STE/MAL]
	V	(381–495)	62.9	396	A	[1987STE/MAL]
	V		76.9 ± 0.8	298	C	[1977MAN/SEL]
	V	(425–494)	59.7	440	EB	[1976HON/SIN]
	V	(368–487)	64.5	383		[1973WIL/ZWO]
	V	(365–487)	65.5	380	DTA	[1969KEM/KRE]
$C_9H_{20}O$	[628-99-9]	2-nonanol				
	V	(286–324)	72.9 ± 0.6	298	GS	[2007VER/SCH]
	V	(253–353)	79.6	268		[1999NGU/BER]
	V	(364–471)	55.5	379		[1973WIL/ZWO]
$C_9H_{20}O$	[624-51-1]	3-nonanol				
	V	(263–363)	70.9 ± 0.3	298	GS	[2007VER/SCH]
	V	(263–363)	75.5	278		[1999NGU/BER]
	V	(366–468)	57.1	381		[1973WIL/ZWO]
$C_9H_{20}O$	[5932-79-6]	4-nonanol				
	V	(285–324)	71.5 ± 0.3	298	GS	[2007VER/SCH]
$C_9H_{20}O$	[623-93-8]	5-nonanol				
	V	(289–334)	71.4 ± 0.4	298	GS	[2007VER/SCH]
$C_9H_{20}O$	[628-44-4]	2-methyl-2-octanol				
	V	(338–451)	64.6	353		[1973WIL/ZWO]
$C_9H_{20}O$	[26533-34-6]	2-methyl-3-octanol				
	V	(388–453)	49.5	403		[1973WIL/ZWO]
$C_9H_{20}O$	[5340-36-3]	3-methyl-3-octanol				
	V	(353–388)	53.2	368		[1973WIL/ZWO]
$C_9H_{20}O$		2,2-dimethyl-4-heptanol				
	V	(320–445)	50.2	335		[1973WIL/ZWO]
$C_9H_{20}O$	[108-82-7]	2,6-dimethyl-4-heptanol				
	V	(278–321)	65.2 ± 0.3	298	GS	[2005ROG/PIS]
	V	(363–453)	54.5	378		[1973WIL/ZWO]
	V	(374–452)	52.8	389	A, MM	[1987STE/MAL, 1947STR/GAB]
$C_9H_{20}O$	[5340-41-0]	2,2,3-trimethyl-3-hexanol				
	V	(343–441)	55.1	358		[1973WIL/ZWO]
$C_9H_{20}O$	[3452-97-9]	3,5,5-trimethyl-1-hexanol				
	V	(288–324)	67.9 ± 0.4	298	GS	[2005ROG/PIS]
$C_9H_{20}O$	[3970-59-0]	2,4-dimethyl-3-ethyl-3-pentanol				
	V	(369–451)	50.0	384		[1973WIL/ZWO]
$C_9H_{20}O$	[29772-39-2]	2,2,3,4-tetramethyl-3-pentanol				
	V	(329–448)	60.8	344		[1973WIL/ZWO]
$C_9H_{20}O$	[14609-79-1]	di-*tert*-butylmethanol				
	SUB	(274–322)	62.7 ± 0.9	298	GS	[1998VER3]
$C_9H_{20}O$	[14609-79-1]	2,2,4,4-tetramethylpentan-3-ol				
	TRS		1.9	263		
	FUS		7.3	322		[1996DOM/HEA, 1990BAT/JAK]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{20}O$	[3249-47-6]	butyl 1,1-dimethylpropyl ether				
	V	(278–308)	46.1 ± 0.3	298	GS	[1996VER/BEC]
$C_9H_{20}O$	[62108-41-2]	2-methoxy-2,4,4-trimethylpentane				
	V	(381–418)	38.5	396		[2001UUS/POK]
$C_9H_{20}O$	[62108-41-2]	methyl *tert*-octyl ether				
	V		45.3	298		[UR/VER, 2002VER, 2003VER/KRA]
	V		45.33	298	EB	[2001UUS/POK, 2003VER/KRA]
$C_9H_{20}O$	[10100-95-5]	pentyl *tert*-butyl ether				
	V		48.3	298		[UR/VER, 2002VER, 2003VER/KRA]
	V	(319–365)	43.7	334	EB	[1990ROZ/BAR]
	V	(319–365)	46.9 ± 1.0	298	EB	[1990ROZ/BAR]
$C_9H_{20}O$	[10100-95-5]	isobutyl *tert*-amyl ether				
	V		46.3	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_9H_{20}O$		*sec*-butyl *tert*-amyl ether				
	V		46.8	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_9H_{20}O$	[3249-47-6]	butyl *tert*-amyl ether				
	V		48.3	298		[UR/VER, 2002VER, 2003VER/KRA]
$C_9H_{20}O$ S	[3079-27-4]	methyl octyl sulfoxide				
	FUS		36.8		C	[1969COR/GOO]
$C_9H_{20}O_2$	[22419-28-9]	2,6,6-trimethyl-5-oxa-2-heptanol				
	V	(329–454)	53.3	344		[1968KAC/NEM, 1984BOU/FRI]
$C_9H_{20}O_2$	[2568-90-3]	dibutyoxymethane				
	V	(366–452)	47.9	381	EB	[2000PAL/SZA]
	V	(363–452)	48.1	298	EB	[2000PAL/SZA]
$C_9H_{20}O_2$	[18854-58-5]	1-butyoxy-2-propoxyethane				
	V		54.7 ± 0.1	298	C	[1970KUS/WAD]
$C_9H_{20}O_2$	[115-84-4]	2-butyl-2-ethyl-1,3-propanediol				
	FUS		20.8	317.3		[2002STE/CHI]
	V	(424–523)	74.3 ± 0.3	420	EB	[2002STE/CHI]
	V	(424–523)	67.2 ± 0.3	460	EB	[2002STE/CHI]
	V	(424–523)	61.4 ± 0.6	500	EB	[2002STE/CHI]
$C_9H_{20}O_2$	[22419-28-9]	4-*tert*-butoxy-2-methyl-2-butanol				
	V	(367–483)	61.5	382	A	[1987STE/MAL]
$C_9H_{20}O_2$	[3937-56-2]	1,9-nonanediol				
	FUS		36.7	318.7	DSC	[2014BAD/NOW]
	FUS		36.4	319.6	DTA	[1991ACR, 1990KNA/SAB]
	FUS		33.5	318.6	C	[1969COR/GOO]
	SUB		148.7			[1990KNA/SAB]
	V		112.5 ± 0.2	298	CGC	[2006UMN/KWE]
	V		104.4	360	TE	[1994PIA/FER, 2006UMN/KWE]
	V		111.4 ± 7.0	298	TE	[1994PIA/FER, 2006UMN/KWE]
	V		110.0 ± 1.0	323	C	[1990KNA/SAB, 2006UMN/KWE]
	V		112.8 ± 2.1	298	C	[1990KNA/SAB, 2006UMN/KWE]
$C_9H_{20}O_2$	[3089-24-5]	2,2,4-trimethyl-1,6-hexanediol				
	V	(419–541)	68.0	434	A	[1987STE/MAL]
$C_9H_{20}O_2S$	[54581-77-0]	3-(hexylthio)-1,2-propanediol				
	FUS		48.5	290.8	DSC	[1993ACR, 1990VAN/VAN]
$C_9H_{20}O_2S_2$		*meso*-1,3-bis(propylsufinyl)propane				
	FUS		40.58	411.3	DSC	[2001CAL/MEL]
$C_9H_{20}O_2S_2$		racemic 1,3-bis(propylsufinyl)propane				
	FUS		35.15	387.8	DSC	[2001CAL/MEL]

TABLE 12. Phase change enthalpies of C_9 organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	References
$C_9H_{20}O_3$		dipropylene glycol isopropyl ether				
	V	(319–479)	55.0	334	A	[1987STE/MAL, 1947STU]
$C_9H_{20}O_3$	[10305-38-1]	3-(hexyloxy)-1,2-propanediol				
	FUS		10.2	272.9	DSC	[1990VAN/VAN]
$C_9H_{20}O_4$		tripropylene glycol				
	V	(369–541)	63.3	384	A	[1987STE/MAL]
$C_9H_{20}O_4$	[4161-32-4]	3,3'-[1,3-propanediylbis(oxy)]bis-1-propanol				
	FUS		21.15	263.1	DSC	[1991BED/BOO]
$C_9H_{20}O_4$	[78-09-1]	tetraethoxymethane				
	V		52.9 ± 0.2	298	C	[1985MAR/MAN]
$C_9H_{20}S$	[1455-21-6]	1-nonanethiol				
	FUS		33.5	267.7		[1985DEA]
	V	(390–494)	52.6	405	A	[1987STE/MAL, 1999DYK/SVO, 1932ELL/REI]
$C_9H_{20}S$	[13281-11-3]	2-nonanethiol				
	V	(379–482)	50.3	394		[1999DYK/SVO, 1932ELL/REI]
$C_9H_{20}S_2$	[3489-28-9]	1,9-nonanedithiol				
	V	(418–557)	63.6	433	A	[1987STE/MAL, 1999DYK/SVO, 1943HAL/REI]
$C_9H_{21}N$	[2439-54-5]	*N*-methyl octylamine				
	V	(365–508)	49.2	380	A	[1987STE/MAL]
$C_9H_{21}N$	[112-20-9]	nonylamine				
	V	(377–478)	50.7	392	A	[1987STE/MAL]
$C_9H_{21}N$	[102-69-2]	tripropylamine				
	V	(341–475)	45.6	356	A	[1987STE/MAL]
	V		46.2 ± 0.1	298	C	[1969WAD]
$C_9H_{21}NO_3$	[122-20-3]	triisopropanolamine				
	V	(428–573)	73.7	443	A	[1987STE/MAL]
$C_9H_{21}O_4P$	[513-08-6]	tripropylphosphate				
	V	(263–293)	77.8	283	GS	[2014BRO/BUC]
	V	(401–527)	62.7	413	DSC	[2014BRO/BUC]
	V	(401–527)	60.4	453	DSC	[2014BRO/BUC]
	V	(401–527)	58.4	493	DSC	[2014BRO/BUC]
	V	(401–527)	57.2	525	DSC	[2014BRO/BUC]
	V	(394–525)	56.7	409	A	[1987STE/MAL, 1930EVA/DAV]
$C_9H_{21}P$	[2234-97-1]	tripropylphosphine				
	V	(324–368)	39.4 ± 0.2	346		[2001BAE]
$C_9H_{22}ClN_2PS$	[58023-20-4]	*P*-(chloromethyl)-*N,N'*-bis(1-methylpropyl)phosphorothioic diamide				
	V	(333–368)	66.8	348	A	[1987STE/MAL, 1999DYK/SVO, 1975KOR/VIA]
$C_9H_{22}N_2$	[646-24-2]	nonane-1,9-diamine				
	FUS		49.2	310.4	AC	[2004MON/VAN, 2014FUL/RUZ]
	TRS		7.77	301.7		
	FUS		36.24	308.1	DSC	[2002DAL/DEL]
	V	(318–365)	70.6	341	GS	[2011POZ/VER]
	V	(318–365)	75.5 ± 0.3	298	GS	[2011POZ/VER]

TABLE 13. Phase change enthalpies of C_{10} organic compounds

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}Cl_8$	[2234-13-1]	octachloronaphthalene				
	V	(323–423)	96.1	373	GC	[1999LEI/WAN]
$C_{10}Cl_{12}$	[2385-85-5]	mirex				
	V	(343–453)	90.3	398	GC	[1990HIN/BID2]
$C_{10}D_{22}$	[16416-29-8]	decane-d_{22}				
	V		51.8	298	CGC	[2008ZHA/UNH]
$C_{10}F_8$	[313-72-4]	octafluoronaphthalene				
	TRS		2.12	283.6		
	FUS		17.55	358.8	DSC	[1999MIC/NEG]
	SUB	(293–323)	79.4 ± 2.5	308	A	[1987STE/MAL, 1974RAD/KAT]
$C_{10}F_{16}$	[54939-04-7]	perfluorobicyclo[4.4.0]dec-1(6)-ene				
	TRS	(6–300)	0.75	200		
	TRS	(6–300)	1.12	234		
	FUS	(6–300)	10.47	263	AC	[1996DOM/HEA, 1981ZHO/KOS]
	V		45.3 ± 0.1	298	C	[1996VAR/DRU]
$C_{10}F_{18}$	[60433-11-6]	perfluoro(*cis*-decahydronaphthalene)				
	TRS	(6–310)	4.24	232.5		
	FUS	(6–310)	10.3	266.7		[1996DOM/HEA, 1981ZHO/KOS2]
	V		50.4 ± 3.9	298	CGC	[2012HAS/DRA]
	V	(313–415)	43.9	328		[1999DYK/SVO]
	V		46.2 ± 0.1	298	C	[1996VAR/DRU]
	V		46.7 ± 0.6	298	EB	[1981VAR/BUL]
	V		46.2 ± 0.1	298	C	[1981VAR/BUL]
$C_{10}F_{18}$	[60433-12-7]	perfluoro(*trans*-decahydronaphthalene)				
	FUS	(6–310)	17.96	294.6		[1996DOM/HEA, 1981ZHO/KOS2]
	V		51.3 ± 3.9	298	CGC	[2012HAS/DRA]
	V	(315–417)	43.3	330		[1999DYK/SVO]
	V		45.4 ± 0.1	298	C	[1996VAR/DRU]
	V		45.9 ± 0.6	298	EB	[1981VAR/BUL]
	V		45.4 ± 0.1	298	C	[1981VAR/BUL]
$C_{10}F_{18}$	[306-94-5]	perfluorodecalin				
	V	(288–333)	41.5 ± 0.5	298		[2005DIA/GON]
$C_{10}F_{20}$	[35328-43-9]	perfluoro-1-decene				
	V	(315–399)	42.3	330		[1999DYK/SVO]
	V		45.2 ± 0.6	298	EB	[1981VAR/BUL]
$C_{10}F_{20}$	[116667-53-9]	perfluoro(1-methyl-4-isopropyl)cyclohexane				
	V	(339–418)	42.7	354		[1999DYK/SVO]
	V		46.7 ± 0.5	298	EB	[1981VAR/BUL]
$C_{10}F_{20}$	[80274-98-2]	perfluoro(isobutylcyclohexane)				
	V	(327–415)	43.4	342		[1999DYK/SVO]
	V		46.3 ± 0.6	298	EB	[1981VAR/BUL]
	V		46.7 ± 0.1	298	C	[1981VAR/BUL]
$C_{10}F_{20}N_2S$	[77984-27-1]	2,2,3,3,4,4,5,5-octafluoro- 1,1,2,3,4,5-hexahydro-1-[[2,2,2-trifluoro-1-(trifluoromethyl)-1-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]amino]ethyl]imino]thiophene				
	V		29.3	389		[1981ABE/SHR]
$C_{10}F_{22}$	[307-45-9]	perfluorodecane				
	V	(404–543)	34	420	A	[1987STE/MAL, 1967ERM/SKR, 1999DYK/SVO]
$C_{10}F_{22}O$	[464-36-8]	bis(undecafluoropentyl)ether				
	V	(337–411)	49.9 ± 1.5	298	EB	[1989VAR/PAS]
	V		49.5 ± 0.1	298	C	[1989VAR/PAS]
	V	(288–313)	51.5	300	A	[1987STE/MAL, 1999DYK/SVO]
	V		47.3 ± 0.8	298	EB	[1976KOL/SLA]
$C_{10}F_{22}O_8$	[927699-29-4]	perfluoro-2,4,6,8,11,13,15.17-octaoxy-n-octadecane				
	V	(363–437)	61.9 ± 1.2	298	EB	[2006DRU/KRO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}HCl_5F_{14}O_2$	[335-74-0]	2,2,3,4,4,5,6,6,7,8,8,9,10,10-tetradecafluoro-3,5,7,9,10- pentachlorodecanoic acid				
	V	(373–578)	80.6	388	A	[1987STE/MAL, 1957BAR/SEF, 1999DYK/SVO]
$C_{10}HCl_7$	[58863-14-2]	1,2,3,4,5,6,7-heptachloronaphthalene				
	TRS		8.54	454.5		
	FUS		8.75	456	DSC	[2006LAH/PAA]
	V	(323–423)	90.6	373	GC	[1999LEI/WAN]
$C_{10}H_2Cl_6$	[90948-28-0]	1,2,4,5,6,8-hexachloronaphthalene				
	FUS		28.89	449.4	DSC	[2006LAH/PAA]
	V	(323–423)	85.3	373	GC	[1999LEI/WAN]
$C_{10}H_2Cl_6$	[103426-94-4]	1,2,3,5,7,8-hexachloronaphthalene				
	V	(323–423)	85.0	373	GC	[1999LEI/WAN]
$C_{10}H_2Cl_6$	[103426-97-7]	1,2,3,5,6,7-hexachloronaphthalene				
	V	(323–423)	84.5	373	GC	[1999LEI/WAN]
$C_{10}H_2Cl_6$	[103426-96-6]	1,2,3,4,6,7-hexachloronaphthalene				
	V	(323–423)	84.5	373	GC	[1999LEI/WAN]
$C_{10}H_2O_6$	[89-32-7]	1,2,4,5-benzenetetracarboxylic dianhydride (pyromellitic acid dianhydride)				
	TRS		3.38	505.9		
	FUS		32.39	558.9	DSC	[1984WEI/LEF]
	FUS		15.82	557.2	C	[1996DOM/HEA, 1978MAR/CIO]
	SUB		122.3 ± 2.4	298	C	[2007MAT/MIR2]
	SUB		100		TGA	[1999DUT/TAK]
	SUB		100.4	559	V + F	[1975BAG/AND]
	V	(641–665)	79.6	576	A	[1987STE/MAL]
	V	(562–621)	83.4			[1967MUL/MUK]
$C_{10}H_3Cl_5$	[150224-24-1]	1,2,3,5,8-pentachloronaphthalene				
	TRS		14.39	387.8		
	TRS		0.92	443.4		
	FUS		8.44	453.3	DSC	[2006LAH/PAA]
	V	(323–423)	80.5	373	GC	[1999LEI/WAN]
$C_{10}H_3Cl_5$	[53555-65-0]	1,2,3,5,7-pentachloronaphthalene				
	FUS		27.14	444.9	DSC	[2006LAH/PAA]
	V	(323–423)	78.2	373	GC	[1999LEI/WAN]
$C_{10}H_3Cl_5$	[67922-26-3]	1,2,3,4,6-pentachloronaphthalene				
	V	(323–423)	78.9	373	GC	[1999LEI/WAN]
$C_{10}H_3Cl_5$	[150224-16-1]	1,2,3,6,7-pentachloronaphthalene				
	FUS		22.94	416.6	DSC	[2006LAH/PAA]
$C_{10}H_3Cl_5$	[150205-21-3]	1,2,3,7,8-pentachloronaphthalene				
	FUS		17.55	381.6	DSC	[2006LAH/PAA]
$C_{10}H_3Cl_5$	[150224-20-7]	1,2,4,5,6-pentachloronaphthalene				
	TRS		15.64	404.2		
	FUS		8.41	412.7	DSC	[2006LAH/PAA]
$C_{10}H_3Cl_5$	[150224-17-2]	1,2,4,6,7-pentachloronaphthalene				
	FUS		22.58	404.3	DSC	[2006LAH/PAA]
$C_{10}H_3Cl_5$	[150224-22-9]	1,2,4,6,8-pentachloronaphthalene				
	FUS		19.75	429	DSC	[2006LAH/PAA]
$C_{10}H_3F_{17}$	[21652-58-4]	(perfluorooctyl)ethylene				
	V	(254–309)	53.7	254	GS	[2013SCH/BUC]
	V	(254–309)	52.1	272	GS	[2013SCH/BUC]
	V	(254–309)	50.7	291	GS	[2013SCH/BUC]
	V	(254–309)	49.6	309	GS	[2013SCH/BUC]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_4Cl_2O_2$	[117-80-6]	2,3-dichloro-1,4-naphthalenedione				
	FUS		28.53	469	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_4Cl_4$	[67922-21-8]	1,2,4,7-tetrachloronaphthalene				
	V	(323–423)	72.1	373	GC	[1999LEI/WAN]
$C_{10}H_4Cl_4$	[53555-63-8]	1,2,3,5-tetrachloronaphthalene				
	FUS		27.14	453	DSC	[2006LAH/PAA]
	V	(323–423)	73.4	373	GC	[1999LEI/WAN]
$C_{10}H_4Cl_4$	[20020-02-4]	1,2,3,4-tetrachloronaphthalene				
	TRS		10.53	440.5		
	TRS		1.33	454.3		
	FUS		11.54	470.8	DSC	[2006LAH/PAA]
	V	(323–423)	73.2	373	GC	[1999LEI/WAN]
$C_{10}H_4Cl_4$	[149864-82-4]	1,2,7,8-tetrachloronaphthalene				
	FUS		14.62	401.3	DSC	[2006LAH/PAA]
$C_{10}H_4Cl_8O$	[27304-13-8]	2,3,4,5,6,6a,7,7-octachloro-1a,1b,5,5a,6,6a -hexahydro-2,5-methano-2*H*-indeno-[1,2-b]oxirene (oxychlordane)				
	V	(373–403)	75	388	GC	[2007GOE/MCC]
$C_{10}H_5Cl_3$	[50402-52-3]	1,2,3-trichloronaphthalene				
	FUS		18.44	354.7	DSC	[2006LAH/PAA]
	V	(323–423)	68	373	GC	[1999LEI/WAN]
$C_{10}H_5Cl_7$	[76-44-8]	1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro-4,7-endomethanoindene (heptachlor)				
	FUS		20.72	362.2	TGA, DSC	[2000ROD/VEC]
	TRS		23.4	358.2		
	FUS		2.09	371	DSC	[1995KSI/NAG]
	V	(343–453)	76.5	398	GC	[1990HIN/BID2]
$C_{10}H_5Cl_7O$	[1024-57-3]	1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a- tetrahydro-4,7-endo-methanoindan				
	TRS		18.9	385.2		
	FUS		2.85	434.9	DSC	[1995KSI/NAG]
	V	(373–423)	75	398	GC	[2007GOE/MCC]
$C_{10}H_5Cl_9$	[5103-73-1]	*cis*-nonachlor				
	V	(343–453)	83.8	398	GC	[1990HIN/BID2]
$C_{10}H_5Cl_9$	[39765-80-5]	*trans*-nonachlor				
	V	(343–453)	85.5	398	GC	[1990HIN/BID2]
$C_{10}H_5F_{15}O_2$	[3108-24-5]	ethyl perfluorooctanoate				
	V	(254–309)	64.1	263	GS	[2013SCH/BUC]
	V	(254–309)	60.4	278	GS	[2013SCH/BUC]
	V	(254–309)	57.4	293	GS	[2013SCH/BUC]
	V	(254–309)	54.9	308	GS	[2013SCH/BUC]
$C_{10}H_6BrNO_2$	[13380-67-1]	1-(4-bromophenyl)-1*H*-pyrrole-2,5-dione				
	SUB	(350–370)	105.9 ± 0.7		C	[1998KIS/KAS]
$C_{10}H_6Br_2$	[83-53-4]	1,4-dibromonaphthalene				
	FUS		21.0	353.1	DSC	[2015SOL/VAR]
	SUB	(297–322)	90.8 ± 1.7		ME	[2008GOL/SUU2]
$C_{10}H_6Cl_2$	[2050-69-3]	1,2-dichloronaphthalene				
	V	(323–423)	60.7	373	GC	[1999LEI/WAN]
$C_{10}H_6Cl_2$	[1825-31-6]	1,4-dichloronaphthalene				
	V	(323–423)	58.7	373	GC	[1999LEI/WAN]
$C_{10}H_6Cl_4O_4$	[1861-32-1]	dimethyl-2,3,5,6-tetrachloro-1,4-benzenedicarboxylate (chlorthal)				
	FUS		30.23	431.7	DSC	[1991ACR, 1990DON/DRE]
	SUB	(348–433)	104.9 ± 1.4	390	ME, GS	[1981DEP]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_6Cl_8$	[5103-71-9]	*cis*-chlordane				
	V	(323–409)	83	338		[1999DYK/SVO]
	V	(343–453)	82	398	GC	[1990HIN/BID2]
$C_{10}H_6Cl_8$	[5103-74-2]	*trans*-chlordane				
	V	(373–409)	81.7	388		[1999DYK/SVO]
	V	(343–453)	80.7	398	GC	[1990HIN/BID2]
$C_{10}H_6Cl_8$	[5103-71-9]	1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-ethano-1*H*-indene				
	FUS		23.15	379.9	DSC	[1990DON/DRE]
$C_{10}H_6F_3NO_2$	[53518-15-3]	4-trifluoromethyl-7-aminocoumarin				
	FUS		31.7	494.8	DSC	[1991ZHA/HUA]
$C_{10}H_6N_2$	[1436-43-7]	2-cyanoquinoline				
	SUB		89.3 ± 3.3	298	C	[1995RIB/MAT2]
	SUB	(312–326)	93.4 ± 0.7	319	ME	[1995RIB/MAT2]
	SUB	(312–326)	94.4 ± 0.7	298	ME	[1995RIB/MAT2]
$C_{10}H_6N_2$	[34846-64-5]	3-cyanoquinoline				
	SUB		91.3 ± 1.8	298	C	[1995RIB/MAT2]
	SUB	(312–326)	93.4 ± 0.7	319	ME	[1995RIB/MAT2]
	SUB	(312–326)	93.2 ± 0.8	298	ME	[1995RIB/MAT2]
$C_{10}H_6N_2O_4$	[7300-93-8]	1-(3-nitrophenyl)-1*H*-pyrrole-2,5-dione				
	SUB	(350–370)	115.7 ± 0.9		C	[1998KIS/KAS]
$C_{10}H_6N_2O_4$	[4338-06-1]	1-(4-nitrophenyl)-1*H*-pyrrole-2,5-dione				
	SUB	(350–370)	117.3 ± 1.2		C	[1998KIS/KAS]
$C_{10}H_6N_2O_6$	[605-71-0]	1,5-dinitronaphthalene				
	V	(506–642)	74.7	521	A	[1987STE/MAL]
$C_{10}H_6N_2O_6$	[602-38-0]	1,8-dinitronaphthalene				
	TRS		6.3			
	FUS		22.2		DTA	[1961KOZ]
	V	(553–715)	78.5	568	A	[1987STE/MAL]
$C_{10}H_6OS_2$	[49833-12-7]	naphthalene 1,8-disulfide *S*-oxide				
	TRS		3.2	363		
	FUS		23.3	421.2	DSC	[1975CUC]
$C_{10}H_6O_2$	[130-15-4]	1,4-naphthoquinone				
	SUB		91.0 ± 0.8	298	C	[1989RIB/RIB]
	SUB		90.7 ± 2	313	TE, ME	[1981DEK/SMI]
	SUB		72.4 ± 3.8			[1956MAG, 1970COX/PIL]
$(C_{10}H_6O_2)$-$(C_{10}H_8O_2)$	[21414-85-7]	(1,4-naphthoquinone)-(1,4-naphthohydroquinone)				
	SUB		102.3 ± 2	342.4	ME, TE	[1981DEK/SMI]
$2(C_{10}H_6O_2)$-$(C_{10}H_8O_2)$	[66653-77-8]	2(1,4-naphthoquinine)-(1,4-naphthohydroquinone)				
	SUB		88.7 ± 3	328.5	ME, TE	[1981DEK/SMI]
$C_{10}H_6O_4$	[39079-62-4]	chromone-3-carboxylic acid				
	FUS		33.70	475.4	DSC	[2014FLO/XIM]
	FUS		31.42	473.2	DSC	[2010MAT/SOU]
	SUB		113.8 ± 1.2	298	C	[2010MAT/SOU]
$C_{10}H_6O_4$	[531-81-7]	coumarin-3-carboxylic acid				
	FUS		30.95	463.1	DSC	[2010MAT/SOU]
	SUB		118.2 ± 2.7	298	C	[2010MAT/SOU]
$C_{10}H_6S_2$	[209-22-3]	naphthalene 1,8-disulfide				
	FUS		13.0	394.8	DSC	[1975CUC2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_7Br$	[90-11-9]	1-bromonaphthalene				
	FUS		15.16	271.4		[1991ACR, 1981KHA/KHE]
	V	(303–336)	63.9 ± 0.4	298	GS	[2003VER]
	V	(357–555)	58.5	372	A	[1987STE/MAL]
	V	(295–359)	56 ± 6	329	ME	[1980URB/GIG]
[Note: Verevkin [2003VER] noted that the VP reported in [1980URB/GIG] is internally inconsistent.]						
	V	(469–559)	45.8	484	A, EB	[1987STE/MAL, 1976HON/SIN, 1999DYK/SVO]
$C_{10}H_7Br$	[580-13-2]	2-bromonaphthalene				
	TRS		5.76	319		
	FUS		14.4	329		[1996DOM/HEA, 1981CHA/HAG]
	FUS		11.97	322		[1991ACR, 1981KHA/KHE]
	SUB(I)	(280–318)	81.6 ± 0.4	298	GS	[2003VER]
	SUB(II)	(319–328)	78.0 ± 0.6	298	GS	[2003VER]
	SUB		81.2 ± 1.0	298	C	[1993RIB/FER]
	SUB	(275–378)	64 ± 5	298	TE, ME	[1981FER/PIA]
	V	(330–360)	66.1 ± 0.4	298	GS	[2003VER]
	V	(330–378)	42.5	354		[1999DYK/SVO]
	V	(322–359)	40.4	340	ME, TE	[1981FER/PIA]
$C_{10}H_7Cl$	[90-13-1]	1-chloronaphthalene				
	FUS		12.9	270.7		[1991ACR, 1981KHA/KHE]
	V		64.7	298		[2006BOL/NER2]
	V	(289–332)	62.0 ± 0.4	298	GS	[2003VER]
	V		64.0 ± 0.3	298	GS	[2001PUR/CHI]
	V	(323–423)	58.6	373	GC	[1999LEI/WAN]
	V	(353–553)	59.6	368	A	[1987STE/MAL, 1947STU]
$C_{10}H_7Cl$	[91-58-7]	2-chloronaphthalene				
	FUS		13.9	330.7	DSC	[2000MAR/MIK]
	FUS		14.7	332		[1991ACR, 1981KHA/KHE]
	FUS	(5–370)	14.0	331.2	AC	[1991VAN/VER]
	FUS		13.9	332.1	DSC	[1971MAS/CHE]
	SUB	(280–330)	75.7 ± 0.3	298	GS	[2003VER]
	V	(332–362)	62.3 ± 1.1	298	GS	[2003VER]
	V	(400–435)	57.9	417		[1999DYK/SVO]
	V	(323–423)	58.5	373	GC	[1999LEI/WAN]
	V	(400–435)	57.8	415	A	[1987STE/MAL]
	V	(400–435)	66.6	298	A	[1987STE/MAL, 2003VER]
$C_{10}H_7Cl_5O$	[58138-08-2]	2-(3,5-dichlorophenyl)-2-(2,2,2-trichloroethyl)oxirane				
	FUS		18.54	313.2	DSC	[1990DON/DRE]
$C_{10}H_7Cl_7$	[2589-15-3]	1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				
	SUB	(333–353)	83.8	343	A	[1987STE/MAL, 1974BES/CHE, 1999DYK/SVO]
$C_{10}H_7F_3O_2$	[326-06-7]	benzoyltrifluoroacetone				
	SUB	(276–284)	88.0 ± 0.9	280	ME	[1992RIB/MON]
	SUB	(276–284)	87.1 ± 0.9	298	ME	[1992RIB/MON]
$C_{10}H_7F_5O_2$	[24271-51-0]	pentafluoropropionic acid, 3-tolyl ester				
	V	(371–446)	48.5	386	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
$C_{10}H_7F_5O_2$	[24271-52-1]	pentafluoropropionic acid, 4-tolyl ester				
	V	(371–448)	48.3	386	A, EB	[1987STE/MAL, 1969SHE/LAN, 1999DYK/SVO]
$C_{10}H_7I$	[90-14-2]	1-iodonaphthalene				
	FUS		15.91	280		[1991ACR, 1981KHA/KHE]
	V	(303–347)	69.9 ± 0.3	298	GS	[2003VER]
	V	(321–428)	78.9	336		[1999DYK/SVO]
	V	(368–422)	61.0	395	GS	[1980PEL/FER]
	V	(368–422)	65.5 ± 0.5	298	GS	[1980PEL/FER]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(322–370)	66.6 ± 0.5	298	TE	[1980PEL/FER]
	V	(348–356)	65.8 ± 0.1	298	ME	[1980PEL/FER]
$C_{10}H_7I$	[612-55-5]	2-iodonaphthalene				
	FUS		16.04	327.6		[1991ACR, 1981KHA/KHE]
	SUB		90.8			[1956SMI]
	V		69.8 ± 0.5	298	GC	[2003VER]
$C_{10}H_7NO_2$	[86-57-7]	1-nitronaphthalene				
	FUS		17.3	328.9	DSC	[2010KES/AUC]
	FUS		19.28	329.5	DSC	[2008MOG/SEP]
	FUS		18.43	329.9		[1991ACR, 1983WEA]
	SUB	(305–321)	94.4 ± 0.4	313	ME	[2006RIB/AMA3]
	SUB	(305–321)	95.1 ± 0.4	298	ME	[2006RIB/AMA3]
	SUB	(309–326)	U68.5 ± 1.9	318	A	[1987STE/MAL, 1974RAD/KAT]
	SUB	(325–332)	106.9	328.5	A	[1987STE/MAL]
	SUB		107.1 ± 2.1			[1950NIT/SEK, 1970COX/PIL]
	V	(332–580)	66.4	347	A	[1987STE/MAL]
$C_{10}H_7NO_2$	[581-89-5]	2-nitronaphthalene				
	FUS		14.5	348.2	DSC	[2010KES/AUC]
$C_{10}H_7NO_2$	[131-91-9]	1-nitroso-2-naphthol				
	SUB		86.6 ± 4.2		ME	[1968HAM/FAG, 1977PED/RYL]
$C_{10}H_7NO_2$	[132-53-6]	2-nitroso-1-naphthol				
	SUB		56.5 ± 4.2		ME	[1968HAM/FAG, 1977PED/RYL]
$C_{10}H_7NO_2$	[605-60-7]	4-nitroso-1-naphthol				
	SUB		87.4 ± 4.2		ME	[1968HAM/FAG, 1977PED/RYL]
$C_{10}H_7NO_2$	[941-69-5]	1-phenyl-1*H*-pyrrole-2,5-dione				
	SUB	(350–370)	98.1 ± 1		C	[1998KIS/KAS]
$C_{10}H_7N_3S$	[148-79-8]	2-(4-thiazolyl)-1*H*-benzimidazole (thiabendazole)				
	FUS		35.2	573.2	DSC	[2010MUE/ESC, 2010BUS/MEU]
$C_{10}H_8$	[275-51-4]	azulene				
	FUS		17.53	373.5	DSC	[1998CHI/HES]
	SUB		81.1 ± 1.1	298	C	[2014SOU/MAT]
	SUB	(283–326)	78.4 ± 1.3	303	HSA	[1998CHI/HES]
	SUB		72.7	298	CGC-DSC	[1998CHI/HES]
	SUB	(290–372)	82.8	305	A	[1987STE/MAL]
	SUB		82.9	298	A	[1987STE/MAL, 1993CHI/HOS]
	SUB	(253–293)	75.8	273		[1958HOY/PEP]
	SUB		75.3	298	A	[1987STE/MAL, 1993CHI/HOS]
	SUB		76.8 ± 0.2		C	[1972MOR]
	SUB	(293–323)	95.4 ± 0.4	298	ME	[1962BAU/GUN, 1970COX/PIL]
	SUB		67.6			[1947HEI/WIE]
	V		52.8	298	CGC	[1998CHI/HES]
	V	(369–515)	53.0	384	A	[1987STE/MAL]
	V	(442–534)	51.2	457	EB	[1977MEY/GEN]
	V	(373–423)	55.5	373		[1962BAU/GUN]
	V		55.5			[1947HEI/WIE]
$C_{10}H_8$	[91-20-3]	naphthalene				
	FUS		U13.84	353.2	DSC	[2014HAS/JIR]
	FUS		19.5	354.8	DSC	[2013CAR/LUC]
	FUS		18.83	353.4	DSC	[2012CHA/LAY]
	FUS		19.12	353.7		[2012SHA/LAL]
	FUS		18.84	353.7	DSC	[2008MOG/SEP]
	FUS		19.1	353.5	DSC	[2008SHA/GUP]
	FUS		U16.44	353.8	DSC	[2007HAF/MAH]
	FUS		19.55	354.7	DSC	[2006KHI/DAH2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		19.55	354.7	DSC	[2006KHI/DAH]
	FUS		18.71	253.2	DSC	[2004STU/WIT]
	FUS		19.1		DSC	[2003SHA/KAN]
	FUS		19.03	353.4	AC	[2002VAN/VAN3]
	FUS	(5–440)	19.0	353.4	AC	[2002CHI/KNI]
	FUS		18.2	356.2	DSC	[1998RAI/RAI2]
	FUS		19.11		DSC	[1992SHA/SHA]
	FUS		19.1	353.4		[1980AND/CON]
	FUS		19.0	353.3	DSC	[1980RAD/RAD]
	FUS		18.96	353.4	DSC	[1980KRA/PIG]
	FUS		19.1	353.4	DSC	[1991ACR, 1973CAS/VEC]
	FUS		19.1	353.5		[1964RAS/BAS]
	FUS		19.4	351.2	DTA	[1958VAR]
	FUS		18.81	353.4	AC	[1957MAS]
	FUS		19.37	353.5	C	[1955TUN/STO]
	FUS		18.79	353.0		[1950UEB/ORT]
	FUS		18.79	353.4		[1944EIB]
	FUS		19.04	353.4		[1941SCH]
	FUS		19.20	353.0	RC	[1932SPA/THO]
	FUS		19.00	353.2		[1926AND/LYN]
	SUB		69.1 ± 0.3		UV/Vis	[2015HIK/WEE]
	SUB	(303–316)	68.9 ± 0.5	309	UV/Vis	[2013HIK/WEE]
	SUB	(303–348)	69.9		TGA	[2011FEL/RAM]
	SUB	(303–313)	71.8 ± 1.0	308	TGA	[2007SID/ATA]
	SUB		71.7 ± 1.3	298	DSC	[2001ROJ/ORO]
	SUB	(267–303)	88.0 ± 2.5		ME	[1998BOL/WIE]
	SUB		70.4	298	CGC-DSC	[1998CHI/HES]
	SUB	(313–353)	71.7	333	GS	[1995NAS/LEN]
	SUB	(243–273)	73.7 ± 1.0	258	GS	[1994WAN/SHU]
	SUB	(337–352)	78.2 ± 1		GC	[1988KHU]
	SUB		70.9 ± 0.4	323	DSC	[1988TOR/BAR]
	SUB		72.3 ± 0.4	298	DSC	[1988TOR/BAR]
	SUB	(299–331)	73.4	315	GS	[1986SAT/INO]
	SUB	(333–393)	69.9		GS	[1985MAT/KUW2]
	SUB		73.7 ± 0.6			[1985KIS/VEI]
	SUB	(293–331)	72.3 ± 0.8		QR	[1985GLU/ARK]
	SUB	(283–323)	75.8 ± 1.1	303	GS	[1983SON/ZOL]
	SUB		72.6 ± 0.4		DSC	[1983HOL]
	SUB		72.6 ± 0.1	298	TE, ME, DM	[1983VAN/JAC, 1981DEK/KUI]
	SUB	(302–352)	72.8	327	GS	[1982GRA/FOS]
	SUB	(271–285)	72.8 ± 0.3		ME	[1982COL/JIM]
	SUB		72.4 ± 0.7	298	C	[1982MUR/SAK]
	SUB	(274–353)	72.5 ± 0.1		DM	[1981DEK/KUI]
	SUB	(328–398)	76.0 ± 2.0		DSC	[1980MUR/CAV]
	SUB	(253–273)	72.6 ± 0.6	298	TE	[1980DEK]
	SUB	(280–305)	71.3	293	GS	[1979MAC/PRA]
	SUB	(253–273)	74.77 ± 0.4		TE	[1977DEK/VAN]
	SUB	(253–273)	73.9 ± 0.2		ME	[1977DEK/VAN]
	SUB	(303–329)	74.35 ± 1.7		TSGC	[1975MCE/SAN]
	SUB		72.3 ± 0.4		C	[1976FER/PIA]
	SUB	(263–343)	72.5 ± 0.3		DM	[1975AMB/LAW]
	SUB		67.8 ± 3.5	280	HSA	[1975CHI]
	SUB		72.5	298	GS	[1974SIN]
	SUB		72.7 ± 1.7			[1974RAD/KAT]
	SUB	(281–290)	64 ± .5		LE	[1973MCE/SAN]
	SUB		72.1 ± 0.25	298	C	[1972MOR]
	SUB		73.0 ± 0.3	298	C	[1972IRV]
	SUB	(283–323)	72.7		ME	[1971RAD]
	SUB		66.5			[1968KAR/RAB]
	SUB	(230–260)	72.7 ± 0.3		KG	[1963MIL, 1970COX/PIL]
	SUB	(276–283)	66.3		V	[1959AIH]
	SUB	(283–303)	65.8	293	ME	[1958SKL/MAR]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	SUB	(253–283)	69.2	268		[1958HOY/PEP]
	SUB	(273–311)	72.1	292		[1957SHE/BRY]
	SUB	(279–294)	72.4			[1953BRA/CLE2, 1960JON, 1954SEA/HOP]
	SUB		64.0	298	ME	[1951INO]
	SUB	(288–306)	65.7	297	ME	[1940ZIL]
	SUB		66.5 ± 1.7	298	QF	[1938WOL/WEG]
	SUB	(237–276)	76.6			[1926AND]
	SUB	(283–303)	82.0	293	ME	[1925SWA/MAC]
	V		54.6	298	CGC	[2008ZHA/UNH]
	V	(333–403)	60.3 ± 1.1	298	GC	[2006HAF/PAR]
	V	(323–473)	56.1	398	GC	[2002LEI/CHA]
	V	(491–747)	47.6 ± 1.8		DSC	[1998BOL/WIE]
	V		53.4	298	CGC	[1998CHI/HES]
	V	(460–647)	45.4	475	DSC	[1996BAC/GRZ]
	V	(403–453)	56.6	298	CGC	[1995CHI/HOS]
	V		48.7 ± 0.3	400	EB	[1993CHI/KNI]
	V		46.4	440	EB	[1993CHI/KNI]
	V		44.0	480	EB	[1993CHI/KNI]
	V		41.5	520	EB	[1993CHI/KNI]
	V	(513–613)	44.4	528		[1993LEE/HOL]
	V	(418–613)	47.9	423	EB	[1990AMB/EWI]
	V	(352–500)	50.6	367	A	[1987STE/MAL]
	V	(491–565)	44.8	506	A	[1987STE/MAL]
	V	(563–663)	43.2	578	A	[1987STE/MAL]
	V	(661–750)	43.3	676	A	[1987STE/MAL]
	V		51.5		GS	[1985MAT/KUW2]
	V	(441–727)	44.7	466		[1981WIL/JOH]
	V	(353–388)	50.3 ± 0.2	370		[1981DEK/KUI]
	V	(354–453)	50.7	369		[1968FOW/TRU]
	V	(399–491)	49.0	414		[1955CAM/ROS]
	V		51.5			[1952GOT/NIK]
	V		46.4	441	C	[1951BAR/MCC]
	V		48.3	379	I	[1943CRA]
	V	(373–473)	47.2	423	I	[1923MOR/MUR]
	V	(360–494)	47.7	427	I	[1922NEL/SEN]
$C_{10}D_8$	[1146-65-2]	naphthalene-d_8				
	SUB	(282–323)	70.6 ± 0.5	303	GS	[1983SON/ZOL]
	V		54.7	298	CGC	[2008ZHA/UNH]
$C_{10}H_8BrNO_2$	[574-98-1]	*N*-(2-bromoethyl)phthalimide				
	SUB		108.7 ± 1.0	298	C	[2007RIB/SAN3]
$C_{10}H_8Br_2N_2$	[3138-86-1]	2,3-bis(bromomethyl)quinoxaline				
	FUS		32.43	423.6	DSC	[2000MON/HIL2]
	SUB	(351–365)	111.7 ± 0.5	358	ME	[2000MON/HIL2]
	SUB	(351–365)	114.0 ± 2.0	298	ME	[2000MON/HIL2]
$C_{10}H_8Cl\ N$	[5044-38-2]	1-(4-chlorophenyl)pyrrole				
	SUB	(295–311)	88.2 ± 0.7	303	ME	[2010SAN/RIB4]
	SUB	(295–311)	88.5 ± 0.5	298	ME	[2010SAN/RIB4]
$C_{10}H_8ClNO_2$	[6270-06-0]	*N*-(2-chloroethyl)phthalimide				
	SUB		98.4 ± 1.9	298	C	[2007RIB/SAN3]
$C_{10}H_8ClN_3O$	[1698-60-8]	5-amino-4-chloro-2-phenyl-3(2*H*)-pyridazinone				
	FUS		26.75	479.2	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_8ClN_3O_2$	[5707-69-7]	4-(2-chlorophenylhydrazone)-3-methyl-5-isoxazolone				
	FUS		28.04	440.4	DSC	[1990DON/DRE]
$C_{10}H_8ClN_5$	[120356-37-8]	6-chloro-4-pyrimidinyl)hydrazone-(2-pyridinecarboxaldehyde)				
	FUS		50	525.6	DSC	[2013PER/KAZ]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_8Cl_2O_6$	[24648-18-8]	3,6-dichloro-2,5-dihydroxyterephthalate				
	TRS		1.7	380		
	FUS (white)		41.0	455	DSC	[1990RIC/YAN]
	FUS (white)		44.6	461	DSC	[1972BYR/CUR]
	TRS (yellow-white)		2.6	403	DSC	[1972BYR/CUR]
$C_{10}H_8Cl\ N$	[81329-31-9]	1-(4-chlorophenyl)pyrrole				
	SUB	(271–287)	79.8 ± 1.0	279	ME	[2010SAN/RIB4]
	SUB	(271–287)	78.9 ± 1.0	298	ME	[2010SAN/RIB4]
$C_{10}H_8I\ N$	[92636-36-7]	1-(4-iodophenyl)pyrrole				
	SUB	(319–341)	91.5 ± 0.5	330	ME	[2010SAN/RIB4]
	SUB	(319–341)	100.7 ± 0.5	298	ME	[2010SAN/RIB4]
$C_{10}H_8NO_2$	[87-51-4]	indole-3-acetic acid				
	SUB	(313–423)	64.0 ± 1.5	368	ME	[1988TOR/BAR]
$C_{10}H_8N_2$	[366-18-7]	2,2′-bipyridine				
	FUS		20.4	345	DSC	[2009LIP/HAN]
	FUS		19.9	342	DSC	[1986AIR/SIL]
	SUB		81.8 ± 2.3	298	C	[1995RIB/MOR]
	SUB		75.0 ± 5.0	298	B	[1996CHA/EMM]
	SUB		81.9 ± 0.3			[1985SKI/PIL]
	V		67.0 ± 2.3	298	CGC	[2009LIP/CHI, 2009LIP/HAN]
$C_{10}H_8N_2$	[581-47-5]	2,4′-bipyridine				
	FUS		17.4	332.8	DSC	[2009LIP/HAN]
	SUB		87.9 ± 1.7	298	C	[1995RIB/MOR]
	V		70.9 ± 1.6	298	CGC	[2009LIP/CHI, 2009LIP/HAN]
$C_{10}H_8N_2$	[553-26-4]	4,4′-bipyridine				
	FUS		24.7	385.0	DSC	[2015SUR/SIM]
	FUS		16.1	377.5	DSC	[2009LIP/HAN]
	SUB		106.3 ± 2.8	298	C	[1995RIB/MOR]
	V		71.1 ± 2.6	298	CGC	[2009LIP/CHI, 2009LIP/HAN]
$C_{10}H_8N_2$	[3438-48-0]	4-phenylpyrimidine				
	FUS		18.8	334.1	DSC	[2009LIP/HAN]
	V		68.8 ± 2.5	298	CGC	[2009LIP/HAN]
$C_{10}H_8N_2O$	[33421-43-1]	2,2′-bipyridine-*N*-oxide				
	SUB	(319–331)	103.7 ± 0.8	325	ME	[2011SAN/MON]
	SUB	(319–331)	105.1 ± 0.8	298	ME	[2011SAN/MON]
$C_{10}H_8N_2O_2$	[7275-43-6]	2, 2′-bipyridine-*N,N*′-dioxide				
	SUB	(410–450)	125.0 ± 2.0	298	ME	[2011SAN/MON]
$C_{10}H_8N_2O_2$	[3634-83-1]	1,3-bis(isocyanatomethyl)benzene				
	V	(403–473)	46.7	418	A	[1987STE/MAL]
$C_{10}H_8N_2O_2$	[1014-98-8]	1,4-bis(isocyanatomethyl)benzene				
	V	(403–473)	56.9	418	A	[1987STE/MAL]
$C_{10}H_8N_2O_2$	[64711-83-7]	benzene, ethyldiisocyanato (mixed isomers)				
	V	(363–473)	60.7	378	A	[1987STE/MAL, 1977ZHU/MEL]
$C_{10}H_8N_2O_2$	[881-07-2]	8-nitroquinaldine				
	SUB	(346–360)	108.3 ± 0.8	353	ME	[1997RIB/MAT5]
	SUB	(346–360)	111.0 ± 0.8	298	ME	[1997RIB/MAT5]
$C_{10}H_8N_2O_2$	[33265-60-0]	1-(2-nitrophenyl)pyrrole				
	SUB	(306–326)	100.4 ± 0.4	316	ME	[2010SAN/RIB2]
	SUB	(306–326)	101.3 ± 0.4	298	ME	[2010SAN/RIB2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_8N_2O_2$	[4533-42-0]	1-(4-nitrophenyl)pyrrole				
	SUB	(344–366)	109.6 ± 0.4	355	ME	[2010SAN/RIB2]
	SUB	(344–366)	112.4 ± 0.4	298	ME	[2010SAN/RIB2]
$C_{10}H_8N_2O_3$	[6118-65-6]	3-acetamidophthalimide				
	SUB	(428–468)	108.5	443	A	[1987STE/MAL, 1956KLO]
$C_{10}H_8O$	[90-15-3]	1-naphthol				
	FUS	(5–445)	24.26	368.5	AC	[2015CHI/STE]
	FUS		21.77	368.3	DSC	[2015SIN/SIN]
	FUS		20.76	367.2	DSC	[2014HAS/JIR]
	FUS		21.62	368.2	DSC	[2012GUP/AGR]
	FUS		23.54	368.2		[2012SHA/LAL]
	FUS		23.3	368.7	DSC	[2002RAI/PAN]
	FUS		24.4	369.7	DSC	[1998RAI/RAI]
	FUS		23.93		DSC	[1992SHA/SHA]
	FUS		23.47	368.7	DTA	[1992MAN]
	FUS		22.2	367.2	DSC	[1990DON/DRE]
	FUS		23.49	368		[1983WEA]
	FUS		23.33	367.2	C	[1979KHE/LAL, 1991ACR]
	FUS		23.22	369	DSC	[1967PAC]
	FUS		23.47	368.2	C	[1926AND/LYN]
	SUB	(296–313)	91.2 ± 0.4		ME	[1974COL/ROU2]
	SUB	(279–328)	89.1 ± 1.7	304	ME	[1974ARS]
	SUB	(298–312)	93.3	305	A	[1987STE/MAL, 1960AIH]
	SUB	(314–324)	84.3	319	A	[1987STE/MAL, 1960AIH]
[Note: In reference [1960AIH] the author mentions that there may be a small phase transition at 39.4 °C as evidenced in the log P versus 1/T graph.]						
	SUB		91.5 ± 3.8	298	B	[1926AND/LYN, 1970COX/PIL, 1927MAY/BER]
	V	(370–569)	67.3 ± 0.3	380	IPM	[2015CHI/STE]
	V	(370–569)	64.0 ± 0.2	420	IPM	[2015CHI/STE]
	V	(370–569)	60.9 ± 0.2	460	IPM	[2015CHI/STE]
	V	(370–569)	57.8 ± 0.3	500	IPM	[2015CHI/STE]
	V	(370–569)	56.3 ± 0.3	520	IPM	[2015CHI/STE]
	V	(399–556)	58.5	414	A	[1987STE/MAL]
	V	(423–563)	60.8	473		[1927MAY/BER]
$C_{10}H_8O$	[135-19-3]	2-naphthol				
	FUS		21.9	394.2	DSC	[2014HAS/JIR]
	FUS		17.51	392.2	DTA	[2013KAN]
	FUS		21.08	394.2	DSC	[2010AGR/GUP, 2012GUP/AGR]
	FUS		24.1	393.9	DSC	[2008MOG/SEP]
	FUS	(363–413)	20.9	392.5	DSC	[2003ROJ/ORO]
	FUS		21.2	395.2	DSC	[1998RAI/RAI2]
	FUS		17.51	396.2	C	[1979KHE/LAL]
	FUS		18.79	393.6	C	[1991ACR, 1926AND/LYN]
	SUB		85.5 ± 1.2	298	DSC	[2003ROJ/ORO]
	SUB	(305–323)	94.2 ± 0.5		ME	[1974COL/ROU2]
	SUB	(277–324)	87.4 ± 2.5	300	ME	[1974ARS]
	SUB	(283–323)	78.7 ± 0.8	298		[1968KAR/RAB, 1977PED/RYL, 1987STE/MAL]
	SUB	(298–312)	97.8	305	A	[1987STE/MAL, 1960AIH]
	SUB	(314–332)	87.8	323	A	[1987STE/MAL, 1960AIH]
[Note: In reference [1960AIH] the author mentions that there may be a small phase transition at 39.1 °C as evidenced in the log P versus 1/T graph.]						
	SUB		83.0 ± 3.8	298	B	[1926AND/LYN, 1927MAY/BER, 1970COX/PIL]
	V	(393–433)	76.2	298	CGC	[1995CHI/HOS]
	V	(401–561)	59.7	416	A	[1987STE/MAL]
	V	(426–473)	64.2	449	EB	[1974MAN/LOG]
	V	(417–561)	59.7	432		[1955VON/GEB]
	V	(423–563)	61.8	473		[1927MAY/BER]
$C_{10}H_8O$	[4759-11-9]	1,6-oxido[10]annulene				
	SUB		80.4 ± 8.4		B	[1969BRE/HAG, 1977PED/RYL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_8OS_3$	[532-11-6]	5-(4-methoxyphenyl)-3*H*-1,2-dithiole-3-thione				
	FUS		24.39	382.2	DSC	[1999DOL/LEC]
$C_{10}H_8O_2$	[571-60-8]	1,4-naphthohydroquinone				
	SUB		119 ± 1	381	ME, TE	[1981DEK/SMI]
$C_{10}H_8O_2$	[574-00-5]	1,2-dihydroxynaphthalene				
	SUB		109.3 ± 0.9	298	C	[1988RIB/RIB]
$C_{10}H_8O_2$	[132-86-5]	1,3-dihydroxynaphthalene				
	SUB		116.0 ± 1.1	298	C	[1988RIB/RIB]
$C_{10}H_8O_2$	[92-44-4]	2,3-dihydroxynaphthalene				
	SUB		109.6 ± 1.0	298	C	[1988RIB/RIB]
	SUB	(341–359)	109.4 ± 0.5	350	ME	[1979COL/JIM2]
$C_{10}H_8O_3$	[90-33-5]	4-methyl-7-hydroxycoumarin				
	FUS		31.41	462.0	DSC	[2011AMA/PIN]
	FUS		29.14	460.7	DSC	[1996DOM/HEA, 1989ZHA/HUA]
$C_{10}H_8O_3$	[531-59-9]	7-methoxycoumarin				
	FUS		23.16	391.0	DSC	[2010MOR/SOU]
	SUB		107.3 ± 1.8	298	C	[2010MOR/SOU]
$C_{10}H_8O_4$	[32846-66-5]	pentacyclo[4.2.0.0^{2,5}.0^{3,8}.0^{4,7}]octane-1,4-dicarboxylic acid (1,4-cubanedicarboxylic acid)				
	FUS		17.4	495.0	DSC	[2011ROU/MAR]
	V		122.5 ± 8.0	298	CGC	[2011ROU/MAR]
$C_{10}H_9Br$	[207844-51-7]	bromobullvalene				
	FUS		14.2	317.2	DSC	[1998LUS/OLI]
$C_{10}H_9Cl$	[27576-94-9]	chlorobullvalene				
	FUS		13.5	287.2	DSC	[1998LUS/OLI]
$C_{10}H_9Cl_2NO$	[2164-09-2]	*N*-(3,4-dichlorophenyl)-2-methyl-2-propenamide				
	FUS		32.04	395.5	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_9Cl_3O_3$	[1928-39-8]	(2,4,5-trichlorophenoxy)acetic acid, ethyl ester				
	V	(444–573)	76.4	459	A	[1987STE/MAL, 1999DYK/SVO]
	V	(444–573)	68.7	508	GC	[1966JEN/SCH]
$C_{10}H_9Cl_3O_3$	[4841-20-7]	methyl 2-(2,4,5-trichlorophenoxy)propionate				
	FUS		31.95	360.6	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_9Cl_3O_3$	[93-80-1]	4-(2,4,5-trichlorophenoxy)butanoic acid				
	FUS		30.28	386.7	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_9Cl_4NO_2S$	[2425-06-1]	*N*-[(1,1,2,2-tetrachloroethyl)thio]-4-cyclohexene-1,2-dicarboximide				
	FUS		40.22	432.7	DSC	[1990DON/DRE]
	FUS		43.1	432	DSC	[1969PLA/GLA]
$C_{10}H_9I$	[207844-52-8]	iodobullvalene				
	FUS		15.5	376.2	DSC	[1998LUS/OLI]
$C_{10}H_9IO_2$	[122200-58-2]	methyl-4-iodocubanecarboxylate				
	FUS		22.3	395	DSC	[2010GRI/TSA]
$C_{10}H_9N$	[91-63-4]	2-methylquinoline (quinaldine)				
	FUS		12.52	270.5	AC, DSC	[2005CHI/STE]
	V	(319–553)	62.6 ± 0.1	298	IPM, EB	[2005CHI/STE]
	V	(319–553)	61.0 ± 0.1	320	IPM, EB	[2005CHI/STE]
	V	(319–553)	58.2 ± 0.1	360	IPM, EB	[2005CHI/STE]
	V	(319–553)	55.6 ± 0.1	400	IPM, EB	[2005CHI/STE]
	V	(319–553)	53.0 ± 0.1	440	IPM, EB	[2005CHI/STE]
	V	(319–553)	50.4 ± 0.1	480	IPM, EB	[2005CHI/STE]
	V	(319–553)	47.7 ± 0.2	520	IPM, EB	[2005CHI/STE]
	V		66.1 ± 1.9	298	C	[1995RIB/MAT]
	V	(281–313)	61.2	297	GS	[1980VAN/PRA]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(443–521)	54.7	548	A, EB	[1987STE/MAL, 1961MAL2, 1961MAL]
$C_{10}H_9N$	[612-58-8]	3-methylquinoline				
	V	(443–528)	55.8	458	A	[1987STE/MAL, 1961MAL2]
	V	(449–528)	55.1	466		[1964MAL/WEC]
$C_{10}H_9N$	[491-35-0]	4-methylquinoline (lepidine)				
	V		67.6 ± 1.8	298	C	[1995RIB/MAT]
	V	(463–539)	58.2	478	A, EB	[1987STE/MAL, 1961MAL2, 1961MAL]
$C_{10}H_9N$	[91-62-3]	6-methylquinoline				
	V		67.7 ± 1.8	298	C	[1995RIB/MAT]
	V	(453–540)	56.1	468	A	[1987STE/MAL]
	V	(459–540)	55.7	474		[1964MAL/WEC]
$C_{10}H_9N$	[612-60-2]	7-methylquinoline				
	V	(493–532)	56.7	508	A, EB	[1987STE/MAL, 1961MAL]
$C_{10}H_9N$	[611-32-5]	8-methylquinoline				
	FUS		10.73	246.9	AC, DSC	[2005CHI/STE]
	V	(324–553)	62.1 ± 0.1	298	IPM, EB	[2005CHI/STE]
	V	(324–553)	59.2 ± 0.1	340	IPM, EB	[2005CHI/STE]
	V	(324–553)	56.6 ± 0.1	380	IPM, EB	[2005CHI/STE]
	V	(324–553)	54.0 ± 0.1	420	IPM, EB	[2005CHI/STE]
	V	(324–553)	51.3 ± 0.1	460	IPM, EB	[2005CHI/STE]
	V	(324–553)	49.0 ± 0.2	500	IPM, EB	[2005CHI/STE]
	V	(324–553)	46.2 ± 0.3	540	IPM, EB	[2005CHI/STE]
	V		65.7 ± 1.9	298	C	[1995RIB/MAT]
	V	(493–523)	52.2	508	A, EB	[1987STE/MAL, 1961MAL]
$C_{10}H_9N$	[134-32-7]	1-naphthylamine				
	FUS		13.3	321.2	DSC	[2014HAS/JIR]
	FUS		16.18	323	DSC	[1993TIE, 2007VER/GEO]
	FUS		13.30		DSC	[1992SHA/SHA]
	FUS		14.49	323.2	C	[1979KHE/LAL, 1991ACR]
	FUS		14.0	322.2	DTA	[1958VAR]
	SUB	(290–320)	88.1 ± 0.4	298	GS	[2007VER/GEO]
	SUB		90.0 ± 4.2		TE	[1947BAL, 1970COX/PIL]
	V	(323–353)	73.3 ± 0.4	298	GS	[2007VER/GEO]
	V	(377–574)	63.6	392	A	[1987STE/MAL, 1947STU]
$C_{10}H_9N$	[91-59-8]	2-naphthylamine				
	FUS		25.8		DTA	[1999RAI/SHE]
	FUS		23.61	386.2	C	[1979KHE/LAL]
	FUS		23.33	386.2		[1991ACR, 1970CHA/BOU]
	SUB	(283–323)	73.9	298	A	[1987STE/MAL]
	SUB		74.1 ± 1.7		ME	[1968KAR/RAB, 1977PED/RYL]
	SUB		88.3 ± 4.2			[1947STU, 1970COX/PIL]
	V	(388–579)	63.5	403	A	[1987STE/MAL, 1947STU]
$C_{10}H_9N$	[635-90-5]	1-phenylpyrrole				
	SUB	(271–287)	81.8 ± 0.6	279	ME	[2010SAN/RIB]
	SUB	(271–287)	80.8 ± 0.6	298	ME	[2010SAN/RIB]
$C_{10}H_9NO$	[5263-87-6]	6-methoxyquinoline				
	V		78.1 ± 2.3	298	C	[2003RIB/SAN]
$C_{10}H_9NO$	[5343-98-6]	β− cyanopropiophenone				
	SUB	(318–333)	101.7 ± 4.2		ME	[1969LEB/DNE, 1977PED/RYL]
	SUB	(318–333)	108.5	325.5	A	[1987STE/MAL]
$C_{10}H_9NO$	[18615-86-6]	2-methyl-4-hydroxyquinoline				
	SUB	(424–442)	132.2 ± 1.0	433	ME	[1990RIB/MAT]
	SUB	(424–442)	139.0 ± 1.0	298	ME	[1990RIB/MAT]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_9NO$	[826-81-3]	2-methyl-8-hydroxyquinoline				
	SUB	(296–307)	90.4 ± 0.7	298	ME	[1989RIB/MON]
	SUB		87.2 ± 1.9	298	C	[1989RIB/MON]
	SUB	(308–333)	87.9		ME	[1987STE/MAL, 1963HOR/WEN]
$C_{10}H_9NO$	[607-66-9]	4-methyl-2-hydroxyquinoline				
	SUB	(391–405)	123.1 ± 1.6	398	ME	[1990RIB/MAT]
	SUB	(391–405)	128.1 ± 1.6	298	ME	[1990RIB/MAT]
$C_{10}H_9NO_2$	[87-51-4]	indole-3-acetic acid				
	SUB	(313–423)	64.0 ± 1.4 U	368	ME	[1988GAL/GON]
$C_{10}H_9NO_2$	[26093-31-2]	4-methyl-7-aminocoumarin				
	FUS		32.09	499.9	DSC	[1996DOM/HEA, 1989ZHA/HUA]
$C_{10}H_9NO_2$	[5022-29-7]	*N*-ethylphthalimide				
	SUB		90.9 ± 1.2	298	C	[2006RIB/SAN]
$C_{10}H_9NO_2$	[6563-13-9]	6-methoxyquinoline *N*-oxide				
	SUB		117.9 ± 1.0	298	C	[2003RIB/SAN]
$C_{10}H_9NO_2$	[942-24-5]	methyl 1*H*-indole-3-carboxylate				
	SUB	(353–375)	114.6 ± 0.9	364	ME	[2016CAR/AMA]
	SUB	(353–375)	116.8 ± 0.9	298	ME	[2016CAR/AMA]
$C_{10}H_9N_3O_2$	[929692-87-5]	2-carbamoyl-3-methylquinoxaline *N*-oxide				
	SUB		138.0 ± 0.6	298	C	[2012VIV/FRE]
$C_{10}H_9N_3O_3$	[23433-66-1]	3-methylquinoxaline-2-carboxamide-1,4-dioxide				
	SUB		166.6 ± 3.7	298	ME	[2007GOM/SOU2]
$C_{10}H_{10}$	[5603-34-9]	pentacyclo[4.4.0.0^{2,5}0^{3,8}0^{4,7}]dec-9-ene (basketene)				
	FUS		2.72	331.8	DSC	[2002VER/KUM]
	SUB	(274–313)	55.4 ± 0.5	294	GS	[2002VER/KUM]
	SUB	(274–313)	55.3 ± 0.5	298	GS	[2002VER/KUM]
$C_{10}H_{10}$	[21604-76-2]	tricyclo[4.2.2.0^{2,5}]dec-3,7,9-triene				
	FUS		1.46	293.7	DSC	[2002VER/KUM]
	V	(296–326)	47.2 ± 0.4	311	GS	[2002VER/KUM]
	V	(296–326)	47.9 ± 0.4	298	GS	[2002VER/KUM]
$C_{10}H_{10}$	[26934-61-2]	2,2a,2b,3,5a,5b-hexahydro-1,2,3-metheno-1*H*-cycloprop[cd]indene (snoutene)				
	FUS		7.87	334	DSC	[2002VER/KUM]
	SUB	(274–313)	58.9 ± 0.4	294	GS	[2002VER/KUM]
	SUB	(274–313)	58.7 ± 0.4	298	GS	[2002VER/KUM]
$C_{10}H_{10}$	[108-57-6]	1,3-divinylbenzene				
	V	(305–453)	48.3	320	A	[1987STE/MAL, 1947STU]
$C_{10}H_{10}$	[77-73-6]	dicyclopentadiene				
	V	(307–440)	42.4	322		[1947STU]
$C_{10}H_{10}$	[447-53-0]	1,2-dihydronaphthalene				
	FUS	(5–444)	10.53	264.4	AC	[2008CHI/STE]
[Note: The authors report two solid/solid phase transitions having negligible enthalpy of transition.]						
	V		54.8 ± 0.1	298	IPM, EB	[2008CHI/STE]
	V		53.4 ± 0.1	320	IPM, EB	[2008CHI/STE]
	V		50.8 ± 0.1	360	IPM, EB	[2008CHI/STE]
	V		48.4 ± 0.1	400	IPM, EB	[2008CHI/STE]
	V		45.9 ± 0.1	440	IPM, EB	[2008CHI/STE]
	V	(274–319)	51.9 ± 0.4	296	GS	[1999VER6]
	V	(274–319)	51.9 ± 0.4	298	GS	[1999VER6]
$C_{10}H_{10}$	[612-17-9]	1,4-dihydronaphthalene				
	FUS		9.35	298.1	DSC	[1999VER6]
	SUB		63.6 ± 1.6	298		[1999VER6]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(300–333)	53.2 ± 0.4	296	GS	[1999VER6]
	V	(300–333)	54.2 ± 0.4	298	GS	[1999VER6]
$C_{10}H_{10}$	[5187-81-5]	diisopropenyldiacetylene				
	V		50.2			[1977LEB/RYA]
$C_{10}H_{10}$	[1005-51-2]	bullvalene				
	FUS	(5–450)	15.25	366.5	AC, DSC	[1996DOM/HEA, 1980FAL]
	SUB		71.8	298	C	[1981MAN/SUN]
$C_{10}H_{10}$	[6053-74-3]	tricyclo[5.2.1.0^{4,10}]deca-2,5,8-triene				
	V	(291–326)	47.3 ± 0.7	308	GS	[1998VER/BEC2]
$C_{10}H_{10}Cl_2O_3$	[533-23-3]	(2,4-dichlorophenoxy)acetic acid, ethyl ester				
	V	(444–573)	72.6	459	A	[1987STE/MAL, 1999DYK/SVO]
	V	(444–573)	66.3	508	GC	[1966JEN/SCH
$C_{10}H_{10}Cl_2O_3$	[94-82-6]	4-(2,4-dichlorophenoxy)butyric acid				
	FUS		35.0	395.5	DSC	[2005VEC/BRU]
	FUS		38.42	391.4	DSC	[1991ACR, 1990DON/DRE]
	SUB		124 ± 6	298	DSC	[2005VEC/BRU]
	SUB	(356–391)	146 ± 1	374	TE	[2005VEC/BRU]
	SUB	(356–391)	149 ± 2	298	TE	[2005VEC/BRU]
$C_{10}H_{10}N_2$	[2243-62-1]	1,5-diaminonaphthalene				
	SUB	(367–389)	118.5 ± 0.9	378	ME	[2010RIB/FER]
	SUB	(367–389)	122.5 ± 0.9	298	ME	[2010RIB/FER]
	SUB	(345–371)	120.2 ± 0.7	298	GS	[2007VER/GEO]
$C_{10}H_{10}N_2$	[479-27-6]	1,8-diaminonaphthalene				
	FUS		16.15	339.8	DSC	[2007VER/GEO]
	SUB	(314–338)	97.6 ± 0.7	326	ME	[2010RIB/FER]
	SUB	(314–338)	99.0 ± 0.7	298	ME	[2010RIB/FER]
	SUB	(304–335)	94.1 ± 0.4	298	GS	[2007VER/GEO]
	V	(339–379)	79.6 ± 0.3	298	GS	[2007VER/GEO]
$C_{10}H_{10}N_2$	[10199-67-4]	1-benzylpyrazole				
	V		73.8 ± 2.0	298	C	[1999MO/YAN]
$C_{10}H_{10}N_2$	[2379-55-7]	2,3-dimethylquinoxaline				
	FUS		22.35	379.5	DSC	[2000MON/HIL2]
	SUB	(294–308)	87.7 ± 0.4	301	ME	[2000MON/HIL2]
	SUB		87.8 ± 0.4	298	ME	[2000MON/HIL2]
	SUB		85.8 ± 1.8	298	C	[1996RIB/MOR]
$C_{10}H_{10}N_2$	[6628-04-2]	4-aminoquinaldine				
	SUB	(352–373)	112.1 ± 0.8	363	ME	[1998RIB/CAR]
	SUB	(352–373)	115.3 ± 0.8	298	ME	[1998RIB/CAR]
$C_{10}H_{10}N_2$	[4238-71-5]	1-benzylimidazole				
	FUS		21.5	343.9	DSC	[2010LIP/PLI]
	SUB	(262–282)	102.1 ± 0.4	298	ME	[1999MO/YAN]
	V		79.2 ± 2.7	298	CGC	[2010LIP/PLI]
$C_{10}H_{10}N_2$	[6025-60-1]	1-(2-aminophenyl)pyrrole				
	SUB	(296–318)	98.3 ± 0.4	307	ME	[2011SAN/RIB2]
	SUB	(296–318)	98.8 ± 0.4	298	ME	[2011SAN/RIB2]
$C_{10}H_{10}N_2O_2$	[6118-66-7]	3-dimethylaminophthalimide				
	SUB	(392–431)	90.9	407	RG	[1987STE/MAL, 1956KLO]
$C_{10}H_{10}N_2O_2$	[5432-74-6]	2,3-dimethylquinoxaline 1,4-dioxide				
	SUB		124.4 ± 2.7	298	C	[2004RIB/GOM2]
$C_{10}H_{10}N_2O_5$	[143248-63-9]	2,3-dihydro-3-[2-(nitrooxy)ethyl]-4*H*-1,3-benzoxazin-4-one				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		23.0	326.3	DSC	[1996FON/ROS]
$C_{10}H_{10}N_4O_2S$	[68-35-9]	4-amino-N-(2-pyrmidinyl)benzene sulfonamide (sulfadiazine)				
	FUS		44.3	532.7	DSC	[2003MAR/AVI, 2002MAR/GOM, 2001MAR/GOM]
	FUS		44.3	520.4		[1985MAR/WU]
	FUS		43.3	530.2	DSC	[1983KHA]
	FUS		31.2	538.7	DTA	[1971SUN/EIS]
$C_{10}H_{10}O$	[101-39-3]	2-methyl-3-phenyl-2-propenal				
	V	(401–556)	59.3 ± 0.2	400	EB	[2002STE/CHI4]
	V	(401–556)	56.3 ± 0.2	440	EB	[2002STE/CHI4]
	V	(401–556)	53.4 ± 0.2	480	EB	[2002STE/CHI4]
	V	(401–556)	50.5 ± 0.4	520	EB	[2002STE/CHI4]
	V	(401–556)	47.7 ± 0.6	560	EB	[2002STE/CHI4]
	V	(343–393)	71.5	358	A	[1987STE/MAL]
$C_{10}H_{10}O$	[122-57-6]	4-phenyl-3-buten-2-one				
	V	(354–534)	58.5	369	A	[1987STE/MAL, 1947STU]
$C_{10}H_{10}O$	[529-34-0]	1-tetralone				
	V	(284–324)	65.0 ± 0.3	298	GS	[1998VER4]
	V	(388–535)	61.5	403	A	[1987STE/MAL, 1971YAK/BLY]
$C_{10}H_{10}O$	[530-93-8]	2-tetralone				
	V		73.0 ± 1.1	298	C	[2008MAT/SOU3]
$C_{10}H_{10}O_2$	[1754-62-7]	*trans*-cinnamic acid, methyl ester				
	FUS		33.1	309		[2002STE/CHI4]
	V	(409–557)	59.9 ± 0.2	420	EB	[2002STE/CHI4]
	V	(409–557)	56.9 ± 0.2	460	EB	[2002STE/CHI4]
	V	(409–557)	53.8 ± 0.3	500	EB	[2002STE/CHI4]
	V	(409–557)	50.5 ± 0.5	540	EB	[2002STE/CHI4]
$C_{10}H_{10}O_2$	[103-26-4]	cinnamic acid, methyl ester				
	V	(288–333)	62.4	303	A	[1987STE/MAL]
	V	(350–536)	58.3	365	A	[1987STE/MAL, 1947STU]
$C_{10}H_{10}O_2$	[6781-42-6]	1,3-diacetylbenzene				
	V	(323–418)	43.2	338	A	[1987STE/MAL]
	V	(323–433)	47.2			[1967KHO/BYK]
$C_{10}H_{10}O_2$	[1009-61-6]	1,4-diacetylbenzene				
	V	(388–431)	82.2	403	A	[1987STE/MAL]
	V	(323–433)	75.6			[1967KHO/BYK]
$C_{10}H_{10}O_2$	[120-58-1]	isosafrole				
	V	(393–531)	59.4	408	A	[1987STE/MAL]
$C_{10}H_{10}O_2$	[1199-77-5]	α-methylcinnamic acid				
	V	(398–561)	78.5	413	A	[1987STE/MAL, 1947STU]
$C_{10}H_{10}O_2$	[1963-36-6]	4-methoxycinnamaldehyde				
	FUS		19.0	332.7	DSC	[2008TEM/ROU]
$C_{10}H_{10}O_2$	[94-59-7]	safrole				
	V	(336–506)	54.6	351	A	[1987STE/MAL, 1947STU]
$C_{10}H_{10}O_2$	[15844-05-0]	4-carboxypentacyclo[4.3.0.0.^{2,5}0^{4,7}]nonane				
	V		82.0		C	[1984BEC/RUC]
$C_{10}H_{10}O_2$	[93-91-4]	1-phenyl-1,3-butanedione				
	SUB	(292–302)	91.1 ± 0.6	297	ME	[1992RIB/MON]
	SUB	(292–302)	91.0 ± 0.6	298	ME	[1992RIB/MON]
	SUB	(278–300)	83.7	289	V	[1987STE/MAL, 1959AIH]
$C_{10}H_{10}O_2$	[28315-93-7]	5-hydroxy-α-tetralone				
	FUS		33.67	480.1	DSC	[2009MAT/SOU3]
	SUB		118.5 ± 1.5	298	C	[2009MAT/SOU3]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{10}O_2$	[3470-50-6]	6-hydroxy-α-tetralone				
	TRS		13.02	387.5		
	FUS		18.98	425.9	DSC	[2009MAT/SOU3]
	SUB		117.5 ± 1.4	298	C	[2009MAT/SOU3]
$C_{10}H_{10}O_2$	[39513-75-2]	6-methyl-4-chromanone				
	FUS		14.88	307.8	DSC	[2014FLO/XIM]
$C_{10}H_{10}O_2S$	[16192-08-8]	*p*-tolyl propadienyl sulfone				
	SUB		113 ± 2.5		B	[1969MAC/STE, 1970COX/PIL]
$C_{10}H_{10}O_2S$	[14027-53-3]	*p*-tolyl prop-1-ynyl sulfone				
	SUB		103.3 ± 2.5		B	[1969MAC/STE, 1970COX/PIL]
$C_{10}H_{10}O_2S$	[16192-07-7]	*p*-tolyl prop-2-ynyl sulfone				
	SUB		107.5 ± 2.5		B	[1969MAC/STE, 1970COX/PIL]
$C_{10}H_{10}O_3$	[14737-91-8]	*cis*-2-methoxycinnamic acid				
	SUB	(339–352)	121.7 ± 0.6	298	ME	[1999MON/HIL]
$C_{10}H_{10}O_3$	[3943-97-3]	methyl 4-hydroxycinnamate				
	FUS		30.22	410.7	DSC	[2010PAN/SAR]
$C_{10}H_{10}O_3$	[1011-54-7]	*trans*-2-methoxycinnamic acid				
	SUB	(368–382)	128.8 ± 0.6	298	ME	[1999MON/HIL]
$C_{10}H_{10}O_3$	[6099-03-2]	2-methoxycinnamic acid				
	FUS		32.54	458.7	DSC	[1994HUA/CHE]
$C_{10}H_{10}O_3$	[17570-26-2]	*trans*-3-methoxycinnamic acid				
	SUB	(353–367)	124.0 ± 0.9	298	ME	[1999MON/HIL]
$C_{10}H_{10}O_3$	[6099-04-3]	3-methoxycinnamic acid				
	FUS		22.58	390.5	DSC	[1994HUA/CHE]
$C_{10}H_{10}O_3$	[943-89-5]	*trans*-4-methoxycinnamic acid				
	SUB	(369–383)	134.0 ± 1.0	298	ME	[1999MON/HIL]
$C_{10}H_{10}O_3$	[830-09-1]	4-methoxycinnamic acid				
	TRS		24.75	446.4		
	FUS		2.49	461.9	DSC	[1994HUA/CHE]
$C_{10}H_{10}O_3$	[2879-20-1]	6-acetylbenzodioxan				
	FUS		23.49	356	DSC	[2008MAT/SOU2]
	SUB		102.5 ± 1.1	298	C	[2008MAT/SOU2]
$C_{10}H_{10}O_3$	[24327-08-0]	*endo*-bicyclo[2.2.2]oct-5-ene-2,3-dicarboxylic anhydride				
	TRS		18.19	382.9		
	FUS		4.54	419.2	DSC	[1984WEI/LEF]
$C_{10}H_{10}O_3$	[830-09-1]	3-(4-methoxyphenyl)acrylic acid				
	SUB	(394–422)	150.2 ± 5.5	408	ME	[2014DIB/RAE]
	SUB	(394–422)	154.6 ± 5.5	298	ME	[2014DIB/RAE]
$C_{10}H_{10}O_4$	[635-67-6]	1,2-diacetoxybenzene				
	V	(371–551)	62.9	386	A	[1987STE/MAL]
$C_{10}H_{10}O_4$	[1459-93-4]	dimethyl isophthalate				
	FUS		30.15	341.5	DSC	[1997STE/CHI2]
	FUS		25.3	341.2	DSC	[1993ACR, 1978DOZ/FUJ]
	SUB	(295–309)	100.7 ± 0.2	302	ME	[1998ROU/JIM]
	SUB	(295–309)	100.9 ± 0.2	298	ME	[1998ROU/JIM]
	SUB		100.7	298	C	[1998MAK/KAB]
	V		79.4 ± 2.8	298	CGC	[2014GOB/CHI]
	V	(350–607)	77.2 ± 0.8	298	EB, IPM	[1997STE/CHI2]
	V	(350–607)	71.6 ± 0.7	360	EB, IPM	[1997STE/CHI2]
	V	(350–607)	68.1 ± 0.6	400	EB, IPM	[1997STE/CHI2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(350–607)	64.7 ± 0.5	440	EB, IPM	[1997STE/CHI2]
	V	(350–607)	61.3 ± 0.5	480	EB, IPM	[1997STE/CHI2]
	V	(350–607)	57.7 ± 0.5	520	EB, IPM	[1997STE/CHI2]
	V	(350–607)	53.9 ± 0.7	560	EB, IPM	[1997STE/CHI2]
	V	(393–550)	60.5	408	A, GS	[1987STE/MAL, 1963VOI]
$C_{10}H_{10}O_4$	[131-11-3]	dimethyl phthalate				
	FUS		16.95	274.2		[1998MAK/KAB, 1986RAB/NOV]
	FUS		15.7	273.2	DSC	[1993ACR, 1978DOZ/FUJ]
	V		84.2 ± 3.4	298	CRT	[2015GOB/CHI]
	V		66.4 ± 12	298	CGC	[2015GOB/CHI]
	V		76.7 ± 1.7	298	CGC	[2014GOB/CHI]
	V	(466–518)	61.5	481	EB	[1999ROH/MUS]
	V		69.4 ± 0.1	365	C	[1998MAK/KAB]
	V		72.5 ± 0.6	344	C	[1998MAK/KAB]
	V		74.5 ± 0.3	326	C	[1998MAK/KAB]
	V	(304–371)	78.7	319	A	[1987STE/MAL]
	V	(371–547)	63.7	386	A	[1987STE/MAL]
	V	(377–440)	68.6	409		[1969DAV/MAK]
	V		64.8		Static	[1968DAV/BAT]
	V		78.7			[1948SMA/SMA]
$C_{10}H_{10}O_4$	[120-61-6]	dimethyl terephthalate				
	FUS		34.87	414.3	DSC	[2013ZHA/XIA]
	FUS		32.9	413.8	DSC	[1993ACR, 1978DOZ/FUJ]
	FUS		31.63	413.7	AC	[1968ELL/CHR]
	SUB	(311–330)	103.8 ± 0.3	321	ME	[1998ROU/JIM]
	SUB	(311–330)	104.6 ± 0.3	298	ME	[1998ROU/JIM]
	SUB	(373–413)	94.4	388	A	[1987STE/MAL]
	SUB	(373–413)	88.3	393	GS	[1962KRA/BER]
	SUB		105.3		C	[1998MAK/KAB]
	V		78.6 ± 1.1	298	CGC	[2014GOB/CHI]
	V	(413–523)	62.0	428	A	[1987STE/MAL]
$C_{10}H_{10}O_4$	[1135-24-6]	3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid (ferulic acid)				
	FUS		34.7	445.9	DSC	[2016EME/YER]
	FUS		31.9	444.9	DSC	[2008MOT/QUE, 2012MAN/VIL]
	FUS		17.89	435.3	DSC	[1994HUA/CHE]
	SUB	(385–442)	133.2 ± 1.8	413	TGA	[2016EME/YER]
	SUB	(385–442)	137.4 ± 1.9	298	TGA	[2016EME/YER]
	SUB		131.8 ± 4.0	298	ME	[2012DAV/HER]
	SUB	(369–390)	132.4 ± 1.3	379	ME	[2006CHE/OJA]
$C_{10}H_{10}O_4$	[635-51-8]	(*RS*)-phenylsuccinic acid				
	FUS		37.37	440.1	DSC	[2006PRO/RAS]
$C_{10}H_{10}O_4$	[4036-30-0]	(*S*)-phenylsuccinic acid				
	FUS		41.84	446.9	DSC	[2006PRO/RAS]
$C_{10}H_{11}ClN_2O_4$	[310412-18-1]	ethyl (2-chloromethyl-2,3-dihydro-5*H*-oxazolo[3,2-a]-pyrimidin-5-one)-6-carboxylate				
	TRS		5.38	379.7		
	FUS		10.77	413.4	DSC	[2000CHA/SOS]
$C_{10}H_{11}ClO_3$		(*dl*)-2-(2-chloro-3-methylphenoxy)propionic acid				
	FUS		30.54	391.5	DSC	[1976LEC/COL]
$C_{10}H_{11}ClO_3$		(*d*)-2-(2-chloro-3-methylphenoxy)propionic acid				
	FUS		22.18	359.5	DSC	[1976LEC/COL]
$C_{10}H_{11}F_3N_2O$	[2164-17-2]	*N,N*-dimethyl-*N'*-[3-(trifluoromethyl)-phenyl]urea				
	FUS		29.82	434.1	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_{11}F_3N_2O_3S$	[47000-92-0]	*N*-[4-methyl-3-[[(trifluoromethyl)sulfonyl]amino]phenyl]acetamide				
	FUS		40.47	455.7	DSC	[1990DON/DRE]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{11}N$	[1195-98-8]	α, α-dimethylbenzylcyanide				
	V	(284–323)	60.3 ± 0.6	303	GS	[2000VER]
	V	(284–323)	60.6 ± 0.6	298	GS	[2000VER]
$C_{10}H_{11}N$	[769-68-6]	α-ethylbenzylcyanide				
	V	(283–313)	64.3 ± 0.6	298	GS	[2000VER]
$C_{10}H_{11}N$	[2571-52-0]	2,4,6-trimethylbenzonitrile				
	FUS		15.5	325.5	DSC	[2015ZAI/EME]
	SUB		82.9 ± 1.6	298	C	[1991ACR/TUC]
$C_{10}H_{11}N$	[91-55-4]	2,3-dimethylindole				
	SUB	(313–373)	86.8 ± 0.3	298	GS	[2011VER/EME3]
$C_{10}H_{11}NO$	[2904-59-8]	2,4,6-trimethylbenzonitrile *N*-oxide				
	SUB		87.5 ± 0.5	314	C	[1993ACR/SEV]
	SUB		87.9 ± 1.9	298		[1993ACR/SEV]
	SUB		84.7 ± 1.8	319	ME	[1992ACR/SIM]
	SUB		77.5 ± 3.7	298	C	[1991ACR/TUC]
$C_{10}H_{11}NO$	[1128-85-4]	3-amino-1-phenyl-but-2-enone				
	SUB		109.4 ± 2.1	298	C	[1993RIB/RIB]
$C_{10}H_{11}NO_2$	[1563-87-7]	*N*-phenyldiacetamide				
	SUB		90.0 ± 0.8	298	C	[1965WAD, 1970COX/PIL]
$C_{10}H_{11}NO_2$	[93-17-4]	(3,4-dimethoxyphenyl)acetonitrile				
	FUS	(78–399)	24.72	336.8	AC	[2009MEN/ZHA]
$C_{10}H_{11}NO_2S$	[6958-78-7]	*N*-benzoylthiocarbamic *O*-ethyl ester				
	SUB		112.2 ± 1.3	298	C	[2004RIB/SAN2]
$C_{10}H_{11}NO_3$	[2571-54-2]	2,4,6-trimethoxybenzonitrile				
	SUB		112.6 ± 2.0	298	C	[1991ACR/TUC]
$C_{10}H_{11}NO_3$	[34295-85-7]	*N*-salicylidene-β-alanine				
	FUS		28.5	408	DSC	[1996DOM/HEA, 1991WU/XIO]
$C_{10}H_{11}NO_3$	[2623-33-8]	*N*-[4-(acetyloxy)phenyl]acetamide				
	FUS		30.97	427.5	DSC	[1990BHA/LAL]
$C_{10}H_{11}NO_4$	[2904-59-8]	2,4,6-trimethoxybenzonitrile *N*-oxide				
	SUB		91.9 ± 1.9	298	C	[1991ACR/TUC]
$C_{10}H_{11}N_3O$	[5809-38-1]	3,5-dimethyl-1-phenyl-4-nitrosopyrazole				
	SUB		89.7 ± 2.0	298	C	[2001RIB/FER]
$C_{10}H_{11}N_3O_2$	[10495-38-2]	3-dimethylamino-6-aminophthalimide				
	SUB	(434–459)	108.8	446.5	A	[1987STE/MAL, 1956KLO]
$C_{10}H_{11}N_3O_3S$	[723-46-6]	4-amino-*N*-(5-methyl-3-isoxazolyl)benzene sulfonamide (sulfamethoxazole)				
	FUS		31.9	441.3	DSC	[2016VOL/BLO]
	FUS		31.1	442.5	DSC	[2013AGA/MOS]
	FUS		33.8	440.7	DSC	[2003MAR/AVI, 2002MAR/GOM, 2001MAR/GOM]
	FUS		35.26	440		[1998ISS/ELA]
	SUB	(379–436)	124.0 ± 2.0	298	GS	[2016VOL/BLO]
$C_{10}H_{11}N_5O_3$	[134287-59-5]	3,9-dihydro-3-[(2-hydroxyethoxy)methyl]-9-oxo-5*H*-imidazol[1,2-a]pyrine				
	FUS		43.33	520.6	DSC	[1999ZIE/GOL]
$C_{10}H_{12}$	[1755-01-7]	*endo*-dicyclopentadiene				
	TRS		8.04	216.1		
	FUS		1.79	304.7		[1997SMI/LEB]
	TRS		9.66	216		
	FUS		2.22	304.8		[1996DOM/HEA, 1977LEB/LIT]
	V	(350–446)	43.6	365	A	[1987STE/MAL]
	V	(350–423)	46.4			[1968TUR/HUL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{12}$	[933-60-8]	*exo*-dicyclopentadiene				
	FUS		7.11	189.8		[1997SMI/LEB]
$C_{10}H_{12}$	[2234-20-0]	2,4-dimethylstyrene				
	V	(307–453)	50.0	322	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}$	[2039-89-6]	2,5-dimethylstyrene				
	V	(302–453)	48.1	317	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}$	[2039-93-2]	α-ethylstyrene				
	V	(274–313)	52.0 ± 0.3	294	GS	[1999VER/EBE]
	V	(274–313)	51.8 ± 0.3	298	GS	[1999VER/EBE]
$C_{10}H_{12}$	[7564-63-8]	1-ethyl-2-vinylbenzene				
	V	(363–413)	46.3	378	A	[1987STE/MAL]
$C_{10}H_{12}$	[7525-62-4]	1-ethyl-3-vinylbenzene				
	V	(343–453)	49.6	358	A	[1987STE/MAL]
$C_{10}H_{12}$	[3454-07-7]	1-ethyl-4-vinylbenzene				
	V	(341–448)	48.4	356	A	[1987STE/MAL]
$C_{10}H_{12}$	[119-64-2]	1,2,3,4-tetrahydronaphthalene (tetralin)				
	FUS	(12–318)	12.45	237.4	AC	[1996DOM/HEA, 1957MCC/FIN2]
	V	(465–580)	44.1	480		[1992LEE/DEM]
	V	(311–481)	51.1	326	A	[1987STE/MAL]
	V		41.3 ± 0.1	498	C	[1985NAT/VIS]
	V		37.6 ± 0.1	552	C	[1985NAT/VIS]
	V		35.7 ± 0.1	567	C	[1985NAT/VIS]
	V		33.9 ± 0.1	585	C	[1985NAT/VIS]
	V		32.0 ± 0.1	604	C	[1985NAT/VIS]
	V	(331–437)	52.1	346		[1984KAT/HAR]
	V	(370–446)	55.2 ± 1.3	298	BG	[1971BOY/SAN]
	V	(367–479)	48.6	382		[1947STU]
$C_{10}H_{12}$	[3451-55-6]	cyclodeca-1,2,6,7-tetraene				
	SUB		73.0 ± 0.4	298	C	[1991LUK/TIM]
$C_{10}H_{12}ClNO_2$	[2150-29-0]	isopropyl-3-chlorophenylcarbamate				
	FUS		17.75	313.9	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_{12}ClN_3O_2$	[15271-41-7]	5-chloro-6-[[[(methylamino)carbonyl]oxy]imino]bicyclo[2.2.1]-heptane-2-carbonitrile				
	FUS		26.07	431.6	DSC	[1990DON/DRE]
$C_{10}H_{12}Cl_4NOPS$	[21844-03-1]	*P*-chloromethyl-*N*-(1-methylethyl)amidothiophosphonic acid, O-(2,4,6-trichlorophenyl) ester				
	V	(323–363)	78.3	338	A	[1987STE/MAL]
$C_{10}H_{12}N_2$	[827-36-1]	2-dimethylamino-2-phenyloacetonitrile				
	V	(298–338)	62.8 ± 0.4		GS	[1997WEL/VER]
$C_{10}H_{12}N_2$	[7665-66-9]	1-propylbenzimidazole				
	V	(327–376)	80.2 ± 0.4	298	GS	[2012GAR/VER]
$C_{10}H_{12}N_2$	[5465-29-2]	2-propylbenzimidazole				
	TRS		1.5	385.8		
	FUS		Not given	431.6	DSC	[2004RIB/RIB]
	SUB	(344–364)	109.4 ± 1.2	298	ME	[2004RIB/RIB]
$C_{10}H_{12}N_2$	[5851-43-4]	2-isopropylbenzimidazole				
	TRS		1.0	410.4		
	FUS		Not given	507.9	DSC	[2004RIB/RIB]
	SUB		109.9 ± 2.7	298	C	[2004RIB/RIB]
$C_{10}H_{12}N_2O$	[486-56-6]	(5S)-1-methyl-5-(3-pyridyl)pyrrolindin-2-one ((-)-cotinine)				
	V	(538–670)	66.3	553	DSC	[2014SII/KAM]
$C_{10}H_{12}N_2O_2$	[30764-27-3]	acetylglycine anilide				
	SUB	(362–365)	122.1	363.5	A	[1987STE/MAL, 1955AIH]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{12}N_2O_2$	[70320-93-3]	*N*-(2-acetoxyethyl)-4-nitroaniline				
	FUS		20.8	387.0	DSC	[2013TRA/KHI]
$C_{10}H_{12}N_2O_3$	[52-43-7]	allobarbital				
	FUS		32.31	442.6	DSC	[1986CHA/DEM]
	FUS		24.9		DSC	[1982TRE/VAU]
	FUS		31.7		DSC	[1978SEK/TSU]
$C_{10}H_{12}N_2O_3$	[38423-62-0]	2-ethoxyisonitrosoacetanilide				
	FUS		23.0	407.3	DTA	[1996DOM/HEA, 1982CUE/SOL]
$C_{10}H_{12}N_2O_3$	[17122-74-6]	4-ethoxyisonitrosoacetanilide				
	FUS		7.6	491.2	DTA	[1982CUE/SOL, 1996DOM/HEA]
$C_{10}H_{12}N_2O_3S$	[25057-89-0]	3-(1-methylethyl)-(1*H*)-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide				
	FUS		21.77	412.5	DSC	[1990DON/DRE]
$C_{10}H_{12}N_2O_4$	[84592-41-6]	(2-hydroxyethyl)[3-[(hydroxyimino)methyl]phenyl carbamic acid				
	FUS		28.9	508.3	DTA	[1982CUE/SOL]
$C_{10}H_{12}N_2O_4$	[3056-17-5]	2,3′-didehydro-3′-deoxythymidine (stavudine)				
	FUS		26.91	443.2	DSC	[2000GAN/BOG]
$C_{10}H_{12}N_2O_4S$	[138517-12-1]	(4-nitrophenyl)-2-(methylthio)ethyl carbamate				
	FUS		31.27	349.4	DSC	[1993TIE/FRA]
$C_{10}H_{12}N_2O_5$	[88-85-7]	2-*sec*-butyl-4,6-dinitrophenol				
	FUS		21.81	313.7	DSC	[1990DON/DRE]
$C_{10}H_{12}N_4O_3$	[74392-01-1]	4-*N,N*-diethylamino-7-nitrobenzofurazan				
	SUB		139.2 ± 1.6	298	ME	[2014SAN/SIL]
$C_{10}H_{12}N_2S$	[7341-63-1]	*N*-allyl-*N*-phenylthiourea				
	FUS		27.61	375		[1996DOM/HEA, 1928SHI]
$C_{10}H_{12}N_3O_3PS_2$	[86-50-0]	*S*-(3,4-dihydro-4-oxobenzo[d][1,2,3]-triazin-3-ylmethyl) *O,O*-dimethylphoshorodithioate				
	FUS		27.76	345.3	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_{12}N_4O_{12}$	[94616-58-7]	1,3,5,7–tetranitrateadamantane				
	SUB		150.2 ± 2.0	298	C	[2001MAT/LEB]
$C_{10}H_{12}O$	[104-46-1]	anethole				
	FUS		16.0	294.7	C	[1911LOU/DUP]
	V		61.9	298	GC	[2002VAN/PAR]
$C_{10}H_{12}O$	[25679-28-1]	*cis*-anethole				
	V	(333–363)	68.7	348	A	[1987STE/MAL]
$C_{10}H_{12}O$	[4180-23-8]	*trans*-anethole				
	V	(333–363)	78.3	348	A	[1987STE/MAL]
$C_{10}H_{12}O$	[140-67-0]	estragole				
	V	(325–488)	56.3	340	A	[1987STE/MAL]
$C_{10}H_{12}O$	[2142-64-5]	2′-ethylacetophenone				
	V	(363–397)	52.8	378	A	[1987STE/MAL]
	V	(293–423)	U23.7	368		[1968KHO/BYK]
$C_{10}H_{12}O$	[937-30-4]	4′-ethylacetophenone				
	V	(294–368)	42.2	309	A	[1987STE/MAL]
	V	(293–423)	39.8	368		[1968KHO/BYK]
$C_{10}H_{12}O$	[122-03-2]	4-isopropylbenzaldehyde (cuminal)				
	V	(331–505)	55.3	346	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}O$	[5445-77-2]	2-methyl-3-phenylpropanal				
	V	(333–373)	59.1	348	A	[1987STE/MAL]
$C_{10}H_{12}O$	[5337-93-9]	4′-methypropiophenone				
	V	(332–512)	52.6	347	A	[1987STE/MAL, 1947STU]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{12}O$	[5459-40-5]	4-vinylphenetole				
	V	(337–498)	59.2	352	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}O$	[1712-69-2]	4-methoxy-α-methylstyrene				
	FUS		19.07	309.2		[1999VER6]
	SUB		81.2 ± 0.4	298		[1999VER6]
	V	(308–343)	60.6 ± 0.3	326	GS	[1999VER6]
	V	(308–343)	62.1 ± 0.3	298	GS	[1999VER6]
$C_{10}H_{12}O_2$	[3674-77-9]	2-phenyl-2-methyl-1,3-dioxolane				
	SUB	(293–324)	81.9 ± 0.5	308	T	[1995VER/DOG]
$C_{10}H_{12}O_2$	[103-45-7]	acetic acid, phenethyl ester				
	V		61.3 ± 1.3	298	CGC	[2015KOZ/GOB]
	V	(283–318)	67.4	298	A	[1987STE/MAL]
	V	(422–506)	52.2	437	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[31508-44-8]	methyl 2-phenylpropionate				
	V	(284–318)	61.8 ± 0.7	301	GS	[1999VER8]
	V	(284–318)	62.0 ± 0.7	298	GS	[1999VER8]
$C_{10}H_{12}O_2$	[97-53-0]	4-allyl-2-methoxyphenol (eugenol)				
	V		66.3	298	GC	[2002VAN/PAR]
	V	(395–527)	57.7	410	A	[1987STE/MAL]
	V	(285–333)	66.1	300	ME	[1987STE/MAL, 1959SCO/DOU]
	V	(351–526)	60.3	366		[1947STU]
$C_{10}H_{12}O_2$	[122-63-4]	benzyl propionate				
	V	(298–378)	59.0	313	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[501-19-9]	5-allyl-2-methoxyphenol				
	V	(345–527)	61.4	371	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[97-54-1]	2-methoxy-4-(1-propenyl)phenol (isoeugenol)				
	V	(359–540)	60.7	374		[1957DYK/SEP]
$C_{10}H_{12}O_2$	[5912-86-7]	*cis*-isoeugenol				
	V	(373–403)	69.7	388	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[5932-68-3]	*trans*-isoeugenol				
	V	(363–420)	69.1	378	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[3674-77-9	acetophenone ethylene glycol ketal				
	FUS		25.2	333.6		[1995VER/DOG]
$C_{10}H_{12}O_2$	[16108-50-2]	2-acetyl-3,5-dimethylphenol				
	FUS		1.36	333.2	DTA	[1989SAL/ABA]
[Note: Reported enthalpy of fusion is too small, and the published enthalpy and entropy of fusion data are internally inconsistent.]						
$C_{10}H_{12}O_2$	[101-97-3]	phenylacetic acid, ethyl ester				
	V	(333–433)	60.7	298	GC	[2005HOS/GRY]
	V	(288–328)	63.9 ± 0.4	308	GS	[1999VER8]
	V	(288–328)	64.5 ± 0.4	298	GS	[1999VER8]
	V	(393–500)	54	408	A	[1987STE/MAL]
$C_{10}H_{12}O_2$	[2315-68-6]	propylbenzoate				
	V	(359–458)	60.2	379	BG	[1988KAT2]
	V	(359–458)	52.7	440	BG	[1988KAT2]
	V	(327–504)	53.8	342	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}O_2$	[2930-05-4]	[(phenylmethoxy)methyl]oxirane				
	V		71.0 ± 0.4			[1987VAN/KAC]
$C_{10}H_{12}O_2$	[2529-36-4]	2,3,6-trimethylbenzoic acid				
	SUB	(314–336)	104.4 ± 0.2	298	ME	[1987COL/JIM2]
	SUB	(314–336)	103.6 ± 0.2	325	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[480-63-7]	2,4,6-trimethylbenzoic acid				
	SUB	(316–340)	103.6 ± 0.3	298	ME	[1987COL/JIM2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	SUB	(316–340)	102.5 ± 0.3	328	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[1076-47-7]	2,3,4-trimethylbenzoic acid				
	SUB	(329–351)	109.3 ± 0.3	298	ME	[1987COL/JIM2]
	SUB	(329–351)	108.2 ± 0.3	340	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[2437-66-3]	2,3,5-trimethylbenzoic acid				
	SUB	(320–338)	106.7 ± 0.3	298	ME	[1987COL/JIM2]
	SUB	(320–338)	105.7 ± 0.3	329	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[528-90-5]	2,4,5-trimethylbenzoic acid				
	SUB	(324–346)	109.6 ± 0.5	298	ME	[1987COL/JIM2]
	SUB	(324–346)	108.3 ± 0.5	335	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[1076-88-6]	3,4,5-trimethylbenzoic acid				
	SUB	(340–359)	111.0 ± 0.5	298	ME	[1987COL/JIM2]
	SUB	(340–359)	109.3 ± 0.5	350	ME	[1987COL/JIM2]
$C_{10}H_{12}O_2$	[2438-05-3]	4-propylbenzoic acid				
	TRS		3.4	301		
	FUS		23.3	422	DSC	[1985PRI/PUC]
	SUB	(331–347)	109.1 ± 0.8	298	ME	[2004MON/ALM]
$C_{10}H_{12}O_2$	[2438-04-2]	2-isopropylbenzoic acid				
	SUB	(300–320)	100.2 ± 0.4	310	ME	[1987COL/JIM]
	SUB	(300–320)	101.0 ± 0.4	298	ME	[1987COL/JIM]
$C_{10}H_{12}O_2$	[5651-47-8]	3-isopropylbenzoic acid				
	SUB	(300–316)	103.3 ± 0.3	308	ME	[1987COL/JIM]
	SUB	(300–316)	104.1 ± 0.3	298	ME	[1987COL/JIM]
$C_{10}H_{12}O_2$	[536-66-3]	4-isopropylbenzoic acid				
	SUB	(316–334)	99.0 ± 0.3	310	ME	[1987COL/JIM]
	SUB	(316–334)	99.0 ± 0.3	298	ME	[1987COL/JIM]
$C_{10}H_{12}O_2$	[1821-12-1]	4-phenylbutyric acid				
	FUS		19.5	324.2	DSC	[2001MON/HIL]
	SUB	(309–323)	112.4 ± 0.8	316	ME	[2001MON/HIL]
	SUB	(309–323)	113.0 ± 1.0	298	ME	[2001MON/HIL]
$C_{10}H_{12}O_2$	[527-17-3]	2,3,5,6-tetramethyl-1,4-benzoquinone				
	FUS		18.39 ± 0.1	384.1	DSC	[2004ROJ/FOR]
	FUS		18.54 ± 0.1	384.8	HFC	[2004ROJ/FOR]
	SUB		93.2 ± 1.2	298	DSC	[2004ROJ/FOR]
$C_{10}H_{12}O_2$	[490-91-5]	2-isopropyl-5-methyl-1,4-benzoquinone (thymoquinone)				
	FUS		18.16	323.2		[2003PAG/BEN]
$C_{10}H_{12}O_2S$	[32228-15-2]	*p*-tolyl *trans*-prop-1-enyl sulfone				
	SUB		83.7 ± 2.1		B	[1969MAC/STE, 1970COX/PIL]
$C_{10}H_{12}O_2S$	[3112-87-6]	*p*-tolyl prop-2-enyl sulfone				
	SUB		95.8 ± 2.9		B	[1969MAC/STE, 1970COX/PIL]
$C_{10}H_{12}O_2S$	[67605-02-1]	*p*-tolyl isopropenyl sulfone				
	SUB		88.7 ± 2.5		B	[1969MAC/MCN, 1969MAC/MCN2, 1977PED/RYL]
$C_{10}H_{12}O_3$	[6192-44-5]	acetic acid, (2-phenoxyethyl) ester				
	V	(355–533)	56.8	370	A	[1987STE/MAL, 1947STU]
$C_{10}H_{12}O_3$	[94-13-3]	propyl 4-hydroxybenzoate				
	FUS		26.51	369.6	DSC	[2014YAN/RAS]
	FUS		27.3	368.8	DSC	[2011UMN/CHI]
	FUS		27.2	369.3	DSC	[1999GIO/BET]
	FUS		27.99	369.2		[1990MAN/AHU]
	SUB	(319–333)	123.7 ± 0.6	298	GS	[2005PER/ROD]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		89.5 ± 0.6	298	CGC	[2011UMN/CHI]
	V		79.1		TGA	[2002CHA/DOL]
	V		76.5		TGA	[2001CHA/DOL]
$C_{10}H_{12}O_3$	[3759-31-7]	(*dl*)-3-hydroxy-3-phenylbutyric acid				
	FUS		19.66	330		[1991CHI/BRA]
$C_{10}H_{12}O_3$		(*d*)-3-hydroxy-3-phenylbutyric acid				
	FUS		22.59	357		[1991CHI/BRA]
$C_{10}H_{12}O_3$	[4919-33-9]	4-ethoxyphenylacetic acid				
	FUS		23.0	360.2		[1991ACR, 1979ARM/JAM]
$C_{10}H_{12}O_3$	[6342-77-4]	3-(2-methoxyphenyl)propionic acid				
	FUS		25.33	360.5	DSC	[2001MON/HIL4]
	SUB	(331–347)	116.0 ± 0.4	339	ME	[2001MON/HIL4]
	SUB	(331–347)	117.8 ± 1.4	298	ME	[2001MON/HIL4]
$C_{10}H_{12}O_3$	[1929-29-9]	3-(4-methoxyphenyl)propionic acid				
	FUS		29.57	376.1	DSC	[2001MON/HIL4]
	FUS		28.5	376.9		[1991ACR, 1979ARM/JAM]
	SUB	(341–357)	122.3 ± 0.3	349	ME	[2001MON/HIL4]
	SUB	(341–357)	124.5 ± 1.7	298	ME	[2001MON/HIL4]
$C_{10}H_{12}O_3$	[5438-19-7]	4-propoxybenzoic acid				
	TRS (liq cryst)		7.95	394.2		
	TRS (liq cryst)		16.74	419.9		
	TRS (liq cryst-to-liq)		2.51	426.7	DSC	[1967HER]
	SUB	(345–365)	123.8 ± 0.5	355	ME	[2010FON/SAN]
	SUB(II)	(345–365)	126.0 ± 0.5	298	ME	[2010FON/SAN]
$C_{10}H_{12}O_4$	[999-21-3]	maleic acid, diallyl ester				
	V	(392–426)	77.7	407	A	[1987STE/MAL, 1958MOR/YOS]
$C_{10}H_{12}O_4$	[20765-04-2]	2,5-diethoxy-1,4-benzoquinone				
	FUS		28.7	459.3	DSC	[1996KEE/VAN]
$C_{10}H_{12}O_5$	[490-64-2]	2,4,5-trimethoxybenzoic acid				
	FUS		31.15	417.9	DSC	[2003HUA, 2005HUA/TAN]
$C_{10}H_{12}O_5$	[118-41-2]	3,4,5-trimethoxybenzoic acid				
	FUS		29.9	444.5	DSC	[2003HUA, 2005HUA/TAN]
	SUB	(354–372)	127.9 ± 0.8	363	ME	[2001ROU/JIM2]
	SUB		131.2 ± 0.8	298	ME	[2001ROU/JIM2]
$C_{10}H_{12}O_6$	[6289-46-9]	dimethyl 2,5-dioxo-1,4-cyclohexanedicarboxylate				
	FUS		27.69	429.9	DSC	[2014LIU/ZOU]
	FUS		26.52	427.7	DSC	[2011CHE/YAN]
$C_{10}H_{13}Br$	[2437-76-5]	2-bromo-4-isopropyltoluene				
	V	(400–510)	50.2	415	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]
$C_{10}H_{13}Br$	[4478-10-8]	3-bromo-4-isopropyltoluene				
	V	(400–510)	48.3	415	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]
$C_{10}H_{13}BrO$	[54514-31-7]	2-bromophenyl isobutyl ether				
	V	(293–323)	64.0 ± 0.2	298	GS	[2005STR/SPO]
$C_{10}H_{13}BrO$	[223564-75-8]	3-bromophenyl isobutyl ether				
	V	(290–323)	65.3 ± 0.2	298	GS	[2005STR/SPO]
$C_{10}H_{13}BrO$	[30752-23-9]	4-bromophenyl isobutyl ether				
	V	(293–333)	66.8 ± 0.6	298	GS	[2005STR/SPO]
$C_{10}H_{13}Cl$	[4395-79-3]	2-chloro-4-isopropyltoluene				
	V	(400–490)	49.3	415	A	[1987STE/MAL, 1970DYK/VAN, 1999DYK/SVO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{13}Cl$	[15146-00-6]	3-chloro-4-isopropyltoluene				
	V	(400–490)	47.1	415	A	[1987STE/MAL, 1970DYK/VAN]
$C_{10}H_{13}ClN_2O_2$	[19937-59-8]	*N′*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea				
	FUS		27.48	399.2	DSC	[1990DON/DRE]
$C_{10}H_{13}ClN_2O_3S$	[94-20-2]	1-(4-chlorobenzenesulfonyl)-3-propylurea (chlorpropamide)				
	FUS		27.44	397	DSC	[2010BAI/VAN]
	FUS		25.7	401	DSC	[2006WAS/HOL, 2008WAS/HOL]
$C_{10}H_{13}ClN_6$	[32889-48-8]	2-((4-chloro-6-(cyclopropylamino)-1,3,5-triazin-2-yl)amino-2-methylpropanenitrile				
	FUS		22.51	438.5	DSC	[1990DON/DRE]
$C_{10}H_{13}ClO$	[4446-91-7]	2-chloroethyl α-methylbenzyl ether				
	V	(335–508)	54.8	350	A	[1987STE/MAL, 1947STU, 1999DYK/SVO]
$C_{10}H_{13}ClO_3$	[58498-77-4]	diethylene glycol 4-chlorophenyl ether				
	V	(450–523)	75.9	465	A	[1987STE/MAL, 1999DYK/SVO]
$C_{10}H_{13}ClO_3$	[94-81-5]	4-(4-chloro-2-methylphenoxy)butanoic acid				
	FUS		32.02	373.4	DSC	[1990DON/DRE]
$C_{10}H_{13}Cl_2O_2P$	[18351-36-5]	4-*tert*-butyl phenyl dichlorophosphate				
	V	(369–572)	59.6	384		[1947STU]
$C_{10}H_{13}Cl_3NOPS$	[18361-88-1]	*P*-chloromethyl-*N*-(1-methylethyl)amidothiophosphonic acid, O-(2,4-dichlorophenyl) ester				
	V	(323–368)	93.1	345	A	[1987STE/MAL, 1999DYK/SVO]
$C_{10}H_{13}F_9$	[1190430-19-3]	1,1,1,2,2,3,3,4,4-nonafluorodecane				
	V	(278–328)	49.4 ± 0.2	298	Static	[2015MOR/DAS]
$C_{10}H_{13}NO$	[6935-65-5]	*N,N*-dimethyl-*m*-toluamide				
	V	(374–405)	29.9	390		[1969DAV/MAK]
$C_{10}H_{13}NO_2$	[591-33-3]	3′-ethoxyacetanilide				
	FUS		28.9	368.0	DSC	[2012UMN/CHI]
	V		94.1 ± 3.5	298	CGC	[2012UMN/CHI]
$C_{10}H_{13}NO_2$	[62-44-2]	4′-ethoxyacetanilide (phenacetin)				
	FUS		28.79	407.0	DSC	[2014MAN/MAH]
	FUS		32.0	407.0	DSC	[2012UMN/CHI]
	FUS		31.5	409.0	DSC	[2010BAI/VAN]
	FUS		36.93	407.6	DSC	[2010MIY/KHA]
	FUS		30.0	409.6	DSC	[2009VEC/TOM]
	FUS		28.75	408.3	DSC	[2009PEN/ESC]
	FUS		34.1	407.4	DSC	[2006WAS/HOL, 2008WAS/HOL]
	FUS		21.4	410.2	DSC	[2004VEC/CAT]
	FUS		31.25	407.2		[1990MAN/AHU]
	SUB		120 ± 3	298	V+ F	[2009VEC/TOM]
	SUB	(312–387)	115.5 ± 2.4	350	C, ME	[1972WIE, 1987STE/MAL]
	V		94.8 ± 3.5	298	CGC	[2012UMN/CHI]
	V		79 ± 1	459	TGA	[2009VEC/TOM]
	V		82 ± 1	476	TGA	[2009VEC/TOM]
	V	(463–533)	82.6	478	A	[1987STE/MAL]
	V		83.2	470	I	[1943CRA]
$C_{10}H_{13}NO_2$	[943-15-7]	2-nitro-4-isopropyltoluene				
	V	(370–415)	67.7	385	A	[1987STE/MAL]
$C_{10}H_{13}NO_2$	[35480-94-5]	3-nitro-4-isopropyltoluene				
	V	(330–430)	54.0	345	A	[1987STE/MAL]
$C_{10}H_{13}NO_2$	[1886-57-3]	2-nitro-1-*tert*-butylbenzene				
	V	(278–323)	64.8 ± 0.6	301	GS	[2000VER/HEI]
	V	(278–323)	65.0 ± 0.6	298	GS	[2000VER/HEI]
$C_{10}H_{13}NO_2$	[94-12-2]	propyl 4-aminobenzoate				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		20.54	347.1	DSC	[1991ACR, 1990MAN/AHU, 1989NEA/FLY, 1990NEA/FLY]
$C_{10}H_{13}NO_2$	[1202-25-1]	methyl *p*-*N*,*N*-dimethylaminobenzoate				
	FUS		23.4	371.3	DSC	[2011ALM/MON]
	FUS		26.07	371.8		[1991ACR, 1990MAN/AHU]
	SUB	(311–333)	100.1 ± 0.3	298	ME	[2011ALM/MON]
	SUB	(325–368)	100.9 ± 0.2	298	Static	[2011ALM/MON]
	SUB	(325–368)	99.0 ± 0.2	347	Static	[2011ALM/MON]
	V	(353–390)	81.0 ± 0.1	298	Static	[2011ALM/MON]
	V	(353–390)	74.0 ± 0.1	371	Static	[2011ALM/MON]
$C_{10}H_{13}NO_2$	[5532-90-1]	propyl *N*-phenylcarbamate				
	FUS		21.08	331		[1971PRI]
$C_{10}H_{13}NO_2$	[122-42-9]	isopropyl phenylcarbamate				
	FUS		19.37	359.5	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_{13}NO_2$	[2425-10-7]	3,4-dimethylphenyl methylcarbamate				
	FUS		24.97	350.8	DSC	[1991ACR, 1990DON/DRE]
$C_{10}H_{13}NO_2$	[5426-62-0]	*N*-benzyl-β-alanine				
	FUS		42.7	457.0	DSC	[2011ROU/NOT2]
	SUB		171.6 ± 3.7	298	C	[2011NOT/ROU]
$C_{10}H_{13}NO_2S_2$	[949171-65-7]	*N*-theonylthiocarbamic-*O*-butyl ester				
	FUS		23.89	364.3	DSC	[2007RIB/MON]
	SUB		147.5 ± 1.9	298	C	[2007RIB/MON]
$C_{10}H_{13}NO_4$	[6988-21-2]	2-(1,3-dioxolan-2-yl)phenyl methylcarbamate				
	FUS		23.82	387.2	DSC	[1990DON/DRE]
$C_{10}H_{13}N_5O_3$		2-acetylamino-9-[(2-hydroxyethoxy)methyl]-9*H*-purine				
	FUS		54.92	454.2	DSC	[1995KRI/VES]
$C_{10}H_{13}N_5O_3$		9-[(2-acetoxyethoxy)methyl]-2-amino-9*H*-purine				
	FUS		42.69	408.2	DSC	[1995KRI/VES]
$C_{10}H_{13}N_5O_4$	[110104-37-5]	2-acetylamino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6*H*-purin-6-one				
	FUS		53.83	490.2	DSC	[1995KRI/VES]
$C_{10}H_{13}N_5O_4$	[102728-64-3]	2-amino-9-[(2-acetoxyethoxy)methyl]-1,9-dihydro-6*H*-purin-6-one				
	FUS		49.9	515.2	DSC	[1995KRI/VES]
$C_{10}H_{13}N_5O_4$	[30516-87-1]	3′-azido-2,3′-dideoxythymidine (zidovudine)				
	FUS		31.12	296.8	DSC	[2010ARA/DOS]
	FUS		33.03	395.8	DSC	[2003ARA/STO]
$C_{10}H_{14}$	[104-51-8]	butylbenzene				
	FUS		11.22	185.3		[1996DOM/HEA, 1965MES/TOD2]
	FUS		10.98	184.6	C	[1996DOM/HEA, 1931HUF/PAR]
	V	(343–501)	47.4 ± 0.2	350	EB	[2002STE/CHI, 2006VER]
	V	(343–501)	43.5 ± 0.2	410	EB	[2002STE/CHI]
	V	(343–501)	40.6 ± 0.4	450	EB	[2002STE/CHI]
	V	(343–501)	37.5 ± 0.7	490	EB	[2002STE/CHI]
	V		50.8	298		[1994RUZ/ZAB]
	V	(243–403)	53.5	258		[1993KAS/MOK]
	V		48.0 ± 0.1	343	C	[1982SVO/CHA]
	V		46.8 ± 0.1	358	C	[1982SVO/CHA]
	V		46.0 ± 0.1	368	C	[1982SVO/CHA]
	V		50.1	298		[1971WIL/ZWO]
	V	(374–454)	45.2	389		[1965LIN/FRI, 1984BOU/FRI]
	V	(369–463)	45.7	384	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{14}$	[135-98-8]	(*dl*)-*sec*-butylbenzene				
	V	(335–491)	45.7 ± 0.2	340	EB	[2002STE/CHI]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(335–491)	43.2 ± 0.2	380	EB	[2002STE/CHI]
	V	(335–491)	40.6 ± 0.3	420	EB	[2002STE/CHI]
	V	(335–491)	37.8 ± 0.5	460	EB	[2002STE/CHI]
	V		48.1	298		[1994RUZ/ZAB]
	V	(243–373)	50.6	258		[1993KAS/MOK]
	V	(384–448)	42.8	399	A	[1987STE/MAL]
	V		49.5	298		[1971WIL/ZWO]
	V	(368–448)	44.0	375		[1949FOR/NOR]
$C_{10}H_{14}$	[98-06-6]	*tert*-butylbenzene				
	FUS		8.4	215.3	DSC, AC	[2009CHI/STE]
	FUS		8.41	215	C	[1996DOM/HEA, 1930HUF/PAR2]
	V	(332–486)	45.3 ± 0.2	340	EB	[2002STE/CHI]
	V	(332–486)	42.6 ± 0.2	380	EB	[2002STE/CHI]
	V	(332–486)	39.9 ± 0.3	420	EB	[2002STE/CHI]
	V	(332–486)	37.0 ± 0.5	460	EB	[2002STE/CHI]
	V	(278–308)	47.8 ± 0.4	293	GS	[1998VER]
	V	(278–308)	47.5 ± 0.4	298	GS	[1998VER]
	V		47.6	298		[1994RUZ/ZAB]
	V	(368–444)	43.1	383	A	[1987STE/MAL]
	V		47.7	298		[1974KUS/SAI]
	V		49.1	298		[1971WIL/ZWO]
	V	(357–443)	43.7	372		[1949FOR/NOR]
$C_{10}H_{14}$	[135-01-3]	1,2-diethylbenzene				
	V		52.8	298		[1971WIL/ZWO]
	V	(369–464)	46.0	384	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{14}$	[141-93-5]	1,3-diethylbenzene				
	V		52.5	298		[1971WIL/ZWO]
	V	(368–457)	45.8	383	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{14}$	[105-05-5]	1,4-diethylbenzene				
	V		52.5	298		[1971WIL/ZWO]
	V	(369–464)	45.8	384	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{14}$	[933-98-2]	1,2-dimethyl-3-ethylbenzene				
	V	(344–497)	49.7	359	A	[1987STE/MAL]
	V		54.9	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[934-80-5]	1,2-dimethyl-4-ethylbenzene				
	V	(340–493)	48.9	355	A	[1987STE/MAL]
	V		53.9	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[2870-04-4]	1,3-dimethyl-2-ethylbenzene				
	V	(341–493)	48.8	356	A	[1987STE/MAL]
	V		53.9	298		[1971WIL/ZWO]
	V	(299–461)	48.6	314		[1947STU]
$C_{10}H_{14}$	[874-41-9]	1,3-dimethyl-4-ethylbenzene				
	V	(339–492)	48.5	354	A	[1987STE/MAL]
	V		53.3	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[934-74-7]	1,3-dimethyl-5-ethylbenzene				
	V	(336–487)	48.0	351	A	[1987STE/MAL]
	V		52.4	298		[1971WIL/ZWO]
	V	(295–456)	47.5	310		[1947STU]
$C_{10}H_{14}$	[1758-88-9]	1,4-dimethyl-2-ethylbenzene				
	V	(338–490)	48.0	353	A	[1987STE/MAL]
	V		52.6	298		[1971WIL/ZWO]
	V	(299–440)	48.7	313		[1947STU]
$C_{10}H_{14}$	[538-93-2]	isobutylbenzene				
	V		48.0	298		[1994RUZ/ZAB]
	V	(373–447)	43.2	388	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		49.5	298		[1971WIL/ZWO]
	V	(360–447)	43.8	375		[1949FOR/NOR]
$C_{10}H_{14}$	[527-84-4]	2-isopropyltoluene				
	V	(354–453)	44.4	369	A	[1987STE/MAL, 1959MCD/SHR, 1984BOU/FRI]
	V		50.6	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[535-77-3]	3-isopropyltoluene				
	V	(351–450)	44.7	366	A	[1987STE/MAL, 1959MCD/SHR, 1984BOU/FRI]
	V		50.0	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[99-87-6]	4-isopropyltoluene				
	FUS		9.67	204.2	C	[1996DOM/HEA, 1931HUF/PAR]
	V	(333–443)	49.2	298	GC	[2005HOS/GRY]
	V		48.9	298		[1994RUZ/ZAB]
	V	(380–452)	44.0	395	A	[1987STE/MAL, 1959MCD/SHR, 1984BOU/FRI]
	V		50.3	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[1074-17-5]	2-propyltoluene				
	V	(337–488)	48.0	352	A	[1987STE/MAL]
	V		52.7	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[1074-43-7]	3-propyltoluene				
	V	(334–485)	47.8	349	A	[1987STE/MAL]
	V		52.1	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[1074-55-1]	4-propyltoluene				
	V	(335–487)	47.6	350	A	[1987STE/MAL]
	V		51.9	298		[1971WIL/ZWO]
$C_{10}H_{14}$	[488-23-3]	1,2,3,4-tetramethylbenzene (prehnitene)				
	FUS		11.23	265.4	C	[1996DOM/HEA, 1931HUF/PAR]
	V		54.0	298		[1994RUZ/ZAB]
	V		52.6 ± 0.2	298	C	[1994SAB/TAB, 1990YAW/YAN]
	V	(352–509)	50.7	367	A	[1987STE/MAL]
	V		57.2	298		[1971WIL/ZWO]
	V	(316–477)	55.7	331		[1947STU]
$C_{10}H_{14}$	[527-53-7]	1,2,3,5-tetramethylbenzene (isodurene)				
	FUS		12.93	248.6	C	[1996DOM/HEA, 1931HUF/PAR]
	V		53.2	298		[1994RUZ/ZAB]
	V		52.0 ± 0.2	298	C	[1994SAB/TAB]
	V	(348–502)	50.0	363	A	[1987STE/MAL]
	V		55.8	298		[1971WIL/ZWO]
	V	(314–471)	58.9	329		[1947STU]
$C_{10}H_{14}$	[95-93-2]	1,2,4,5-tetramethylbenzene (durene)				
	FUS		21.62	352.3	AC	[2002VAN/VAN3]
	FUS		20.88	352.4		[1996DOM/HEA, 1944EIB]
	FUS		21.34	352.1		[1996DOM/HEA, 1933FER/THO]
	SUB		71.7 ± 0.3	298	C	[1994SAB/TAB]
	SUB	(263–277)	74.6 ± 0.3	298	ME	[1989COL/JIM]
	SUB	(318–348)	71.3	333	A	[1947BAL/DEN]
	SUB		72.4	298	H	[1947BAL/DEN, 1993CHI/HOS]
	V	(363–381)	47.7 ± 0.3	375	DM	[2001BLO/VAN]
	V	(353–500)	49.4	368	A	[1987STE/MAL]
$C_{10}H_{14}$	[310-45-2]	spirocyclopropane-1,6-tricyclo[3.2.1.0^{2,4}]octane				
	V		47.8 ± 0.1	298	C	[1998KOL/PIM, 1996VAR/PAS]
$C_{10}H_{14}Cl_2NO_2PS$	[299-85-4]	*O*-(2,4-dichlorophenyl) *O*-methyl-(1-methylethyl) phosphoramidothioate				
	FUS		29.25	321.5	DSC	[1990DON/DRE]
$C_{10}H_{14}NO_5PS$	[56-38-2]	*O,O*-diethyl *O*-4-nitrophenyl phosphorothioate (parathion)				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		15.72	278.1	DSC	[1991ACR, 1990DON/DRE]
	SUB	(293–433)	93.4	308	A	[1987STE/MAL, 1999DYK/SVO]
	SUB	(298–318)	100.6	308	A	[1979SPE/SHO, 1983SPE/CLI]
$C_{10}H_{14}NO_5PS$	[3270-86-8]	phosphorothioic acid, *O,O′*-diethyl-*S*-(4-nitrophenyl)				
	V	(313–366)	75.9	328	A	[1987STE/MAL, 1999DYK/SVO, 1950BRI/CUT]
$C_{10}H_{14}NO_5PS$	[597-88-6]	phosphorothioic acid, *O,S*-diethyl-*O′*-(4-nitrophenyl)				
	V	(332–364)	75.1	347	A	[1987STE/MAL, 1999DYK/SVO, 1950BRI/CUT]
$C_{10}H_{14}NO_6P$	[311-45-5]	*O,O*-diethyl-*O*-(4-nitrophenyl) phosphate				
	V	(273–422)	87.9	288	A	[1987STE/MAL]
$C_{10}H_{14}N_2$	[22083-74-5]	(*dl*)-nicotine				
	V	(406–520)	53.3	421	A	[1987STE/MAL]
$C_{10}H_{14}N_2$	[54-11-5]	(*l*)-nicotine				
	V	(448–618)	51.4	463	DSC	[2014SII/KAM]
	V	(448–618)	68.5	298	DSC	[2014SII/KAM]
	V		63.9 ± 2.1	298	CGC	[2009LIP/HAN]
	V	(373–523)	46.1	448		[1934GOR]
$C_{10}H_{14}N_2$	[494-52-0]	3-(2S)-2-piperidinylpyridine				
	V	(373–523)	49.5	448		[1934GOR]
$C_{10}H_{14}N_2$	[13078-04-1]	3-(2-piperidyl)pyridine ((±)-anabasine)				
	V	(478–644)	55.2	498	DSC	[2014SII/KAM]
	V	(478–644)	75.2	298	DSC	[2014SII/KAM]
$C_{10}H_{14}N_2O$	[120-22-9]	4-diethylaminonitrosobenzene				
	SUB		107.9 ± 3.7	298	C	[1998RIB/MAT2]
$C_{10}H_{14}N_2O_2S$	[77336-92-6]	*N,N*-diethyl-*N′*-furoylthiourea				
	SUB		132.0 ± 3.5	298	C	[2002RIB/RIB]
$C_{10}H_{14}N_2O_3$	[77-02-1]	aprobarbitone				
	FUS		21.4		DSC	[1982TRE/VAU]
$C_{10}H_{14}N_2O_4$	[55100-59-9]	1,3-dinitroadamantane				
	SUB		103.8 ± 1.5	298	C	[2002MIR/LEB2, 2001MAT/LEB]
$C_{10}H_{14}N_2O_4$	[88381-75-3]	2,2-dinitroadamantane				
	TRS		16.76	362.2		
	FUS		5.06	491.2	DSC	[1990FRI/DOG]
	SUB		89.1 ± 1.5	298	C	[2002MIR/LEB2, 2001MAT/LEB]
	SUB	(278–317)	96.4 ± 1.4	298	T	[1990FRI/DOG]
$C_{10}H_{14}N_2O_6$	[53488-28-1]	1,3-adamantanediyl dinitrate				
	SUB		105.9 ± 1.7	298	C	[2002MIR/LEB2, 2001MAT/LEB]
$C_{10}H_{14}N_4O_2$	[2850-41-1]	8-propyltheophylline				
	FUS		33.3	534.3	DSC	[1991ACR, 1989GON/KRA]
$C_{10}H_{14}N_4O_2$	[2850-40-0]	8-isopropyltheophylline				
	FUS		34.4	569.3	DSC	[1991ACR, 1989GON/KRA]
$C_{10}H_{14}N_4O_3$	[603-00-9]	(*R,S*)-3,7-dihydro-7-(2-hydroxypropyl)-1,3-dimethyl-1*H*-pyrine-2,6-dione (proxyphylline)				
	FUS(I)		24.7	408.2		
	FUS(II)		20.8	389.2	DSC	[2000GRI/AUE]
$C_{10}H_{14}N_4O_4$	[479-18-5]	7-(2,3-dihydroxypropyl)-3,7-dihydro-1,3-dimethyl-1*H*-purine-2,6-dione (dyphylline)				
	FUS		32.8	434.5	DSC	[2013BRA/AMH]
	FUS		39.3	435.7	DSC	[1999GRI/AUE]
$C_{10}H_{14}N_4O_4$	[72376-77-3]	(*S*)-7-(2,3-dihydroxypropyl)-3,7-dihydro-1,3-dimethyl-1*H*-purine-2,6-dione				
	FUS		31.7	438.9	DSC	[2013BRA/AMH]
$C_{10}H_{14}N_4O_4$	[72376-78-4]	(*R*)-7-(2,3-dihydroxypropyl)-3,7-dihydro-1,3-dimethyl-1*H*-purine-2,6-dione				
	FUS		31.7	438.9	DSC	[2013BRA/AMH]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{14}O$	[3180-09-4]	2-butylphenol				
	V	(403–533)	55.1	418	A	[1987STE/MAL, 1975ARR/MEL]
	V	(382–520)	52.9	398		[1953STA/MUL]
	V	(382–520)	51.0	423		[1953STA/MUL]
	V	(382–520)	47.0	473		[1953STA/MUL]
$C_{10}H_{14}O$	[89-72-5]	2-*sec*-butylphenol				
	V	(451–513)	52.1	466	A, GS, EB	[1987STE/MAL, 1964HAN/HAR]
$C_{10}H_{14}O$	[88-18-6]	2-*tert*-butylphenol				
	V	(289–329)	62.6 ± 0.2	309	GS	[1999VER2]
	V	(289–329)	63.2 ± 0.2	298	GS	[1999VER2]
	V	(409–467)	74.1	424	EB	[1990NES/NAZ]
	V	(409–465)	52.9	424		[1986TSV/NAZ]
	V	(353–498)	54.9	368	A	[1987STE/MAL]
	V	(330–507)	55.6	348		[1953STA/MUL]
	V	(330–507)	53.9	373		[1953STA/MUL]
	V	(330–507)	51.0	423		[1953STA/MUL]
	V	(330–507)	47.0	473		[1953STA/MUL]
$C_{10}H_{14}O$	[4074-43-5]	3-butylphenol				
	V	(396–533)	62.5	411	A	[1987STE/MAL]
	V	(396–533)	56.6	398		[1953STA/MUL]
	V	(396–533)	54.4	423		[1953STA/MUL]
	V	(396–533)	49.9	473		[1953STA/MUL]
$C_{10}H_{14}O$	[585-34-2]	3-*tert*-butylphenol				
	SUB		88.9 ± 0.5	298	C	[1999RIB/MAT2]
	SUB	(278–319)	86.0 ± 0.5	298	GS	[1999VER2]
	SUB	(266–299)	70.7	281		[1987STE/MAL]
	V	(320–348)	69.1 ± 0.8	334	GS	[1999VER2]
	V	(320–348)	71.3 ± 0.8	298	GS	[1999VER2]
	V	(391–524)	62.4	406	A	[1987STE/MAL]
	V	(391–524)	56.6	398		[1953STA/MUL]
	V	(391–524)	54.4	423		[1953STA/MUL]
	V	(391–524)	49.9	473		[1953STA/MUL]
$C_{10}H_{14}O$	[1638-22-8]	4-butylphenol				
	V	(395–653)	61.7	410	A	[1987STE/MAL]
	V	(357–529)	57.6	373		[1953STA/MUL]
	V	(357–529)	56.6	398		[1953STA/MUL]
	V	(357–529)	54.4	423		[1953STA/MUL]
	V	(357–529)	49.9	473		[1953STA/MUL]
$C_{10}H_{14}O$	[99-71-8]	4-*sec*-butylphenol				
	V	(344–516)	59.0	359	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[98-54-4]	4-*tert*-butylphenol				
	FUS		14.52	373.2	DTA	[1972INO/LIA]
	SUB		89.4 ± 2.5	298	C	[1999RIB/MAT2]
	SUB	(293–334)	85.0 ± 0.5	313	GS	[1999VER2]
	SUB	(293–334)	85.9 ± 0.5	298	GS	[1999VER2]
	SUB	(280–304)	84.3	292		[1987STE/MAL, 1960AIH]
	V		67.9 ± 1.0	298	C	[1999RIB/MAT2]
	V	(471–525)	54.3	486	A, GS, EB	[1987STE/MAL, 1947STU, 1964HAN/HAR]
	V	(346–523)	59.6	348		[1953STA/MUL]
	V	(346–523)	57.6	373		[1953STA/MUL]
	V	(346–523)	56.6	398		[1953STA/MUL]
	V	(346–523)	54.4	423		[1953STA/MUL]
	V	(346–523)	49.9	473		[1953STA/MUL]
$C_{10}H_{14}O$	[1126-79-0]	butyl phenyl ether				
	V	(391–483)	48.9	406	A	[1987STE/MAL, 1949DRE/SHR, 1984BOU/FRI]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{14}O$	[4371-48-6]	3-isopropyl-2-methylphenol				
	V	(365–516)	60.2	380	EB	[1969LAM/PER]
$C_{10}H_{14}O$	[1740-97-2]	4-isopropyl-2-methylphenol				
	V	(382–503)	59.8	397	EB	[1969LAM/PER]
$C_{10}H_{14}O$	[499-75-2]	5-isopropyl-2-methylphenol (carvacrol)				
	V	(330–422)	66.2	345	TGA	[2014LIM/CRE]
	V		68.2	298	GC	[2002VAN/PAR]
	V	(387–512)	59.4	402	EB	[1969LAM/PER]
	V	(343–510)	56.5	358	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[3228-04-4]	6-isopropyl-2-methylphenol				
	V	(371–499)	54.5	386	EB	[1969LAM/PER]
$C_{10}H_{14}O$	[1197-34-8]	3,5-diethylphenol				
	V	(387–521)	54.3	402	A	[1987STE/MAL, 1955VON/GEB]
$C_{10}H_{14}O$	[4167-74-2]	4-isobutylphenol				
	V	(345–510)	58.1	360	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[527-35-5]	2,3,5,6-tetramethylphenol				
	V	(381–522)	51.2	396	A	[1987STE/MAL, 1955VON/GEB]
$C_{10}H_{14}O$	[89-83-8]	2-isopropyl-5-methylphenol (thymol)				
	FUS		22.1	322.7	DSC	[2016ZHU/CHE]
	FUS		17.54	322.8	DSC	[2016OKU/PAD]
	FUS		17.4	322.0	DSC	[2012MAN/VIL]
	FUS		20.99	322.4	DSC	[2010MIY/KHA]
	FUS		19.12	324.0	DSC	[2004STU/WIT]
	FUS		22.18	324.2	DSC	[1991CHI/BRA]
	SUB	(273–295)	75.1	284	A	[1987STE/MAL, 1960AIH]
	SUB	(293–323)	89.1 ± 4.5	303	HSA	[1975CHI]
	SUB	(229–312)	U 69.0	270	TGA	[1971ASH]
	SUB	(273–313)	91.2 ± 4.1		TE	[1970COX/PIL, 1960JON, 1947BAL]
	SUB	(283–323)	91.5	298		[1957SHE/BRY, 1987STE/MAL]
	V	(333–433)	70.9	298	GC	[2005HOS/GRY]
	V		68.7	298	GC	[2002VAN/PAR]
	V	(393–433)	70.5	298	CGC	[1995CHI/HOS]
	V	(381–514)	58.4	396	A	[1987STE/MAL]
	V	(339–514)	63.2	373		[1953STA/MUL]
	V	(339–514)	58.4	398		[1953STA/MUL]
	V	(339–514)	55.2	423		[1953STA/MUL]
	V	(339–514)	52.8	448		[1953STA/MUL]
	V	(339–514)	51.5	473		[1953STA/MUL]
	V	(337–505)	54.9	352		[1947STU]
	V		60.3	387	I	[1943CRA]
$C_{10}H_{14}O$	[22327-39-5]	(*dl*)-carvone				
	FUS (metastable)		8.98	231.0		
	FUS (stable)		12.70	241.2	DSC	[1996GAL/VAN3]
	V	(330–501)	55	345	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[6485-40-1]	(*l*)-carvone				
	FUS		11.55	247.7	DSC	[1996GAL/BOU, 1996GAL/VAN2]
$C_{10}H_{14}O$	[2244-16-8]	(+)-carvone				
	V	(283–313)	58.6 ± 2.8	298	GS	[2010WID/BRU]
	V	(323–433)	58.2	298	GC	[2005HOS/GRY]
$C_{10}H_{14}O$	[1196-01-6]	(1S,5S)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one ((-)-verbenone)				
	V	(274–308)	58.6 ± 0.1	298	Static	[2013STE/FUL]
	V		58.9 ± 1.5	298	C	[2013STE/FUL]
$C_{10}H_{14}O$	[18486-69-6]	(-)-myrtenal				
	V	(323–423)	55.1	298	GC	[2005HOS/GRY]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{14}O$	[1585-06-4]	4-ethylphenetole				
	V	(321–481)	54.3	336	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[22545-12-6]	2-(2-ethylphenyl)ethanol				
	V	(420–653)	59.5	435	A	[1987STE/MAL, 1949DRE/MAR, 1949DRE/SHR]
$C_{10}H_{14}O$	[22545-13-7]	2-(4-ethylphenyl)ethanol				
	V	(420–653)	59.1	435	A	[1987STE/MAL, 1949DRE/MAR, 1949DRE/SHR]
$C_{10}H_{14}O$	[536-60-7]	4-isopropylbenzyl alcohol				
	V	(347–520)	59.7	362	A	[1987STE/MAL, 1947STU]
$C_{10}H_{14}O$	[7384-80-7]	2-methyl-3-phenyl-1-propanol				
	V	(343–393)	71.9	358	A	[1987STE/MAL]
$C_{10}H_{14}O$	[3299-05-6]	(1-ethoxyethyl)benzene				
	V	(286–318)	52.4 ± 0.2	302	GS	[2001VER/HEI]
	V	(286–318)	52.6 ± 0.2	298	GS	[2001VER/HEI]
$C_{10}H_{14}O$	[700-58-3]	2-adamantanone				
	TRS	(5–310)	7.63	216.4	AC	[2006BAZ/BLO]
	FUS		11.77	557.5	DSC	[2006BAZ/BLO]
	SUB		66.4 ± 0.3	298	C	[2006BAZ/BLO]
	SUB	(280–333)	66.3 ± 0.8	298	ME	[2006BAZ/BLO]
	SUB		76.1 ± 1.5	298	C	[2002MIR/LEB, 2006BAZ/BLO, 2002MIR/LEB2, 2001MAT/LEB]
	SUB	(320–370)	80.3 ± 2.5	298	BG	[1978ARO/STE]
	V		60.7 ± 0.2	298	GC	[2002VAN/PAR]
$C_{10}H_{14}O$	[935-67-1]	(1-methoxy-1-methylethyl)-benzene				
	V	(278–313)	53.0 ± 0.5	296	GS	[2001HEI/VER]
	V	(278–313)	52.9 ± 0.5	298	GS	[2001HEI/VER]
$C_{10}H_{14}O_2$	[4026-05-5]	1,2-dihydroxy-3-*tert*-butylbenzene				
	V	(334–384)	70.1 ± 0.8	359	GS	[2000VER/SCH]
	V	(334–384)	73.5 ± 0.8	298	GS	[2000VER/SCH]
$C_{10}H_{14}O_2$	[98-29-3]	1,2-dihydroxy-4-*tert*-butylbenzene				
	FUS		15.1	330.4	DSC	[2000VER/SCH]
	FUS		4.5	327		[1997STE/CHI2]
[Note: Reference [2000VER/SCH] notes the large discrepancy between their measured enthalpy of fusion and that reported in [1997STE/CHI2]. The authors of [2000VER/SCH] attribute the difference to the solid sample in [1997STE/CHI2] being only partly crystalline.]						
	SUB	(303–323)	98.7 ± 0.9	313	GS	[2000VER/SCH]
	SUB	(303–323)	99.2 ± 0.9	298	GS	[2000VER/SCH]
	SUB		99.3 ± 1.4	298	C	[1984CAR]
	V	(439–516)	96.5 ± 2.8	298	EB	[1997STE/CHI2]
	V	(439–516)	69.6 ± 0.6	440	EB	[1997STE/CHI2]
	V	(439–516)	65.2 ± 0.5	480	EB	[1997STE/CHI2]
$C_{10}H_{14}O_2$	[1948-33-0]	2-*tert*-butyl-1,4-dihydroxybenzene				
	FUS		27.74	350.9	DSC	[1999VER7]
	SUB	(333–368)	101.2 ± 1.3	351	GS	[1999VER7]
	SUB	(333–368)	104.4 ± 1.3	298	GS	[1999VER7]
$C_{10}H_{14}O_2$	[13331-20-9]	1,3-dihydroxy-2-butylbenzene				
	V	(413–469)	75.3	428	A, GC	[1987STE/MAL, 1975KUN/LIL]
$C_{10}H_{14}O_2$	[2785-87-7]	2-methoxy-4-propylphenol				
	V	(373–413)	78.0	388	A	[1987STE/MAL]
$C_{10}H_{14}O_2$		*tert*-butylcatechol (isomer not specified)				
	V	(421–466)	58.2	443		[1965GAK/BAB]
$C_{10}H_{14}O_2$	[490-06-2]	6-methyl-3-isopropyl-1,2-dihydroxybenzene				
	SUB		96.6 ± 0.9	298	C	[1984CAR]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{14}O_2$	[18523-34-7]	1,1-dimethoxy-2-phenylcyclopropane				
	V	(278–313)	63.7 ± 0.6	298	GS	[2002VER]
$C_{10}H_{14}O_2$	[4316-35-2]	acetophenone dimethyl ketal				
	V	(268–303)	54.0 ± 0.8	298	GS	[2002VER]
	V	(268–303)	55.0 ± 1.3	286	GS	[1995VER/DOG]
$C_{10}H_{14}O_2$	[2767-84-2]	(1S)-(+)-camphorquinone				
	FUS		6.07	473.2	DSC	[1992ELS/PRA]
[Note: Fusion enthalpy seems low, the compound may have an unmeasured phase transition at a lower temperature.]						
$C_{10}H_{14}O_2$	[21651-62-7]	(4aS,7S,7aR)-nepetalactone				
	V		69.4 ± 1.9	298	CGC	[2016SIM/GOB]
$C_{10}H_{14}O_2$	[17257-15-7]	(4aS,7S,7aS)-nepetalactone				
	V		68.0 ± 1.9	298	CGC	[2016SIM/GOB]
$C_{10}H_{14}O_3$	[707-07-3]	trimethyl orthobenzoate				
	V	(294–333)	59.9 ± 0.4	298	GS	[2002VER]
	V	(294–333)	58.6 ± 0.4		GS	[1995RAK/VER2]
$C_{10}H_{14}O_3$	[595-31-3]	(*d*)-camphoric anhydride				
	TRS		19.5	404.4		
	FUS		5.65	493.6	DSC	[1984WEI/LEF]
	TRS		29	406		
	FUS		8.7	495	DSC	[1979MJO]
$C_{10}H_{14}O_3$	[76-32-4]	(*dl*)-camphoric anhydride				
	TRS		17.31	374.5		
	FUS		5.72	493.9	DSC	[1984WEI/LEF]
	TRS		24.0	375		
	FUS		8.7	495	DSC	[1979MJO]
$C_{10}H_{14}O_3$		(racemic) 3-(2-methylphenoxy)propane-1,2-diol				
	FUS		32.2	343.8	DSC	[2008BRE/BRE]
$C_{10}H_{14}O_3$	[52153-44-3]	(*S*)- 3-(2-methylphenoxy)propane-1,2-diol				
	FUS		34.4	364.2	DSC	[2008BRE/BRE]
$C_{10}H_{14}O_3$	[59-47-2]	3-(2-methylphenoxy)propane-1,2-diol (mephenesin)				
	FUS		29.8	343.1	DSC	[2014SAI/MUR]
$C_{10}H_{14}O_5$		allyl[(1-allyloxycarbonyl)ethyl] carbonate				
	V	(353–503)	61.9	368	A	[1987STE/MAL]
$C_{10}H_{14}O_8$		(*dl*)-dimethyl diacetyltartrate				
	FUS		25.94	355.2		[1991CHI/BRA]
$C_{10}H_{14}O_8$		(*d*)-dimethyl diacetyltartrate				
	FUS		29.29	377.2		[1991CHI/BRA]
$C_{10}H_{15}Br$	[768-90-1]	1-bromoadamantane				
	TRS	(6–320)	0.001	31	AC	[2005BAZ/BLO]
	TRS	(6–320)	1.39	282.3	AC	[2005BAZ/BLO]
	TRS	(290–430)	7.42	309.9	DSC	
	FUS	(290–430)	3.97	391.8	DSC	[2005BAZ/BLO]
	TRS		0.88	279		
	TRS		6.93	310.5		
	FUS		3.83	396.5	DSC	[1977CLA/KNO]
	SUB(II)	(288–310)	71.6 ± 1.1	299	ME	[2005BAZ/KAB]
	SUB(II)		71.8 ± 0.3	303	C	[2005BAZ/KAB]
	SUB(I)	(310–323)	63.2 ± 2.1	317	ME	[2005BAZ/KAB]
$C_{10}H_{15}Br$	[7314-85-4]	2-bromoadamantane				
	TRS		12.09	277.9		
	FUS		3.21	413.4	DTA	[2014NEG/BAR]
$C_{10}H_{15}Cl$	[935-56-8]	1-chloroadamantane				
	FUS	(13–445)	5.53	439.7	AC	[1998KOB/KYO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	TRS		6.01	244.2		
	FUS		4.87	442.5	DSC	[1977CLA/KNO]
	SUB		63.2 ± 0.7	298	ME	[1999FLO/DAV]
$C_{10}H_{15}Cl$	[7346-41-0]	2-chloroadamantane				
	TRS		0.48	224.4		
	TRS		8.27	240.9		
	TRS		0.17	244.0		
	FUS		5.3	467.5	DTA	[2014NEG/BAR]
	TRS		0.47	227		
	TRS		8.3	242	DSC	[1988PAR/KAW]
	SUB		61.5 ± 0.8	298	ME	[2002ABB/CAS]
$C_{10}H_{15}Cl_3OS$	[76633-71-1]	2,3,3-trichloro-2-propenethioic acid, O-heptyl ester				
	V	(433–483)	72.7		GC	[1980PIT/KIS]
$C_{10}H_{15}F$	[768-92-3]	1-fluoroadamantane				
	TRS		1.65	227	DSC	[1991KAW/GIL]
	TRS		1.5	221.6	DSC	[1977CLA/KNO]
$C_{10}H_{15}I$	[768-93-4]	1-iodoadamantane				
	TRS		2.14	211		
	FUS		10.22	347	DSC	[1977CLA/KNO]
$C_{10}H_{15}N$	[6310-21-0]	2-*tert*-butylaniline				
	V	(279–318)	62.7 ± 0.4	298	GS	[2000VER3]
$C_{10}H_{15}N$	[579-66-8]	2,6-diethylaniline				
	V	(284–328)	69.5 ± 0.6	306	GS	[2000VER3]
	V	(284–328)	65.9 ± 0.6	298	GS	[2000VER3]
$C_{10}H_{15}N$	[2051-53-8]	5-isopropyl-2-methylaniline				
	V	(360–386)	72.0	373	A	[1987STE/MAL]
$C_{10}H_{15}N$	[537-46-2]	*N*-α-dimethylphenethylamine				
	V		58.7 ± 4.3	298	CGC	[2014THO/GOB]
	V	(270–304)	52.8	285	A	[1987STE/MAL]
$C_{10}H_{15}N$	[1126-78-9]	*N*-butylaniline				
	V	(413–643)	55.6	428	A	[1987STE/MAL]
$C_{10}H_{15}N$	[91-66-7]	*N,N*-diethylaniline				
	V	(343–493)	54.5	358	A	[1987STE/MAL]
$C_{10}H_{15}N$	[122-09-8]	α, α-dimethylphenethylamine				
	V		60.2 ± 2.6	298	CGC	[2013GOB/RAT]
$C_{10}H_{15}NO$	[3319-03-7]	2-(dimethylamino)-1-phenylethanone				
	V	(293–333)	69.7 ± 0.5	298	GS	[1994WEL/VER]
$C_{10}H_{15}NO$	[103-62-8]	4-(butylamino)phenol				
	V	(464–511)	71.2	478	A	[1987STE/MAL]
$C_{10}H_{15}NO$	[55658-55-4]	(*dl*)-carvoxime				
	FUS		17.03	365.1	DTA	[1981CHI/GAR]
	SUB	(324–343)	101.6 ± 5	334	HSA	[1981CHI/GAR]
$C_{10}H_{15}NO$	[80124-30-7]	(*d*)-carvoxime				
	FUS		22.72	346.5	DTA	[1981CHI/GAR]
	SUB	(324–343)	90.8 ± 4.5	334	HSA	[1981CHI/GAR]
$C_{10}H_{15}NO$	[90-82-4]	(+)-*threo*-2-(methylamino)-1-phenyl-1-propanol (pseudoephedrine)				
	FUS		31.95	392.4	DSC	[1999LI/ZEL]
$C_{10}H_{15}NO$	[4125-58-0]	(±)-*threo*-2-(methylamino)-1-phenyl-1-propanol (pseudoephedrine)				
	FUS		34.1	391.1	DSC	[1999LI/ZEL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{15}NO$	[299-42-3]	(-)-2-(methylamino)-1-phenyl-1-propanol (ephedrine)				
	FUS		11.97	310.0	DSC	[2010COO/DAV]
[Note: The authors of [2010COO/DAV] state that ephedrine hydrates readily in air, and that the sample used was as received. Sample may be mixture of hydrated and unhydrated phases.]						
	FUS		17.33	312.9	DSC	[1999LI/ZEL]
$C_{10}H_{15}NO$	[90-81-3]	(±)-2-(methylamino)-1-phenyl-1-propanol (ephedrine)				
	FUS		29.09	350.7	DSC	[1999LI/ZEL]
$C_{10}H_{15}NO_2$	[120-07-0]	*N,N*-bis(2-hydroxyethyl)aniline				
	V	(418–611)	77.6	433	A	[1987STE/MAL, 1947STU]
$C_{10}H_{15}NO_2$	[7575-82-8]	1-nitroadamantane				
	FUS		4.18	435.2	DSC	[1990FRI/DOG]
[Note: Entropy seems low, the compound may have lower temperature phase transitions.]						
	SUB		81.2 ± 2.0	298	C	[2002MIR/LEB2, 2001MAT/LEB]
	SUB	(321–357)	63.6 ± 1.0	339	T	[1990FRI/DOG]
$C_{10}H_{15}NO_2$	[54564-31-7]	2-nitroadamantane				
	FUS		4.23	452.2	DSC	[1990FRI/DOG]
[Note: Entropy seems low, the compound may have lower temperature phase transitions.]						
	SUB	(331–368)	58.0 ± 2.3	350	T	[1990FRI/DOG]
$C_{10}H_{15}NO_3$	[32314-61-7]	1-nitroxyadamantane				
	SUB		79.9 ± 1.5	298	C	[2002MIR/LEB2, 2001MAT/LEB]
$C_{10}H_{15}N_5$	[153495-35-3]	6,9-dimethyl-8-propyladenine				
	FUS		30.2	411.9		[1994ZIE/ZIE]
	SUB	(345–349)	129.0 ± 0.1	347	ME	[1994ZIE/ZIE]
$C_{10}H_{15}N_5$	[117954-98-0]	8-butyl-9-methyladenine				
	SUB	(363–368)	135.1 ± 1.2	366	ME	[1987KAM/ZIE]
$C_{10}H_{15}N_5O_3$	[39809-25-1]	9-(4-hydroxy-3-hydroxymethylbut-1-yl)quanine				
	FUS		35.74	551.2	DSC	[2004AHM/BAR]
$C_{10}H_{15}O_3PS_2$	[55-38-9]	*O,O*-dimethyl-*O*-[3-methyl-4-(methylthio)phenyl]thiophosphate				
	V	(293–373)	75.6	308	A	[1987STE/MAL, 1999DYK/SVO]
$C_{10}H_{16}$	[53130-19-1]	tricyclo[4.3.1.0^{3,8}]decane				
	SUB	(310–335)	64.9 ± 1.8	323	TSGC	[1975CLA/KNO]
	SUB		65.6	298	H	[1975CLA/KNO, 1993CHI/HOS]
$C_{10}H_{16}$	[6004-38-2]	tricyclo[5.2.1.0^{2,6}]decane				
	TRS	(80–360)	2.57	204.3		
	FUS	(80–360)	3.07	345.3	AC	[2003KON/TAN]
	FUS		2.95	352	DSC	[1996DOM/HEA, 1971BOY/SAN]
	SUB	(359–443)	52.9 ± 1.3	298	BG	[1971BOY/SAN, 1977PED/RYL]
	V	(394–457)	46.0	409	EB	[2009XIN/FAN, 2011XIN/YAN]
	V	(358–465)	43.5	373	A	[1987STE/MAL]
	V	(358–417)	43.5 ± 0.8	387	BG	[1971BOY/SAN]
$C_{10}H_{16}$		*exo*-tricyclo[5.2.1.0^{2,6}]decane				
	V	(395–447)	45.9	410	EB	[2014LI/SUN]
$C_{10}H_{16}$	[2825-82-3]	*exo*-tetrahydrodicyclopentadiene				
	TRS		3.18	162.1		
	FUS		1.2	183.2	DSC	[2002CHI/HIL]
$C_{10}H_{16}$	[2825-83-4]	*endo*-tetrahydrodicyclopentadiene				
	TRS		10.7	213.8		
	FUS		3.48	356.8	DSC	[2002CHI/HIL]
$C_{10}H_{16}$	[17760-91-7]	tricyclo[5.2.1.0^{4,10}]decane (hexahydrotriquinacene)				
	SUB		56.6 ± 1.3	307	TSGC	[1979CLA/KNO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{16}$	[283-50-1]	bicyclo[3.3.2]decane				
	SUB	(290–340)	58.2 ± 2	298	TSGC	[1977PAR/STE]
$C_{10}H_{16}$	[281-23-2]	adamantane				
	TRS	(80–370)	3.28	208.7	AC	[2011BAZ/BLO]
	TRS		2.8	207.7	DSC	[2007BLA]
	TRS	(6–330)	3.21	208	AC	[2006VAN/VAN]
	FUS		12.4	543	DSC	[2001ESP/CEO]
	FUS	(340–600)	13.8	543.2		[2000KAB/BLO]
	FUS		10.9	541	DSC	[1998CHI/HES, 1966PIR]
	TRS	(5–350)	3.38	208.6	AC	[1960CHA/WES, 1961WES, 1996DOM/HEA, 1993HAK]
	SUB		58.2 ± 1.2	298	C	[2002MIR/LEB2]
	SUB		59.4 ± 0.2	298	C	[2001MAT/LEB]
	SUB		59.1	298		[2000MOK/RUZ]
	SUB		58.3	308	C	[2000KAB/BLO]
	SUB		52.6	298	CGC-DSC	[1998CHI/HES]
	SUB	(278–368)	59.7	293	A	[1987STE/MAL]
	SUB	(328–373)	55.3	343	A	[1987STE/MAL]
	SUB		58.45	298	C	[1982JOC/DEK]
	SUB	(278–443)	59.5	300		[1975LEE/SLU]
	SUB	(310–336)	59.7 ± 0.8	326	TSGC	[1975CLA/KNO, 1979CLA/KNO]
	SUB		58.6	298	H	[1975CLA/KNO, 1993CHI/HOS]
	SUB	(310–336)	59.3 ± 0.2	326	BG	[1971BOY/SAN]
	SUB		60.5 ± 1.3	298	H	[1971BOY/SAN, 1993CHI/HOS]
	SUB	(312–366)	53.6	332	I	[1971WU/HSU]
	SUB		54.8	298	H	[1971WU/HSU, 1993CHI/HOS]
	SUB		59.3 ± 0.16	298	C	[1970MAN/RAP]
	SUB		59.5	298		[1970VON/WIL, 1971BUT/CAR]
	SUB	(343–483)	54.3	358	A	[1987STE/MAL, 1968FLO]
	SUB	(313–353)	58.6 ± 0.6	333	DBM	[1967BRA/SZI]
	SUB		59.6	298	H	[1967BRA/SZI, 1993CHI/HOS]
	SUB		62.3	298		[1967BRA/SZI]
	V		48.2	298	GC	[2002VAN/PAR]
	V	(403–453)	51.7	298	CGC	[1995CHI/HOS]
$C_{10}H_{16}$	[79-92-5]	(*dl*)-2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane (camphene)				
	FUS		2.7	317.6	DSC	[2014STE/FUL]
	SUB	(238–308)	47.5 ± 0.3	298	Static	[2014STE/FUL]
	SUB		46.8		C	[1977KOZ/BYC]
	V	(310–407)	37.7	430	BP	[2014WAN/HUA]
	V	(313–413)	44.7	298	GC	[2005HOS/GRY]
	V	(320–434)	44.0	335	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}$	[4497-92-1]	(*d*)-3,7,7-trimethylbicyclo[4.1.0]hept-2-ene (2-carene)				
	V	(313–413)	48.5	298	GC	[2005HOS/GRY]
	V	(293–450)	45.5	308	A	[1987STE/MAL, 1954BUK/MAJ]
$C_{10}H_{16}$	[498-15-7]	(*d*)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (3-carene)				
	V	(238–308)	48.1 ± 0.3	298	Static	[2014STE/FUL2]
	V	(313–413)	48.5	298	GC	[2005HOS/GRY]
	V	(359–443)	42.8	374	A	[1987STE/MAL, 1937RUD/KOR]
$C_{10}H_{16}$	[5989-27-5]	(*d*)-limonene				
	FUS		11.38	199.2		[1996GAL/VAN3, 2000GAL/VAN]
	V	(238–308)	49.3 ± 0.3	298	Static	[2014STE/FUL2]
	V	(326–445)	49.5	298		[2009CLA/GOM]
	V	(313–413)	49.6	298	GC	[2005HOS/GRY]
	V		49.9	298	GC	[2002VAN/PAR]
	V	(339–495)	46.1 ± 0.2	350	EB	[2002STE/CHI2]
	V	(339–495)	43.5 ± 0.2	390	EB	[2002STE/CHI2]
	V	(339–495)	40.9 ± 0.3	430	EB	[2002STE/CHI2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(339–495)	37.9 ± 0.6	470	EB	[2002STE/CHI2]
	V	(243–461)	49.2	300		[1999DIA/GUE]
	V	(373–423)	49.6	298	CGC	[1995CHI/HOS]
	V		48.9 ± 0.1	298	C	[1987ATI/SAI]
	V	(287–448)	44.5	302	A	[1987STE/MAL]
	V	(288–323)	47.7	303	A	[1987STE/MAL]
$C_{10}H_{16}$	[5989-54-8]	(*l*)-limonene				
	V	(238–308)	49.3 ± 0.3	298	Static	[2014STE/FUL2]
	V	(320–451)	47.4	335		[1996ROD/BER]
	V	(325–450)	47.0	340		[1993NAD/BER]
	V		49.0 ± 0.1	298	C	[1987ATI/SAI]
	V	(303–363)	45.5	318	A	[1987STE/MAL, 1954BUK/MAJ]
$C_{10}H_{16}$	[138-86-3]	(*dl*)-limonene				
	V	(347–420)	45.3	370	BP	[2014WAN/HUA]
	V	(287–448)	45.9	302	A	[1987STE/MAL]
$C_{10}H_{16}$		limonene				
	V	(353–405)	39.4	379	TGA	[2002HAZ/DOL]
$C_{10}H_{16}$		β-myrcene				
	V	(303–363)	47.0	318		[1954BUK/MAJ]
$C_{10}H_{16}$	[123-35-3]	7-methyl-3-methylene-1,6-octadiene (myrcene)				
	V		50.6	298	GC	[2002VAN/PAR]
	V	(287–445)	45.7	302	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}$	[99-83-2]	5-isopropyl-2-methyl-1,3-cyclohexadiene				
	V	(293–448)	47.7	308	A	[1987STE/MAL]
$C_{10}H_{16}$	[555-10-2]	3-isopropyl-6-methylenecyclohexene				
	V	(303–363)	47.7	318	A	[1987STE/MAL, 1954BUK/MAJ]
$C_{10}H_{16}$	[7785-26-4]	(-)-α-pinene				
	V	(238–308)	44.6 ± 0.1	298	Static	[2013STE/FUL]
$C_{10}H_{16}$		α-pinene				
	V	(320–429)	42.5	335		[1996ROD/BER]
	V	(365–430)	40.2	380		[1993REI/SAN]
	V		44.6 ± 0.1	298	C	[1987AN/HU]
	V	(327–363)	43.6			[1954TUC/HAW]
	V	(363–395)	40.8			[1954TUC/HAW]
	V	(395–413)	39.6			[1954TUC/HAW]
$C_{10}H_{16}$	[80-56-8]	(*d*)-α-pinene				
	V	(308–427)	45.4	298		[2009CLA/GOM]
	V	(292–433)	45.0	307	A	[1987STE/MAL]
	V	(293–363)	43.4	308		[1954BUK/MAJ]
$C_{10}H_{16}$	[127-91-3]	β-pinene				
	V	(290–439)	46.0	305		[1996ROD/BER]
	V	(364–439)	41.6	379		[1993REI/SAN]
	V		45.8 ± 0.1	298	C	[1987AN/HU]
	V	(353–371)	44.0			[1954TUC/HAW]
	V	(372–404)	41.5			[1954TUC/HAW]
$C_{10}H_{16}$		(*l*)-β-pinene				
	V	(291–441)	46.1	306	A	[1987STE/MAL]
	V	(293–363)	44.9	308		[1954BUK/MAJ]
$C_{10}H_{16}$	[18172-67-3]	(-)-β-pinene				
	V	(248–308)	45.9 ± 0.1	298	Static	[2013STE/FUL]
$C_{10}H_{16}$	[586-62-9]	terpinolene				
	V	(313–363)	50.8	328		[1954BUK/MAJ]
	V	(305–458)	50.5	320	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}$	[99-85-4]	γ-terpinene				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(313–413)	51.4	298	GC	[2005HOS/GRY]
$C_{10}H_{16}$	[4221-98-1]	sabinene				
	V	(313–413)	46.9	298	GC	[2005HOS/GRY]
$C_{10}H_{16}$	[4221-98-1]	(-)-α-phellandrene				
	V	(313–423)	48.3	298	GC	[2005HOS/GRY]
$C_{10}H_{16}$	[2867-05-2]	α-thujene				
	V	(313–413)	44.8	298	GC	[2005HOS/GRY]
$C_{10}H_{16}Cl_3NOS$	[2303-17-5]	carbamothioic acid, bis(isopropyl), *S*-(2,3,3-trichloroallyl) ester				
	FUS		27.11	306.4	DSC	[1991ACR, 1990DON/DRE]
	V	(293–318)	84.3	305	A	[1987STE/MAL]
	V	(293–318)	84.0			[1983SPE/CLI, 1978GRO/SPE]
$C_{10}H_{16}NO_4PS$	[52-85-7]	*O*-[4-(dimethylamino)sulfonyl]phenyl] *O,O*-dimethylphosphorothionate				
	FUS		26.5	326.8	DSC	[1990DON/DRE]
$C_{10}H_{16}N_2$	[1871-96-1]	sebaconitrile				
	FUS		28.2	281.2	DSC	[2007BAD/BLA]
	V	(303–343)	83.7	318	A	[1987STE/MAL]
$C_{10}H_{16}N_2$	[33089-74-6]	*N′*-(2,4-dimethylphenyl)-*N*-methylformamidine				
	V		89.2	303		[1998ZHA/MO]
$C_{10}H_{16}N_2$	[85688-96-6]	methyl(1,1,1-trimethylpropyl)propanedinitrile				
	SUB		62.0 ± 0.7	298		[1990BEC/DOG]
$C_{10}H_{16}N_2$	[85688-95-5]	(1,1-dimethylpropyl)ethylpropanedinitrile				
	FUS		19.25	307.5		[1990BEC/DOG]
	SUB		76.2 ± 0.8	298		[1990BEC/DOG]
$C_{10}H_{16}N_2$	[85688-81-9]	*meso*-2,3-diethyl-2,3-dimethylsuccinonitrile				
	FUS		26.78	370.2		[1983BAR/BEC]
$C_{10}H_{16}N_2$	[71621-00-6]	*N*-cyclohexylmethylimidazole				
	V	(314–353)	77.5 ± 0.4	298	GS	[2015VER/ZAI3]
$C_{10}H_{16}N_2O_2$	[82413-40-9]	1,3-dimethyl-5-butyluracil				
	FUS		22.0	312.1	DSC	[1996KAM/ZIE]
	SUB	(306–311)	106.3 ± 1.3	309	ME	[1996KAM/ZIE]
$C_{10}H_{16}N_2O_2$	[125-40-6]	5-ethyl-5-(1-methylpropyl)-2,4,6(1*H*, 3*H*, 5*H*)-pyrimidinetrione (butabarbitone)				
	FUS		23.1		DSC	[1982TRE/VAU]
$C_{10}H_{16}N_2O_2S$	[1709-39-3]	4-amino-*N,N*-diethylbenzene sulfonamide				
	FUS		19.4	378.8	DSC	[2014PER/KAZ]
$C_{10}H_{16}N_2O_3$	[77-28-1]	5-butyl-5-ethylbarbituric acid (butobarbital)				
	FUS(I)		13.6	394.2		
	FUS(II)		14.7	392.7		
	FUS(III)		17.3	396.2	DSC	[1989CHA/DEM]
	FUS		16.8		DSC	[1982TRE/VAU]
$C_{10}H_{16}N_4O_2S$	[55511-98-3]	3-(5-(1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl)-4-hydroxy-1-methyl-2-imidazolidinone				
	FUS		25.46	408.9	DSC	[1990DON/DRE]
$C_{10}H_{16}N_6S$	[51481-61-9]	*N*-cyano-*N′*-methyl-*N″*-[2-[(5-methyl-1*H*-imidazol-4-yl)-thio]ethyl]quanidine (cimetidine)				
	FUS		35.49	414.15	DSC	[2015MAT/MOR]
	FUS		U79.7	415.1	DSC	[2011DOM/POB]
	FUS		41.36	414.9		
	FUS		41.97	416.6	DSC	[2002SOU/DAV]
	FUS(I)		41.0	413.8		
	FUS(II)		39.7	413.5	DSC	[1999BAU/MAR]
	FUS(A)		34.8	413.7		
	FUS(B)		35.4	413.6		

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS(C)		36.6	417.7		
	FUS(D)		38.2	412.2	DSC	[1996BAU]
[Note: Cimetidine is reported to have seven different crystalline forms [1990SUD/SAT], with only two being used in the pharmaceutical industry.]						
$C_{10}H_{16}O$	[29171-20-8]	3,7-dimethyl-6-octen-1-yn-3-ol (dehydrolinalool)				
	V	(406–471)	52.1	421	EB	[2001ZHU/LI]
	V	(359–381)	Unreliable			[1999ZAR/CHA]
	V	(369–445)	50.4 ± 0.1	407	Static	[1988BAG/GUR]
$C_{10}H_{16}O$		camphor				
	V	(343–383)	54.4	298	CGC	[1995CHI/HOS]
	V	(343–383)	54.5	298	CGC	[1995CHI/HOS]
	V	(343–383)	55.2	298	CGC	[1995CHI/HOS]
$C_{10}H_{16}O$	[464-48-2]	(-)-camphor				
	TRS		11.0	243.9		
	TRS		0.2	373.4		
	FUS		4.9	448.5	DSC	[2014STE/FUL]
	SUB	(273–308)	56.9 ± 0.3	298	Static	[2014STE/FUL]
$C_{10}H_{16}O$	[464-49-3]	(*d*)-camphor				
	TRS		11.2	242.7		
	TRS		0.16	370.0		
	FUS		6.3	451.8	DSC	[2010RIE/BAR]
	TRS		16.0	242.0		
	TRS		0.23	374.0		
	FUS		6.0	450.8	DSC	[2003ABR/SMI, 2010RIE/BAR]
	TRS		11.3	244.0		
	FUS		5.4	450.0	DSC	[1983SEK/TSU, 2010RIE/BAR]
	TRS		10.65	243.0		[1970ROB/ROS, 2010RIE/BAR]
	FUS		5.3	452.0	DSC	[1979MJO]
	TRS		11.5	245.0		[1956SCH/WAG, 2010RIE/BAR]
	FUS		6.0	450.8		[1899HUL, 2010RIE/BAR]
$C_{10}H_{16}O$	[76-22-2]	(*dl*)-camphor				
	TRS		1.3	206.1		
	TRS		0.17	364		
	FUS		5.9	448.0	DSC	[2010RIE/BAR]
	FUS		5.6	443.0	DSC	[2003ABR/SMI, 2010RIE/BAR]
	TRS		0.72	203.8		
	TRS		0.23	350.0		[1958SCH/WAG, 2010RIE/BAR]
	TRS		0.84	210.0		
	FUS		6.86	452.0		[1952SCH/FRE, 2010RIE/BAR]
	SUB		51.8 ± 0.8			[1977STE]
	SUB	(273–293)	51.5 ± 2.6	283	HSA	[1975CHI]
	SUB	(273–298)	U 65.8			[1960JON, 1940ZIL]
	SUB		50.7			[1960JON, 1937DEW]
	SUB	(273–453)	53.6	363		[1960JON]
	SUB	(285–318)	54.7	301		[1957SHE/BRY]
$C_{10}H_{16}O$	[464-49-3]	(+)-camphor				
	V		55.3	298	GC	[2002VAN/PAR]
$C_{10}H_{16}O$	[547-61-5]	(-)-*trans*-pinocarveol				
	V	(283–323)	62.5 ± 1.0	298	GS	[2010WID/BRU]
$C_{10}H_{16}O$	[1686-14-2]	α-pinene oxide				
	V		53.6	298	GC	[2002VAN/PAR]
$C_{10}H_{16}O$	[13854-85-8]	(*d*)-3-bornanone				
	SUB	(273–408)	54.2	288	A	[1987STE/MAL]
	SUB	(323–339)	55.0	331	A	[1987STE/MAL]
	SUB	(408–451)	49.8	423	A	[1987STE/MAL]
	V	(452–488)	44.6	467	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{16}O$	[4695-62-9]	(*d*)-1,3,3-trimethylbicyclo[2.2.1]heptan-2one (fenchone)				
	FUS		17.4	278.6	DSC	[2014STE/FUL]
	SUB	(238–278)	67.3 ± 0.4	298	Static	[2014STE/FUL]
	V	(243–308)	51.8 ± 0.3	298	Static	[2014STE/FUL]
[Note: VP measurements in [2014STE/FUL] include values for the subcooled liquid.]						
	V	(365–384)	47.0	374		[2002BAT]
	V		51.7 ± 0.1	298	C	[1987ATI/SAI]
	V		51.4 ± 0.1	298	C	[1987ATI/SAI]
	V		51.1 ± 0.1	298	C	[1985KUS]
	V	(301–464)	48.9	316	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O$	[7787-20-4]	(*l*)-1,3,3-trimethylbicyclo[2.2.1]heptan-2one (fenchone)				
	V		51.1 ± 0.1	298	C	[1987ATI/SAI]
	V		51.3 ± 0.1	298	C	[1987ATI/SAI]
	V		51.4 ± 0.1	298	C	[1985KUS]
$C_{10}H_{16}O$	[89-82-7]	pulegone				
	V	(353–453)	58.0	298	GC	[2005HOS/GRY]
	V		62.0	298	GC	[2002VAN/PAR]
	V	(331–494)	U99.8	346	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O$	[471-15-8]	(*d*)-1-isopropyl-4-methylbicyclo[3.1.0]hexan-3-one (thujone)				
	V	(311–474)	51.8	326	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O$	[499-74-1]	(*dl*)-3-isopropyl-6-methyl-2-cyclohexene-1-one				
	V	(364–507)	56.9	379	A	[1987STE/MAL]
$C_{10}H_{16}O$	[43205-82-9]	5-isopropyl-2-methyl-2-cyclohexen-1-one				
	V	(361–503)	56.8	376	A	[1987STE/MAL]
$C_{10}H_{16}O$	[21218-11-1]	3,4-epoxycarane (α-isomer)				
	V		49.4			[1977ALE/KOZ]
$C_{10}H_{16}O$	[35671-18-2]	3,4-epoxycarane (β-isomer)				
	V		50.2			[1977ALE/KOZ]
$C_{10}H_{16}O$	[4584-09-2]	(*dl*)-dihydrocarvone				
	V	(319–496)	51.2	334	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O$	[5392-40-5]	citral				
	V	(372–473)	55.9	298		[2009CLA/GOM]
$C_{10}H_{16}O$	[141-27-5]	geranial (*trans*-citral)				
	V	(343–453)	62.5	298	GC	[2005HOS/GRY]
	V	(283–333)	61	298	A	[1987STE/MAL]
	V	(373–501)	54.9	388	A	[1987STE/MAL]
$C_{10}H_{16}O$	[13040-03-4]	(+)-*cis*-verbenol				
	V	(323–433)	54.9	298	GC	[2005HOS/GRY]
$C_{10}H_{16}O$	[18881-04-4]	(-)-*cis*-verbenol				
	SUB	(278–313)	81.2 ± 0.1	298	Static	[2013STE/FUL]
	SUB		80.0 ± 1.2	298	C	[2013STE/FUL]
$C_{10}H_{16}O$	[22339-08-8]	(+)-*trans*-verbenol				
	V	(323–433)	55.0	298	GC	[2005HOS/GRY]
$C_{10}H_{16}O$	[106-26-3]	neral				
	V	(343–453)	60.2	298	GC	[2005HOS/GRY]
$C_{10}H_{16}O$	[768-95-6]	1-adamantanol				
	TRS	(5–600)	11.29	357.1		
	FUS	(5–600)	12.36	552.9		[2003CHA/BLO]
	TRS		13.81	365	DSC	[1991CHI/BRA]
	TRS		2.5	369.2	DTA	[1989SAL/ABA2, 1987SAL/SAI]
	SUB		86.8 ± 0.2	298	C	[2003CHA/BLO2]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	SUB	(288–323)	86.7 ± 0.2	298	ME	[2003CHA/BLO2]
	SUB		82.0 ± 1.5	298	C	[2002MIR/LEB2, 2001MAT/LEB]
	SUB	(320–370)	86.6 ± 2.5	298	BG	[1978ARO/STE]
	V		60.8	298	GC	[2002VAN/PAR]
$C_{10}H_{16}O$	[700-57-2]	2-adamantanol				
	TRS	(5–600)	0.16	238.4		
	TRS	(5–600)	2.3	322.3		
	TRS	(5–600)	7.98	389.3		
	FUS	(5–600)	11.94	567.3		[2003CHA/BLO]
	TRS		0.3	325.2		
	TRS		3.74	391.2	DTA	[1989SAL/ABA2, 1988SAL/ABA]
	SUB	(303–318)	88.1 ± 1.6	298	ME	[2003CHA/BLO2]
	SUB	(320–370)	88.7 ± 2.5	298	BG	[1978ARO/STE]
$C_{10}H_{16}O$	[20379-99-1]	*trans*-octahydro-3a-methyl-2*H*-inden-2-one				
	V		58.3 ± 0.2	298	C	[1970SEL]
$C_{10}H_{16}O$	[13351-29-6]	*cis*-8-methyl-2-hydrindanone				
	SUB		60.9 ± 0.2	298	C	[1970SEL, 1977PED/RYL]
$C_{10}H_{16}O_2$	[2704-78-1]	3-acetyl-2,2-dimethylcyclobutaneacetaldehyde (pinonaldehyde)				
	V	(283–308)	75.5 ± 5.6		ME	[1997HAL/WAN]
$C_{10}H_{16}O_2$	[26946-56-5]	2,2-dimethyl-3-(2-oopropyl)cyclopropaneacetaldehyde (caronaldehyde)				
	V	(283–308)	77.4 ± 6.9		ME	[1997HAL/WAN]
$C_{10}H_{16}O_2$	[490-03-9]	1-methyl-4-isopropyl-1-cyclohexen-2-ol-3-one (diosphenol)				
	V	(339–505)	56.2	354	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O_2$	[512-77-6]	1-methyl-3-(1-methylethyl)-cyclopentanecarboxylic acid (fencholic acid)				
	V	(374–537)	77.5	389		[1947STU]
$C_{10}H_{16}O_2$		(2,3,3-trimethyl-3-cyclopentadienyl)acetic acid				
	V	(370–529)	71.3	385	A	[1987STE/MAL, 1947STU]
$C_{10}H_{16}O_2$	[38734-05-3]	1,6-cyclodecanedione				
	FUS		29.58	372.2		[1972ALV/BOR]
$C_{10}H_{16}O_2$	[10453-89-1]	2,2-dimethyl-3-(2-methyl-1-propen-1-yl)cyclopropanecarboxylic acid (chrysanthemic acid)				
	FUS	(80–400)	14.51	390.7	AC	[2004XUE/WAN]
$C_{10}H_{16}O_3$	[61826-55-9]	3-acetyl-2,2-dimethylcyclobutaneacetic acid (*cis*-pinonic acid)				
	FUS		23.8	377.8	DSC	[2011BOO/MON]
	SUB	(298–318)	109	308	ME	[2011BOO/MON]
$C_{10}H_{16}O_4$	[183-97-1]	1,4-cyclohexanedione bis ethylene ketal				
	FUS		25.77	353.2		[1972ALV/BOR]
$C_{10}H_{16}O_4$	[3779-29-1]	1,1-cyclobutanedicarboxylic acid diethyl ester				
	V	(288–318)	65.8 ± 0.4		GS	[1998VER/KUM]
$C_{10}H_{16}O_4$	[124-83-4]	1,2,2-trimethyl-1,3-cyclopentanedicarboxylic acid (D-camphoric acid)				
	FUS		19.6	455.2	DSC	[2004STU/WIT]
$C_{10}H_{16}O_6$		lactic acid, *O*-ethoxycarbonyl, tetrafurfuryl ester				
	V	(390–523)	71.2	405	A	[1987STE/MAL]
$C_{10}H_{16}O_6$	[6279-86-3]	tris(carboethoxy)methane				
	V	(297–338)	79.1 ± 0.7	298	GS	[1992VER/BEC]
$C_{10}H_{16}O_6$	[890649-58-8]	1,2,4,5-tetroxane-3,6-dibutanal				
	SUB		153.6			[2007DAN/MAR]
$C_{10}H_{16}S$	[53402-10-1]	(1R)-(-)-thiocamphor				
	SUB	(262–282)	62.2 ± 0.9	272	ME	[1999ROU/JIM]
	SUB	(262–282)	61.7 ± 0.9	298	ME	[1999ROU/JIM]
	V		55.5	298	GC	[2002VAN/PAR]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{16}S$	[18794-77-9]	2-hexylthiophene				
	V		56.4 ± 1.3	298	C	[2007RIB/SAN]
$C_{10}H_{16}S$	[1693-86-3]	3-hexylthiophene				
	V		58.5 ± 1.3	298	C	[2007RIB/SAN]
$C_{10}H_{16}S_4$	[7000-79-5]	1,3,5,7-tetramethyl-2,4,6,8-tetrathiaadamantane				
	SUB		117.1 ± 4.1	298	TE	[1978HEA/HEF]
$C_{10}H_{17}ClO_6$	[856372-74-2]	lactic acid, *O*-ethoxycarbonyl, 2-(2-chloroethoxy)ethyl ester				
	SUB	(406–523)	83.8 (sub)	421	A	[1987STE/MAL]
$C_{10}H_{17}N$	[1197-53-1]	1-cyclohexylimino-2-butene				
	V		58.3			[1993OVC/SOB]
$C_{10}H_{17}N$	[768-94-5]	1-aminoadamantane				
	TRS	(5–370)	1.72	241.4	AC	
	TRS	(5–370)	5.31	284.6	AC	
	FUS		Not measured		AC	[2008BAZ/BLO]
	SUB	(291–343)	61.7 ± 0.6	298	ME, GS	[2008BAZ/BLO]
	V		59.9 ± 2.5	298	CGC	[2013GOB/RAT]
$C_{10}H_{17}NO$	[2792-42-9]	(*d*)-camphor oxime				
	TRS		14.48	384.5		
	FUS		2.1	393.3	DSC	[1984WEI/LEF]
	TRS		13.3	383		
	FUS		1.8	389	DSC	[1979MJO]
$C_{10}H_{17}NO$	[13559-66-5]	(*dl*)-camphor oxime				
	TRS		3.0	375		
	TRS		11.2	380		
	FUS		1.2	388	DSC	[1979MJO]
$C_{10}H_{17}NOS$	[59300-35-5]	carbamothioic acid, *N*-butyl-*N*-(2-propynyl), *S*-ethyl ester				
	SUB	(298–313)	82.1	305.5	ME	[1987STE/MAL, 1976DEP]
$C_{10}H_{17}NOS$	[59300-36-6]	carbamothioic acid, *N,N*-dipropyl *S*-(2-propynyl) ester				
	SUB	(298–313)	92.4	305.5	ME	[1987STE/MAL, 1976DEP]
$C_{10}H_{17}NOS$	[59300-34-4]	carbamothioic acid, *N*-2-methylpropyl-*N*-(2-propynyl), *S*-ethyl ester				
	SUB	(298–313)	74.0	305.5	ME	[1987STE/MAL, 1976DEP]
$C_{10}H_{17}NO_3$	[5338-12-5]	2-(2-cyanoethoxy)propionic acid, butyl ester				
	V	(328–382)	61.7	343	A	[1987STE/MAL]
$C_{10}H_{17}NO_5$	[897957-85-6]	(*l*)*N*-acetylaspartic acid, diethyl ester				
	V	(418–508)	76.0	433	A, EB	[1987STE/MAL, 1953MEL/VIO]
$C_{10}H_{17}N_5O$	[1610-18-0]	4,6-bis(isopropylamino)-2-methoxy-s-triazine (prometone)				
	FUS		21.18	363.5	DSC	[1991ACR, 1990DON/DRE]
	FUS		20.7		DSC	[1971GET/WAR]
$C_{10}H_{18}$	[176-63-6]	spiro[4.5]decane				
	V		54.8	298	C	[1975SUB/ZWO]
	V	(348–389)	44.0	363		[1965NAR]
$C_{10}H_{18}$	[16189-46-1]	*cis*-bicyclo[5.3.0]decane				
	V	(298–377)	49.8	313	A	[1987STE/MAL]
	V		46.9 ± 0.8	377	EB	[1970CHA/MCN]
	V		53.6 ± 1.2	298	EB	[1970CHA/MCN]
$C_{10}H_{18}$	[1636-39-1]	bicyclopentyl				
	TRS	(12–300)	0.26	171.5		
	FUS	(12–300)	13.4	237.8	AC	[2004CHI/STE]
	V	(383–509)	50.4 ± 0.1	298	EB	[2005CHI/STE]
	V	(384–509)	44.1 ± 0.1	400	EB	[2004CHI/STE]
	V	(384–509)	41.6 ± 0.1	440	EB	[2004CHI/STE]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(384–509)	38.9 ± 0.2	480	EB	[2004CHI/STE]
	V	(350–393)	43.2	365	A	[1987STE/MAL]
$C_{10}H_{18}$	[18968-24-6]	*cis*-carane				
	V	(362–445)	42.8	377	A	[1987STE/MAL]
	V		46.1 ± 0.7	298	EB	[1975VAR/DRU, 1976KOZ/ALE]
$C_{10}H_{18}$	[18968-23-5]	*trans*-carane				
	V		46.4 ± 0.7	298	EB	[1975VAR/DRU, 1976KOZ/ALE]
$C_{10}H_{18}$	[493-01-6]	*cis*-decahydronaphthalene				
	FUS	(13–344)	14.43	242.8	AC	[1996DOM/HEA, 1957MCC/FIN2]
	SUB		64.8	230	B	[1963BON]
	SUB		62.5	298	H	[1963BON, 1993CHI/HOS]
	V	(371–473)	45.5	386	A, GS	[1987STE/MAL, 1955CAM/ROS]
$C_{10}H_{18}$	[493-02-7]	*trans*-decahydronaphthalene				
	TRS	(12–344)	2.13	216.1		
	FUS	(12–344)	9.49	230.2	AC	[1996DOM/HEA, 1957MCC/FIN2]
	SUB		66.2	241	B	[1963BON]
	SUB		64.3	298	H	[1963BON, 1993CHI/HOS]
	V	(363–461)	44.2	378	A, GS	[1987STE/MAL, 1955CAM/ROS]
$C_{10}H_{18}$	[1942-46-7]	5-decyne				
	V	(477–487)	45.5	366	A	[1987STE/MAL]
$C_{10}H_{18}$	[473-55-2]	2,6,6-trimethylbicyclo[3.1.1]heptane (pinane)				
	V	(330–415)	44.1	350	BP	[2014WAN/HUA]
$C_{10}H_{18}$	[4755-33-3]	*cis*-2,6,6-trimethylbicyclo[3.1.1]heptane (*cis*-pinane)				
	V	(378–441)	41.8	393		[2003WAN/LI]
$C_{10}H_{18}$	[10281-53-5]	*trans*-2,6,6-trimethylbicyclo[3.1.1]heptane (*trans*-pinane)				
	V	(238–308)	46.1 ± 0.3	298	Static	[2014STE/FUL2]
$C_{10}H_{18}$	[2436-90-0]	3,7-dimethylocta-1,6-diene (dihydromyrcene)				
	V	(317–392)	44.3	332	BP	[2013WAN/GUO, 2014WAN/HUA]
$C_{10}H_{18}ClN_5$	[1912-25-0]	2-chloro-4-isopropylamino-6-diethylamino-1,3,5-triazine (ipazine)				
	FUS		21.3		DSC	[1971GET/WAR]
$C_{10}H_{18}Cl_4$	[205646-11-3]	1,2,9,10-tetrachlorodecane				
	V		75.4			[1998DRO/TOM]
$C_{10}H_{18}N_2$	[82410-68-2]	1-hexyl-2-methylimidazole				
	V	(313–363)	74.7 ± 0.4	298	GS	[2011EME/POR2]
$C_{10}H_{18}N_2S$	[1072064-73-3]	methyl-(1-thia-3-azaspiro[5.5]undec-2-en-2-yl)amine				
	FUS		14.1	340.6	DSC	[2013PER/BLO2]
	SUB		95.1 ± 1.0	298	GS	[2013PER/BLO2]
$C_{10}H_{18}N_6O_2$	[64124-17-0]	1-(sarcosino)-3,5-bis(dimethylamino)-s-triazine				
	FUS		29.83	431	DSC	[1989BRA/RYT]
$C_{10}H_{18}O$	[470-82-6]	1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane (1,8-cineole, 1,8-eucalyptol)				
	FUS		13.8	274.1	DSC	[2014STE/FUL2]
	V	(253–308)	48.7 ± 0.3	298	Static	[2014STE/FUL2]
[Note: Measurements in [2014STE/FUL2] included values for the subcooled liquid.]						
	V	(278–323)	46.1	298		[2011GIM/TOR]
	V	(264–303)	35.6	279	A	[1987STE/MAL]
$C_{10}H_{18}O$	[464-45-9]	(-)-borneol				
	TRS		1.3	216.1		
	TRS		3.1	348.2		
	FUS		7.4	480.8	DSC	[2015STE/DER]
	TRS		3.2	347.9		

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Compound / Transition	Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	FUS		7.3	480.2	DSC	[2014STE/FUL]
	SUB(I)	(348–363)	76.1 ± 0.6	298	Static	
	SUB(II)	(293–347)	75.6 ± 0.2	298	Static	
	SUB	(273–308)	74.7 ± 0.4	298	Static	[2014STE/FUL]
$C_{10}H_{18}O$	[6627-72-1]	(*dl*)-borneol				
	SUB	(350–475)	69.3	365	A	[1987STE/MAL]
	V	(477–487)	50.9	482	A	[1987STE/MAL]
$C_{10}H_{18}O$	[470-67-7]	1,4-cineole				
	V	(288–449)	46.1	303	A	[1987STE/MAL]
$C_{10}H_{18}O$	[470-82-6]	1,8-cineole				
	V	(327–420)	46.3	342		[2011TOR/GAR]
	V	(313–413)	49.0	298	GC	[2005HOS/GRY]
	V		53.2	298	GC	[2002VAN/PAR]
	V	(353–403)	41.1	378	TGA	[2002HAZ/DOL]
$C_{10}H_{18}O$	[619-01-2]	(*d*)-dihydrocarveol				
	V	(336–498)	58.2	351	A	[1987STE/MAL]
$C_{10}H_{18}O$	[2217-01-8]	(*dl*)-fenchyl alcohol				
	V	(318–474)	89.1	333	A	[1987STE/MAL]
$C_{10}H_{18}O$	[106-24-1]	geraniol				
	V	(273–368)	76.9 ± 0.2	298	Static	[2015STE/DER]
	V	(288–333)	62.9	303	A	[1987STE/MAL]
	V	(342–503)	59.1	357	A	[1987STE/MAL]
$C_{10}H_{18}O$	[7786-67-6]	(*d*)-isopulegol				
	V	(335–485)	49.8	350	A	[1987STE/MAL]
$C_{10}H_{18}O$	[126-90-9]	(*d*)-linalool				
	V	(273–323)	65.4	298		[1999DIA/GUE]
	V	(313–471)	52.4	328	A	[1987STE/MAL]
$C_{10}H_{18}O$	[78-70-6]	linalool				
	V	(285–353)	65.6 ± 0.1	298	Static	[2015ZAI/VER]
	V	(285–328)	66.2 ± 0.6	298	GS	[2015ZAI/VER]
	V	(352–468)	65.0	298		[2009CLA/GOM]
	V	(333–433)	55.3	298	GC	[2005HOS/GRY]
	V	(368–428)	51.4	399	TGA	[2002HAZ/DOL]
	V	(409–465)	50.3	424	EB	[2002DEN/LI]
$C_{10}H_{18}O$	[106-25-2]	*cis*-3,7-dimethyl-2,6-octadien-1-ol (nerol)				
	V	(334–499)	55.4	349	A	[1987STE/MAL]
$C_{10}H_{18}O$	[98-55-5]	(*dl*)-α-terpineol				
	SUB	(287–308)	80.1	297.5	A	[1987STE/MAL]
	V	(325–491)	54.0	340	A	[1987STE/MAL]
$C_{10}H_{18}O$	[7785-53-7]	(+)-α-terpineol				
	V		60.7	298	GC	[2002VAN/PAR]
$C_{10}H_{18}O$	[10482-56-1]	α-terpineol				
	FUS	(83–344)	15.78	308.5	AC	[2016MAR/SMI]
	SUB	(283–328)	80.3	305	ME	[1954SER/VOI, 1960JON]
$C_{10}H_{18}O$	[562-74-3]	terpinen-4-ol				
	V	(323–433)	55.5	298	GC	[2005HOS/GRY]
$C_{10}H_{18}O$	[124-76-5]	(*dl*)-isoborneol				
	SUB	(373–457)	41.1	388	A	[1987STE/MAL, 1936GRE]
$C_{10}H_{18}O$	[1196-00-5]	(1R,2R,3R,5S)-(-)-isopinocamheol				
	SUB	(283–313)	80.5 ± 1.1	298	GS	[2010WID/BRU]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{18}O$	[132203-71-5]	(+)-*trans*-myrtanol				
	V	(283–313)	73.0 ± 2.4	298	GS	[2010WID/BRU]
$C_{10}H_{18}O$	[854885-23-7]	1-(1-methylcyclohex-3-enyl)-1-propanol				
	V	(397–422)	53.6	409	A	[1987STE/MAL, 1955PIN/MAR]
$C_{10}H_{18}O$	[1502-06-3]	cyclodecanone				
	FUS		24.3	294.9	DSC	[1998GON/SZW]
	V	(353–423)	55.2	368	A	[1987STE/MAL, 1972WOL]
	V	(353–423)	58.4 ± 0.6	298	VP	[1972WOL]
$C_{10}H_{18}O$	[2890-65-5]	ethyl (1-methylcyclohexyl) ketone				
	V	(388–431)	45.2	403	A	[1987STE/MAL, 1955PIN/MAR]
$C_{10}H_{18}O$	[10458-14-7]	2-isopropyl-5-methylcyclohexanone (menthone)				
	V	(372–397)	50.1	385		[2002BAT]
	V	(350–483)	51.2	365	A	[1987STE/MAL]
$C_{10}H_{18}O$	[2385-77-5]	(*d*)-citronellal				
	V	(288–333)	54.9	303	A	[1987STE/MAL]
	V	(317–480)	53.2	332	A	[1987STE/MAL, 1947STU]
$C_{10}H_{18}O$	[69891-94-7]	(*Z*)-3-decenal				
	V	(323–343)	59.2	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[68676-85-7]	(*E*)-3-decenal				
	V	(323–343)	59.8	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[21662-09-9]	(*Z*)-4-decenal				
	V	(323–343)	59.3	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[65405-70-1]	(*E*)-4-decenal				
	V	(323–343)	60	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[21662-08-8]	(*Z*)-5-decenal				
	V	(323–343)	58.5	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[21662-11-3]	(*E*)-5-decenal				
	V	(323–343)	59.2	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[147159-48-6]	(*Z*)-6-decenal				
	V	(323–343)	59.3	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[147159-48-6]	(*E*)-6-decenal				
	V	(323–343)	59.5	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[21661-97-2]	(*Z*)-7-decenal				
	V	(323–343)	59.9	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[21662-10-2]	(*E*)-7-decenal				
	V	(323–343)	59.8	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[174155-46-5]	(*Z*)-8-decenal				
	V	(323–343)	60.5	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O$	[174155-47-6]	(*E*)-8-decenal				
	V	(323–343)	60.2	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
$C_{10}H_{18}O_2$	[502-47-6]	3,7-dimethyl-6-octenoic acid				
	V	(372–530)	68.7	387	A	[1987STE/MAL, 1947STU]
$C_{10}H_{18}O_2$	[702-75-0]	8,8-dimethyl-6,10-dioxaspiro[4.5]decane				
	V	(283–313)	53.7 ± 0.5	298	GS	[1998VER/PEN, 2002VER]
$C_{10}H_{18}O_2$	[7333-23-5]	2,2,6-dimethyl-3,5-heptanedione				
	V		57.7	298		[1976BUR/SHR]
$C_{10}H_{18}O_2$		L-decanolactone				
	V	(365–387)	57.7 ± 0.8	376	MM	[1991WIB/WAL]
	V	(365–387)	63.0 ± 1.5	298	MM	[1991WIB/WAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{18}O_2$	[706-14-9]	γ-decanolactone				
	V		75.0 ± 4.3	298	CGC	[2014KOZ/GOB]
	V	(298–365)	75.6 ± 0.3	298	GS	[2008EME/KOZ]
$C_{10}H_{18}O_2$	[705-86-2]	δ-decanolactone				
	V		75.5 ± 4.3	298	CGC	[2014KOZ/GOB]
	V	(309–358)	74.2 ± 0.3	298	GS	[2007EME/KOZ]
$C_{10}H_{18}O_2$	[2499-58-3]	heptyl acrylate				
	V	(359–481)	51.1	374	A	[1987STE/MAL]
$C_{10}H_{18}O_2$	[142-09-6]	hexyl methacrylate				
	V	(354–475)	50.5	369	A	[1987STE/MAL]
$C_{10}H_{18}O_2$	[512-77-6]	1-methyl-3-isopropylcyclopentane carboxylic acid				
	V	(374–538)	91.6	389	A	[1987STE/MAL]
$C_{10}H_{18}O_2$	[1551-44-6]	cyclohexyl butyrate				
	FUS	(5–320)	16.57	219.6	AC	[2001KOZ/BLO]
	V		60.0 ± 0.2	298	C	[2004PAU/ZAI]
	V		60.1 ± 0.2	298	C	[2003ZAI/VER]
	V	(273–310)	64.1 ± 0.6	298	ME	[2003ZAI/VER]
	V	(273–310)	59.8 ± 0.6	298	ME	[2003ZAI/VER]
	V	(278–313)	58.4 ± 0.7	298	GS	[2003ZAI/VER]
	V	(333–378)	60.0	298	CGC	[1999VER/HEI]
	V	(283–313)	60.0 ± 0.6	298	GS	[1996VER/BEC]
$C_{10}H_{18}O_2$	[1129-47-1]	cyclohexyl isobutyrate				
	V	(333–378)	57.7	298	CGC	[1999VER/HEI]
$C_{10}H_{18}O_2$		1-methylcyclohexyl propanoate				
	V	(333–378)	55.8	298	CGC	[1999VER/HEI]
$C_{10}H_{18}O_2$		3-methylcyclohexyl propanoate				
	V	(333–378)	58.3	298	CGC	[1999VER/HEI]
$C_{10}H_{18}O_2$		4-methylcyclohexyl propanoate				
	V	(333–378)	58.9	298	CGC	[1999VER/HEI]
$C_{10}H_{18}O_2$	[56922-72-6]	pentyl 3-methylbut-2-enoate				
	V		61.8 ± 0.4	298	GS	[2008EME/TOK]
$C_{10}H_{18}O_2$	[71697-84-2]	(-)-5-hydroxy-*a*, *a*,4-trimethyl-3-cyclohexene-1-methanol (*trans*-sobrerol)				
	FUS		34.69	423.6	DSC	[1999LI/ZEL, 1990BET/GIO]
$C_{10}H_{18}O_2$	[42370-41-2]	(±)-5-hydroxy-*a*, *a*,4-trimethyl-3-cyclohexene-1-methanol (*trans*-sobrerol)				
	FUS		34.39	404.9	DSC	[1999LI/ZEL, 1990BET/GIO]
$C_{10}H_{18}O_2$	[772-36-1]	(-)-5-hydroxy-*a*, *a*,4-trimethyl-3-cyclohexene-1-methanol (*cis*-sobrerol)				
	FUS		23.18	382.9	DSC	[1999LI/ZEL, 1990BET/GIO]
$C_{10}H_{18}O_2$	[54164-89-5]	(±)-5-hydroxy-*a*, *a*,4-trimethyl-3-cyclohexene-1-methanol (*cis*-sobrerol)				
	FUS		25.86	378.9	DSC	[1999LI/ZEL, 1990BET/GIO]
$C_{10}H_{18}O_2$	[16491-36-4]	*cis*-3-hexenyl butyrate				
	V		59.9 ± 1.7	298	CGC	[2015KOZ/GOB]
$C_{10}H_{18}O_3$	[103985-60-0]	3-hydroxy-2,3-dimethyl-4-hexenoic acid, ethyl ester				
	V	(362–387)	57.4	374	A	[1987STE/MAL]
$C_{10}H_{18}O_3$	[71172-75-3]	isopentyl levulinate				
	V	(403–521)	59.4	418	A	[1987STE/MAL]
	V		56.3	461		[1931SCH/COW]
$C_{10}H_{18}O_3$		1-ethylpropyl levulinate				
	V	(397–513)	58.6	412	A	[1987STE/MAL]
$C_{10}H_{18}O_3$		1-methylbutyl levulinate				
	V	(397–513)	57.2	412	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{18}O_3$		2-methylbutyl levulinate				
	V	(391–473)	56.5	406	A	[1987STE/MAL]
$C_{10}H_{18}O_3$	[20279-49-6]	pentyl levulinate				
	V	(354–527)	66.3	369	A	[1987STE/MAL, 1947STU]
	V		56.2	466		[1931SCH/COW]
$C_{10}H_{18}O_3$	[173729-59-4]	1-*tert*-butyl-4-methyl-2,6,7-trioxabicyclo[2.2.2]octane				
	FUS		16.4	375.2		[1995RAK/VER2]
$C_{10}H_{18}O_4$	[20473-77-2]	pentyl 2-acetoxypropionate				
	V	(312–501)	68.5	327	A	[1987STE/MAL, 1950REH/DIX]
$C_{10}H_{18}O_4$	[141-28-6]	diethyl adipate				
	V	(304–353)	70.8	329	GS	[2011LIP/KRA]
	V	(304–353)	74.0 ± 0.3	298	GS	[2011LIP/KRA]
	V	(347–513)	57.5	362	A	[1987STE/MAL]
	V	(351–524)	58.4	438		[1947STU, 2011LIP/KRA]
	V	(351–524)	73	298		[1947STU, 2011LIP/KRA]
$C_{10}H_{18}O_4$	[2050-60-4]	dibutyl oxalate				
	V	(291–358)	68.8	324	GS	[2011LIP/KRA]
	V	(291–358)	71.4 ± 0.3	298	GS	[2011LIP/KRA]
$C_{10}H_{18}O_4$	[2050-61-5]	diisobutyl oxalate				
	V	(336–503)	55.5	351	A	[1987STE/MAL, 1947STU]
$C_{10}H_{18}O_4$	[691-64-5]	di-*tert*-butyl oxalate				
	SUB	(292–339)	84.0	316	GS	[2011POR/KRA]
	SUB	(292–339)	84.8 ± 0.6	298	GS	[2011POR/KRA]
	V	(346–371)	63.5 ± 0.3	298	GS	[2011POR/KRA]
$C_{10}H_{18}O_4$	[925-15-5]	dipropyl succinate				
	V	(308–344)	67.9	326		[2011LIP/KRA]
	V	(308–344)	71.0 ± 0.3	298		[2011LIP/KRA]
	V	(350–524)	59.4	365	A	[1987STE/MAL]
	V	(350–524)	72.4	298	A	[1987STE/MAL, 2011LIP/KRA]
	V	(351–534)	58.4	443		[1947STU, 2011LIP/KRA]
	V	(351–534)	73.0	298		[1947STU, 2011LIP/KRA]
$C_{10}H_{18}O_4$	[924-88-9]	diisopropyl succinate				
	V	(304–333)	68.3 ± 0.3	298	GS	[2011POR/KRA]
	V	(357–497)	70.8 ± 0.4	298		[2011POR/KRA, 1992KAT]
$C_{10}H_{18}O_4$	[2049-70-9]	diethyl ethylmethylmalonate				
	V	(317–481)	53.2	332	A	[1987STE/MAL]
$C_{10}H_{18}O_4$	[1732-09-8]	dimethyl suberate				
	V	(293–352)	78.1 ± 0.2	298	GS	[2006VER/KOZ]
$C_{10}H_{18}O_4$	[105-72-6]	ethylene glycol dibutyrate				
	V	(297–327)	71.7 ± 1.3		GS	[2011MAS/KRA]
	V		73.2 ± 0.6	298	C	[1986NIL/WAD]
$C_{10}H_{18}O_4$	[7402-23-5]	ethylene glycol di(2-methylpropanoate)				
	V	(295–323)	66.6 ± 1.3		GS	[2011MAS/KRA]
$C_{10}H_{18}O_4$	[111-20-6]	sebacic acid				
	FUS		46.9	405.7	DSC	[2008VEN/BAY]
	FUS		45.3	405.6	DSC	[2008XIA/ZHA]
	TRS		0.4	370.3		
	FUS		46.6	403.9	DSC	[2005ROU/TEM]
	FUS		40.8	404.0	DSC	[1991ACR, 1974CIN/BER, 1996DOM/HEA]
	FUS		40.5			[1972CHA/HAG, 2008VEN/BAY]
	SUB	(353–385)	181 ± 8		TPD	[2007CAP/LOV]
	SUB	(302–320)	146.5		TPTD	[2005CHA/ZIE]

[Note: Values based on TPTD method are not consistent with values determined by other experimental methods.]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	SUB		165.3 ± 2.9			[1999RIB/MON, 1960DAV/THO]
	SUB	(375–403)	160.7 ± 2.5	389	ME	[1960DAV/THO, 1970COX/PIL, 1987STE/MAL]
	V	(424–503)	124.8	298	CGC	[2005ROU/TEM]
	V	(456–625)	85.9	471		[1947STU]
$C_{10}H_{18}O_5$		ethyl[1-(butoxycarbonyl)ethyl] carbonate				
	V	(324–473)	70.2	339	A	[1987STE/MAL]
$C_{10}H_{18}O_5$		2-lactoyloxypropionic acid, butyl ester				
	V	(336–407)	74.8	351	A	[1987STE/MAL, 1952REH/DIX]
$C_{10}H_{18}O_5$	[854415-86-4]	2-lactoyloxypropionic acid, *sec*-butyl ester				
	V	(329–399)	74.3	344	A	[1987STE/MAL, 1952REH/DIX]
$C_{10}H_{18}O_5$	[500790-23-8]	pentyl[1-(ethoxycarbonyl)methyl] carbonate				
	V	(383–503)	68.2	398	A	[1987STE/MAL]
$C_{10}H_{18}O_5$	[500787-65-5]	pentyl[1-(methoxycarbonyl)ethyl] carbonate				
	V	(360–524)	63.7	375	A	[1987STE/MAL, 1950REH/DIX2]
$C_{10}H_{18}O_6$	[62961-64-2]	(*d*)-diisopropyl tartrate				
	V	(376–548)	65.7	391	A	[1987STE/MAL, 1947STU]
$C_{10}H_{18}O_6$	[2217-14-3]	(*d*)-dipropyl tartrate				
	V	(388–576)	71.8	403	A	[1987STE/MAL, 1947STU]
$C_{10}H_{18}O_6S$	[7355-12-6]	diethyl 3,3′-sulfonyldipropionate				
	FUS		38.0	359.7	DSC	[1994WAN/KUO]
$C_{10}H_{19}ClNO_5$ P	[13171-21-6]	phosphamidon				
	V	(293–388)	90.1	308	A	[1987STE/MAL, 1999DYK/SVO]
$C_{10}H_{19}Cl_2N$	[4261-59-0]	*N,N*-bis(2-chloroethyl)cyclohexylamine				
	V	(273–333)	62.4	288	A, GS	[1987STE/MAL, 1948RED/CHA3, 1999DYK/SVO]
$C_{10}H_{19}N$	[7335-04-8]	*N*-cyclopentylpiperidine				
	V	(283–318)	54.9 ± 0.3	301	GS	[1998VER6]
	V	(283–318)	55.1 ± 0.3	298	GS	[1998VER6]
$C_{10}H_{19}N$	[1975-78-6]	decanenitrile (caprinitrile)				
	V	(295–326)	66.3 ± 0.4	298	GS	[2005EME/VER]
	V	(381–519)	58.0	396	A	[1987STE/MAL]
	V		66.8 ± 0.4	298	C	[1977STRI/SUN]
	V	(381–431)	57.8	396	EB	[1971MEY/REN]
	V	(431–518)	54.4	446	EB	[1971MEY/REN]
$C_{10}H_{19}NO_2$	[105-16-8]	*N,N*-diethylaminoethyl methacrylate				
	FUS		13.08	207.5	AC	[1985KAR/ABD]
$C_{10}H_{19}NO_3$	[4819-22-1]	L-*N*-acetylisoleucine, ethyl ester				
	V	(391–476)	69.1	406	A, EB	[1987STE/MAL, 1953MEL/VIO]
$C_{10}H_{19}NO_3$	[1114-55-2]	L-*N*-acetylleucine, ethyl ester				
	V	(396–476)	74.8	411	A, EB	[1987STE/MAL, 1953MEL/VIO]
$C_{10}H_{19}N_5O$	[1610-18-0]	2-methoxy-4,6-bis(isopropylamino)-1,3,5-triazine				
	SUB	(323–365)	92.2	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_{10}H_{19}N_5S$	[7287-19-6]	2-methylthio-4,6-bis(isopropylamino)-1,3,5-triazine (prometryne)				
	FUS		22.0		DSC	[1971GET/WAR]
	SUB	(323–393)	100	338	GS-GC	[1987STE/MAL, 1964FRI/STA]
$C_{10}H_{19}N_5S$	[5210-74-2]	2-(diethylamino)-4-(ethylamino)-6-(methylthio)-s-triazine (trietatryne)				
	FUS		37.3		DSC	[1971GET/WAR]
$C_{10}H_{19}N_5S$	[886-50-0]	2-methylmercapto-4-ethylamino-6-*tert*-butylamino-1,3,5-triazine (terbutryn)				
	FUS		21	376.1	DSC	[2007VEC/BRU]
	FUS		21.42	375.9	DSC	[1990DON/DRE]
	SUB		115 ± 7	298	DSC	[2007VEC/BRU]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	SUB		111 ± 4	298	TGA	[2007VEC/BRU]
	V		87 ± 5	467	DSC	[2007VEC/BRU]
	V		83.2 ± 1.0	452	TGA	[2007VEC/BRU]
$C_{10}H_{19}O_6PS_2$	[121-75-5]	(*dl*)-malathion				
	V	(283–419)	71.1	298	A	[1987STE/MAL]
$C_{10}H_{19}O_7PS$	[1634-78-2]	*O,O*-dimethyl-*S*-[1,2-bis(ethoxycarbonyl)ethyl]thiophosphate				
	V	(283–406)	93.4	298	A	[1987STE/MAL]
$C_{10}H_{20}$	[2158-55-6]	1,1,4-trimethylcycloheptane				
	V		45.5 ± 0.2	298	C	[1996VAR/PAS]
[Note: The text in [1996VAR/PAS] states 1,1,4-trimethylcycloheptane; however, the molecular structure of 1,1,4-trimethylcyclohexane is given in the paper.]						
$C_{10}H_{20}$	[293-96-9]	cyclodecane				
	FUS		18.95	282.7	DSC	[2005HUA/SIM]
	V	(404–489)	45.1	419	A, EB	[1987STE/MAL, 1976MEY/HOT]
	V	(343–386)	48.2	358	EB	[1987STE/MAL, 1976MEY/HOT]
$C_{10}H_{20}$	[1678-93-9]	butylcyclohexane				
	FUS		14.2	198	Quasi-AC	[2006MAN/CUT]
	FUS	(12–365)	14.16	198.4	AC	[1996DOM/HEA, 1965FIN/MES]
	V	(274–313)	47.4 ± 0.2	294	GS	[1995CHI/HES]
	V		47.0 ± 0.2	298		[1995CHI/HES]
	V		48.9 ± 0.5	298	GC	[1987AZA]
	V		49.4 ± 0.4	298	GCC	[1978FUC/PEA]
	V		49.4	298		[1975KUS/SAI]
	V		50.0	298		[1971WIL/ZWO]
	V		50.0	298		[1965FIN/MES]
	V	(367–457)	44.9	382	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{20}$	[7058-01-7]	*sec*-butylcyclohexane				
	FUS	(15–199)	8.07	178.4	AC	[2014RAM/OGI]
	V	(369–455)	44.1	384	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{20}$	[3178-22-1]	*tert*-butylcyclohexane				
	V		45.0 ± 0.1	328	C	[1981SVO/CHA]
	V		44.0 ± 0.1	343	C	[1981SVO/CHA]
	V		43.0 ± 0.1	358	C	[1981SVO/CHA]
	V		42.4 ± 0.1	368	C	[1981SVO/CHA]
	V	(355–446)	42.9	370	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{20}$	[1678-98-4]	isobutylcyclohexane				
	V		47.5	298		[1975KUS/SAI]
	V	(355–446)	43.5	370	A	[1987STE/MAL, 1949FOR/NOR]
$C_{10}H_{20}$	[99-82-1]	1-isopropyl-4-methylcyclohexane				
	V	(382–443)	43.6	297	A	[1987STE/MAL]
$C_{10}H_{20}$	[3741-00-2]	*n*-pentylcyclopentane				
	V		51.0	298		[1971WIL/ZWO]
$C_{10}H_{20}$	[872-05-9]	1-decene				
	TRS	(12–356)	7.95	198.3		
	FUS	(12–356)	13.81	206.9	C	[1996DOM/HEA, 1957MCC/FIN]
	V	(383–445)	43.8	398	A	[1987STE/MAL]
	V		50.4 ± 0.2	298	C	[1977MAN/SEL]
	V		50.5	298		[1971WIL/ZWO]
	V	(360–445)	45.1	375		[1950FOR/CAM]
$C_{10}H_{20}$	[20348-51-0]	*cis*-2-decene				
	V	(401–447)	43.6	416	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[20063-97-2]	*trans*-2-decene				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(401–447)	43.7	416	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[19398-86-8]	*cis*-3-decene				
	V	(398–444)	43.1	413	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[19150-21-1]	*trans*-3-decene				
	V	(398–445)	43.4	413	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[19398-88-0]	*cis*-4-decene				
	V	(397–444)	43.0	412	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[19398-89-1]	*trans*-4-decene				
	V	(398–444)	43.2	413	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[7433-78-5]	*cis*-5-decene				
	V	(397–443)	42.9	412	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[7433-56-9]	*trans*-5-decene				
	V	(398–444)	43.2	413	A, EB	[1987STE/MAL, 1983ELV/KUU]
$C_{10}H_{20}$	[4485-13-6]	4-propyl-3-heptene				
	V	(333–371)	43.7	348	A, MG	[1987STE/MAL, 1955SCH/WHI]
$C_{10}H_{20}$	[692-48-8]	*trans*-2,2,5,5-tetramethyl-3-hexene				
	V		42.0 ± 0.2	298	GCC	[1979FUC/PEA]
$C_{10}H_{20}$	[22808-06-6]	2,2,5,5-tetramethylhex-3-ene				
	TRS		1.21	235.8		
	TRS		4.33	243.5		
	FUS		10.25	268.9	DSC	[1980BYS]
$C_{10}H_{20}Br_2$	[59104-80-2]	1,1-dibromodecane				
	V	(442–610)	62.2	457	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_{10}H_{20}Br_2$	[28467-71-2]	1,2-dibromodecane				
	V	(368–524)	67.0	383	A	[1987STE/MAL, 1947STU, 1970DYK/VAN]
$C_{10}H_{20}Cl_2$	[3162-62-7]	1,1-dichlorodecane				
	V	(415–577)	56.9	430	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN]
$C_{10}H_{20}Cl_2$	[2162-98-3]	1,10-dichlorodecane				
	V	(441–520)	61.1	456		[1999DYK/SVO]
	V		67.3			[1998DRO/TOM]
	V	(440–540)	73.1	298		[1991BAS/SVO]
$C_{10}H_{20}Cl_2N_3O_4P_3$	[131471-44-8]	2,2,4,4-bis(2′,2′-dimethylpropane-1′,3′-dioxy)-6,6-dichlorocyclotriphosphazene				
	FUS (α)		32.7	484.1	DSC	[2011HAC/MON]
	FUS (β)		29.4	484.6	DSC	[2011HAC/MON]
$C_{10}H_{20}F_2$	[62127-43-9]	1,1-difluorodecane				
	V	(364–504)	50.2	379	A, EST	[1987STE/MAL, 1956MAN, 1970DYK/VAN, 1999DYK/SVO]
$C_{10}H_{20}N_2$	[53657-09-3]	1-heptylimidazole				
	V	(299–366)	76.8 ± 0.3	298	GS	[2011EME/POR]
$C_{10}H_{20}N_2OS$	[398995-30-7]	*N,N*-diethyl-*N*′-isovaleroylthiourea				
	SUB	363	121.5 ± 3.2	298	C	[2001RIB/RIB]
$C_{10}H_{20}N_2OS$	[398995-31-8]	*N,N*-diethyl-*N*′-pivaloylthiourea				
	SUB	366	114.9 ± 2.7	298	C	[2001RIB/RIB]
$C_{10}H_{20}N_2O_2$	[14288-05-2]	tetraethyloxamide				
	FUS		17.0	310.2	DSC	[2003CLO/JAN]
	V		63	464	TGA, DSC	[2003CLO/JAN]
$C_{10}H_{20}N_2O_2$	[1740-54-1]	sebacamide				
	FUS		68.7	484.3	DSC	[2006BAD/DEL]
$C_{10}H_{20}N_6$	[16268-73-8]	1-(ethylmethylamino)-3,5-bis(dimethylamino)-s-triazine				
	FUS		21.3	384	DSC	[1991ACR, 1989BRA/RYT]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{20}N_6O$	[52298-71-2]	1-(2-hydroxyethylmethylamino)-3,5-bis(dimethylamino)-s-triazine				
	FUS		17.32	373.3	DSC	[1989BRA/RYT]
$C_{10}H_{20}O$	[106-22-9]	3,7-dimethyl-6-octene-1-ol (citronellol)				
	SUB	(283–333)	66.1	308		[1954SER/VOI, 1960JON]
	V	(343–453)	63.5	298	GC	[2005HOS/GRY]
	V	(293–333)	72.6	308	A	[1987STE/MAL]
	V	(373–500)	65.9	388	A	[1987STE/MAL]
$C_{10}H_{20}O$	[7540-51-4]	(-)-β-citronellol				
	V	(274–363)	77.3 ± 0.2	298	Static	[2015STE/DER]
$C_{10}H_{20}O$	[26902-25-0]	bis(3-methyl-2-butenyl) ether				
	V	(383–413)	47.8	398	EB	[1989WAN/YIN]
$C_{10}H_{20}O$	[103-44-6]	(2-ethylhexyl) vinyl ether				
	V	(330–451)	44.7	345	A	[1987STE/MAL]
$C_{10}H_{20}O$	[5445-30-7]	1-butylcyclohexanol				
	V	(362–481)	55.7	377	A	[1987STE/MAL, 1947WIL/EDW]
$C_{10}H_{20}O$	[18479-58-8]	2,6-dimethyloct-7-en-2-ol (dihydromyrcenol)				
	V	(317–391)	60.2	361	BP	[2013WAN/GUO, 2014WAN/HUA]
$C_{10}H_{20}O$	[2216-51-5]	(*l*)-menthol				
	FUS		12.83	316.7	DSC	[2016OKU/PAD]
	FUS		14.1	316.1	DSC	[2010COR/NEG]
	FUS		11.88	316.2	DTA	[1981CHI/GAR]
	SUB	(279–299)	95.8 ± 4.8	289	HSA	[1981CHI/GAR]
	V	(372–488)	59.1	387	A	[1987STE/MAL]
	V	(329–485)	58.2	344		[1947STU]
$C_{10}H_{20}O$	[89-78-1]	(*dl*)-menthol				
	FUS		10.25	301.2	DTA	[1981CHI/GAR]
	SUB	(279–299)	78.6 ± 4	289	HSA	[1981CHI/GAR]
$C_{10}H_{20}O$	[2216-51-5]	(-)-menthol				
	V	(323–433)	56.6	298	GC	[2005HOS/GRY]
$C_{10}H_{20}O$	[1502-05-2]	cyclodecanol				
	SUB	(287–292)	100.5 ± 0.5	288	TCM	[1955ENG]
$C_{10}H_{20}O$	[854708-25-1]	1-(1-methylcyclohexyl)-1-propanol				
	V	(396–420)	55.4	408	A	[1987STE/MAL, 1955PIN/MAR]
$C_{10}H_{20}O$	[27331-02-8]	2-(1-methylcyclohexyl)-2-propanol				
	V	(393–418)	53.0	405	A	[1987STE/MAL, 1955PIN/MAR]
$C_{10}H_{20}O$	[10340-22-4]	(*Z*)-3-decen-1-ol				
	V	(323–363)	78.7	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[10339-60-3]	(*E*)-3-decen-1-ol				
	V	(323–363)	78.8	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[57074-37-0]	(*Z*)-4-decen-1-ol				
	V	(323–363)	79.6	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[10339-62-5]	(*E*)-4-decen-1-ol				
	V	(323–363)	80.3	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[51652-47-2]	(*Z*)-5-decen-1-ol				
	V	(323–363)	80.3	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[56578-18-8]	(*E*)-5-decen-1-ol				
	V	(323–363)	80.6	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[68760-59-8]	(*Z*)-6-decen-1-ol				
	V	(323–363)	80.3	298	CGC	[2000OVA/KOU, 1994KOU/HOS]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{20}O$	[38421-92-0]	(*E*)-6-decen-1-ol				
	V	(323–363)	80.6	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[16504-66-8]	(*Z*)-7-decen-1-ol				
	V	(323–363)	80.8	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[52957-12-7]	(*E*)-7-decen-1-ol				
	V	(323–363)	81.1	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[83799-67-1]	(*Z*)-8-decen-1-ol				
	V	(323–363)	81.6	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[83799-68-2]	(*E*)-8-decen-1-ol				
	V	(323–363)	81.5	298	CGC	[2000OVA/KOU, 1994KOU/HOS]
$C_{10}H_{20}O$	[693-54-9]	2-decanone				
	V	(317–484)	51.7	332	A	[1987STE/MAL, 1947STU]
	V	(357–560)	55.1	372	A	[1987STE/MAL]
	V		60.9 ± 0.5	298	GCC	[1979SAL/PEA]
	V	(358–568)	44.6	487		[1975AMB/ELL]
$C_{10}H_{20}O$	[868-91-7]	2,2,5,5-tetramethyl-3-hexanone				
	V		48.8 ± 0.2	298	C	[1970SEL2]
$C_{10}H_{20}O$	[112-31-2]	decanal				
	FUS	(50–350)	30.6	268.2	AC	[1980DYA/VAS]
	V	(280–316)	59.5 ± 0.4	298	GS	[2003VER/KRA2]
	V	(308–353)	60.5	298	CGC	[1996KOU/HOS, 2000OVA/KOU]
	V	(288–333)	57.3	303	A	[1987STE/MAL]
	V	(293–358)	57.3	308	A	[1987STE/MAL]
	V		60.4 ± 0.3	298		[1981DYA/KOR]
	V	(324–482)	56.3	339		[1987STE/MAL, 1947STU]
$C_{10}H_{20}O_2$	[4359-57-3]	2-heptyl-1,3-dioxolane				
	V	(318–453)	62.0	333	A	[1987STE/MAL, 1977VOI/SHC]
$C_{10}H_{20}O_2$	[4359-47-1]	2-(1-ethylpentyl)-1,3-dioxolane				
	V	(333–453)	55.3	348	A	[1987STE/MAL, 1977VOI/SHC]
$C_{10}H_{20}O_2$	[2244-85-1]	4-hexyl-1,3-dioxane				
	V	(318–453)	56.9	333	A	[1987STE/MAL, 1977VOI/SHC]
$C_{10}H_{20}O_2$	[61827-60-9]	3-pentyl-4-hydroxytetrahydropyran				
	V	(383–453)	72.6	398	A	[1987STE/MAL, 1977VOI/SHC]
$C_{10}H_{20}O_2$	[859773-58-3]	2-butoxy-3-hexanone				
	V	(333–418)	39.5	348	A, I	[1987STE/MAL, 1933HEN/MUR]
$C_{10}H_{20}O_2$	[107-75-5]	hydroxycitronellal				
	V	(283–333)	75.3	298	A, ME	[1987STE/MAL, 1955SER/VOI]
$C_{10}H_{20}O_2$	[112-14-1]	octyl acetate				
	V	(274–309)	60.7 ± 0.4	298	GS	[2006KRA/VER]
	V		61.7	298	GC	[1997DEF/CAR]
	V	(334–417)	54.9	349	A	[1987STE/MAL]
	V	(345–472)	47.8	360	A	[1987STE/MAL]
$C_{10}H_{20}O_2$	[106-32-1]	ethyl octanoate				
	V	(284–462)	55.0 ± 0.6	373	Static	[2011BEN/KHI]
	V	(284–462)	62.0 ± 0.6	298	Static	[2011BEN/KHI]
	V	(382–412)	52.5 ± 0.2	397	EB	[1991WIB/WAL]
	V	(382–412)	59.5 ± 1.3	298	EB	[1991WIB/WAL]
	V	(330–480)	53.2	345	A	[1987STE/MAL]
$C_{10}H_{20}O_2$	[103-09-3]	2-ethylhexyl acetate				
	V	(333–472)	50.1	348	A	[1987STE/MAL]
$C_{10}H_{20}O_2$	[659-70-1]	isopentyl isovalerate				
	V	(341–479)	46.4	356	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(300–467)	47.2	315		[1947STU]
$C_{10}H_{20}O_2$	[5340-26-1]	neopentyl pivalate				
	V	(280–310)	49.1 ± 0.5	295	GS	[1999VER/HEI]
	V	(280–310)	48.9 ± 0.5	298	GS	[1999VER/HEI]
$C_{10}H_{20}O_2$	[89397-96-6]	2,2-dimethylpropanoic acid, 1,1-dimethylpropyl ester				
	V	(333–378)	48.0	298	CGC	[1999VER/HEI]
$C_{10}H_{20}O_2$	[245658-27-9]	2-methylpropanoic acid, 1,1-dimethylbutyl ester				
	V	(333–378)	51.4	298	CGC	[1999VER/HEI]
$C_{10}H_{20}O_2$	[245658-32-6]	2-methylpropanoic acid, 1,1,2-trimethylpropyl ester				
	V	(333–378)	51.7	298	CGC	[1999VER/HEI]
$C_{10}H_{20}O_2$		butanoic acid, 1,1,2-trimethylpropyl ester				
	V	(333–378)	53.8	298	CGC	[1999VER/HEI]
$C_{10}H_{20}O_2$	[245658-37-1]	2,4-dimethyl-2-pentanol, propanoate				
	V	(333–378)	51.7	298	CGC	[1999VER/HEI]
$C_{10}H_{20}O_2$	[1731-84-6]	methyl nonanoate				
	V		57.4	350		[2002VAN/VAN]
	V		56.7 ± 0.3	364		[2002VAN/VAN]
	V		61.6 ± 0.4	298		[2002VAN/VAN]
	V		57.7 ± 0.7	298	GC	[1987AZA]
	V		62.0 ± 0.5	298	GCC	[1980FUC/PEA]
	V		62.0 ± 0.4	298	C	[1977MAN/SEL]
	V	(364–439)	55.6	379	A, EST	[1987STE/MAL, 1963ROS/SCH]
$C_{10}H_{20}O_2$	[334-48-5]	decanoic acid (capric acid)				
	FUS		27.23	305.5	DSC	[2015CAR/CON]
	FUS		29.6	305.7	DSC	[2015RAM/MAR]
	FUS		27.2	304.3	DSC	[2014WEI/HAN]
	FUS		28.0	305.3	DSC	[2014CAR/CAS]
	FUS		24.6	303.4	DSC	[2013HUA/LU]
	FUS		33.6	305.2	DSC	[2011EGO/MAR]
	FUS		28.2	304.4	DSC	[2009COS/SAR]
	FUS		28.3	303.8	DSC	[2007MOR/COR]
	FUS		28.6	305.0	DSC	[2004INO/HIS2]
	FUS		U 22.2	304.2	DSC	[1992BAB/HWA2]
	FUS	(90–345)	27.82	304.5	AC	[1996DOM/HEA, 1982SCH/VAN]
	FUS		27.99	304.4		[1996DOM/HEA, 1924GAR/RAN]
	FUS		29.22	300.1		[1996DOM/HEA, 1889EYK]
	SUB		129.6 ± 5	298	TPD	[2008CAP/LOV]
	SUB	(293–303)	118.8 ± 2.2	298	ME	[1968BAC/NOV, 1970COX/PIL, 1987STE/MAL]
	SUB	(290–301)	117.1 ± 1.7	295	ME	[1961DAV/MAL]
	V	(398–543)	76.4	413	A	[1987STE/MAL]
	V	(305–323)	88.6	314	ME, TE	[1982DEK/SCH]
	V	(416–450)	75.4	433	EB	[1953HOV/JOH]
	V		71.4	418	I	[1943CRA]
$C_{10}H_{20}O_3$	[869190-73-8]	propyl 3-butoxypropionate				
	V	(373–473)	44.2	388	A, I	[1987STE/MAL, 1933HEN/MUR]
$C_{10}H_{20}O_3$	[14144-36-6]	pentyl 3-ethoxypropionate				
	V	(374–498)	54.1	389	A	[1987STE/MAL, 1948DIX/REH]
$C_{10}H_{20}O_3$	[7419-97-8]	methyl 3-hexyloxypropionate				
	V	(373–473)	55.1	388	A	[1987STE/MAL]
$C_{10}H_{20}O_3$	[14156-10-6]	peroxydecanoic acid				
	SUB	(293–303)	117.1 ± 0.8	298	ME	[1980SWA/KWA]
$C_{10}H_{20}O_4$	[124-17-4]	diethylene glycol monobutyl ether acetate				
	V	(393–520)	57.7	408	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{20}O_4$	[33785-99-8]	3,3,6,6-tetraethyl-1,2,4,5-tetraoxacyclohexane				
	V	(403–473)	50.1	298	CGC	[2007CAN/EYL]
$C_{10}H_{20}O_5$	[33100-27-5]	1,4,7,10,13-pentaoxacyclopentadecane (15-crown-5)				
	V		75.7 ± 1.7	298	CGC	[2000NIC/ORF]
	V		79.6 ± 0.3	298	C	[1982BYS/MAN]
$C_{10}H_{20}S_4$	[24194-61-4]	1,4,8,11-tetrathiacyclotetradecane				
	TRS		2.7	345.2		
	FUS		33.0	393.2	DSC	[2002ROC/GRI]
$C_{10}H_{20}S_5$	[36338-04-2]	1,4,7,10,13-pentathiacyclopentadecane				
	TRS		11.0	318.2		
	TRS		4.2	340.2		
	FUS		17.0	391.2	DSC	[2002ROC/GRI]
$C_{10}H_{21}Br$	[112-29-8]	1-bromodecane				
	V	(391–545)	56.1	406		[1999DYK/SVO]
	V	(383–570)	56.6	398	A, EST	[1987STE/MAL, 1961LI/ROS]
$C_{10}H_{21}Cl$	[1002-69-3]	1-chlorodecane				
	V		64.0 ± 0.2	298	GS	[2001PUR/CHI]
	V	(379–530)	54.4	394		[1999DYK/SVO]
	V	(359–499)	56.2	374	A, DTA	[1987STE/MAL, 1969KEM/KRE]
$C_{10}H_{21}F$	[334-56-5]	1-fluorodecane				
	V	(342–503)	50.4	357	A	[1987STE/MAL, 1961LI/ROS]
$C_{10}H_{21}I$	[2050-77-3]	1-iododecane				
	V	(397–598)	69.8	298	A, EST	[1987STE/MAL, 1961LI/ROS, 2006BOL/NER]
	V	(407–571)	57.4	422		[1999DYK/SVO]
	V	(397–598)	58.1	412	A, EST	[1987STE/MAL, 1961LI/ROS]
$C_{10}H_{21}N$	[101-40-6]	*N*,α-dimethylcyclohexanethylamine				
	V	(270–300)	50.2	285	A	[1987STE/MAL]
$C_{10}H_{21}NO$	[6282-97-9]	*N,N*-diethylhexanamide				
	V	(373–443)	47.7	388	A	[1987STE/MAL]
$C_{10}H_{21}NO$	[2319-29-1]	decanamide				
	TRS		1.05	218.7		
	TRS		18.8	366.6		
	FUS		15.1	370.6	DSC	[2008ABA/BAD]
	SUB	(353–370)	125.9 ± 1.3	361.5	ME	[1959DAV/JON2]
$C_{10}H_{21}NO_2$		ethyl 2-(*N,N*-diethylamino)butanoate				
	V	(283–313)	57.3 ± 0.2	298	GS	[1996VER/ZUF]
$C_{10}H_{21}N_3$	[62103-13-3]	1-decylazide				
	V	(299–344)	67.8 ± 0.4	298	GS	[2014EME/ALG]
$C_{10}H_{22}$	[124-18-5]	decane				
	FUS		26.48	243.5	DSC	[2005HUA/SIM]
	FUS		27.6	243.0	DSC	[2004MAR/KAI]
	FUS		28.7	243.5		[1996DOM/HEA, 1954FIN/GRO2]
	FUS		28.78	243.1	C	[1996DOM/HEA, 1931HUF/PAR]
	SUB		80.3	298	B	[1980SWA/KWA]
	SUB		84.8	243	B	[1963BON]
	SUB		82.4	298	H	[1963BON, 1993CHI/HOS]
	V	(324–402)	48.3	339	GC	[2007MOK/RAZ]
	V	(337–376)	46.6	352		[2002BAT]
	V		51.1 ± 3.9	298	CGC	[2000NIC/ORF]
	V		51.5	299	C	[1996VIT/CHA]
	V		50.5	314	C	[1996VIT/CHA]
	V		50.1	324	C	[1996VIT/CHA]
	V		49.2	334	C	[1996VIT/CHA]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(403–453)	50.9	298	CGC	[1995CHI/HOS]
	V	(423–473)	51.5	298	CGC	[1995CHI/HOS]
	V		51.4	298		[1994RUZ/MAJ]
	V	(409–584)	42.5	424		[1992LEE/DEM]
	V	(268–490)	48.1	340	EB, IPM	[1989CHI/NGU]
	V	(268–490)	51.4	298	EB, IPM	[1989CHI/NGU]
	V	(252–383)	53.8	267	A	[1987STE/MAL]
	V	(447–526)	41.7	462	A	[1987STE/MAL]
	V	(524–617)	38.6	539	A	[1987STE/MAL]
	V	(298–347)	50.3	313	GS	[1986ALL/JOS]
	V	(308–351)	49.8 ± 1.7			[1984BEC/RUC]
	V		51.4 ± 0.1	298	C	[1982FUR/SAK]
	V	(243–310)	55.9	258		[1973CAR/KOB]
	V		51.4	298		[1971WIL/ZWO]
	V	(373–443)	45.3	388		[1987STE/MAL, 1970VAR/BEL]
	V		50.2 ± 0.4	298	C	[1963MOR/SUN]
	V		51.4	298	C	[1947OSB/GIN]
	V	(368–440)	45.5	383	MM	[1945WIL/TAY]
$C_{10}H_{22}$	[871-83-0]	2-methylnonane				
	FUS		17.49	198.8		[1996DOM/HEA, 1941PAR/WES]
	V	(324–441)	46.4 ± 0.2	339	A	[1987STE/MAL]
	V		47.3 ± 0.2	328	C	[1984MAJ/SVO3]
	V		46.2 ± 0.2	343	C	[1984MAJ/SVO3]
	V		45.0 ± 0.2	358	C	[1984MAJ/SVO3]
	V		51.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[5911-04-6]	3-methylnonane				
	FUS		18.7	188.5		[1996DOM/HEA, 1941PAR/WES]
	V		47.3 ± 0.2	328	C	[1984MAJ/SVO3]
	V		46.2 ± 0.2	343	C	[1984MAJ/SVO3]
	V		45.1 ± 0.2	358	C	[1984MAJ/SVO3]
	V		50.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[17301-94-9]	4-methylnonane				
	FUS		15.19	174.7		[1996DOM/HEA, 1941PAR/WES]
	V		49.5	298		[1961LAB/GRE]
$C_{10}H_{22}$	[15869-85-9]	5-methylnonane				
	FUS		16.65	186.7		[1996DOM/HEA, 1941PAR/WES]
	V		47.0 ± 0.2	328	C	[1984MAJ/SVO3]
	V		45.9 ± 0.2	343	C	[1984MAJ/SVO3]
	V		44.6 ± 0.2	358	C	[1984MAJ/SVO3]
	V		49.8	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[5881-17-4]	3-ethyloctane				
	V		49.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-86-0]	4-ethyloctane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[3178-29-8]	4-propylheptane				
	V		48.5	298		[1971WIL/ZWO]
	V	(331–430)	44.1	346	A, MG	[1987STE/MAL, 1955SCH/WHI]
$C_{10}H_{22}$	[52896-87-4]	4-isopropylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-87-1]	2,2-dimethyloctane				
	V		49.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[7146-60-3]	2,3-dimethyloctane				
	V		48.1	298		[1971WIL/ZWO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{22}$	[4032-94-4]	2,4-dimethyloctane				
	V		44.9 ± 0.2	328	C	[1984MAJ/SVO2]
	V		43.6 ± 0.2	343	C	[1984MAJ/SVO2]
	V		42.4 ± 0.2	358	C	[1984MAJ/SVO2]
	V		48.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-89-3]	2,5-dimethyloctane				
	V		49.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[2051-30-1]	2,6-dimethyloctane				
	V		49.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[1072-16-8]	2,7-dimethyloctane				
	V		47.7	298		[1971WIL/ZWO]
	V	(279–433)	45.2	294	A	[1987STE/MAL, 1947STU]
$C_{10}H_{22}$	[4110-44-5]	3,3-dimethyloctane				
	V		48.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-92-8]	3,4-dimethyloctane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-93-9]	3,5-dimethyloctane				
	V		48.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-94-0]	3,6-dimethyloctane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-95-1]	4,4-dimethyloctane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[15869-96-2]	4,5-dimethyloctane				
	V		48.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[14676-29-0]	2-methyl-3-ethylheptane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-88-5]	2-methyl-4-ethylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[13475-78-0]	2-methyl-5-ethylheptane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[17302-01-1]	3-methyl-3-ethylheptane				
	V		47.7	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-89-6]	3-methyl-4-ethylheptane				
	V		47.7	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-90-9]	3-methyl-5-ethylheptane				
	V		47.7	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-91-0]	4-methyl-3-ethylheptane				
	V		48.1	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[17302-04-4]	4-methyl-4-ethylheptane				
	V		47.2	298		[1961LAB/GRE]
$C_{10}H_{22}$	[52896-92-1]	2,2,3-trimethylheptane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[14720-74-2]	2,2,4-trimethylheptane				
	V		45.6	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20291-95-6]	2,2,5-trimethylheptane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[1190-83-6]	2,2,6-trimethylheptane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-93-2]	2,3,3-trimethylheptane				
	V		46.9	298		[1971WIL/ZWO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{22}$	[52896-95-4]	2,3,4-trimethylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20278-85-7]	2,3,5-trimethylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[4032-93-3]	2,3,6-trimethylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[4032-92-2]	2,4,4-trimethylheptane				
	V		45.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20278-84-6]	2,4,5-trimethylheptane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[2613-61-8]	2,4,6-trimethylheptane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[1189-99-7]	2,5,5-trimethylheptane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20278-88-0]	3,3,4-trimethylheptane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[7154-80-5]	3,3,5-trimethylheptane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20278-88-0]	3,4,4-trimethylheptane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20278-89-1]	3,4,5-trimethylheptane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[62016-13-1]	2-methyl-3-isopropylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[17302-02-2]	3,3-diethylhexane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[19398-77-7]	3,4-diethylhexane				
	V		47.7	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[20291-91-2]	2,2-dimethyl-3-ethylhexane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52896-99-8]	2,2-dimethyl-4-ethylhexane				
	V		45.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-00-4]	2,3-dimethyl-3-ethylhexane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-01-5]	2,3-dimethyl-4-ethylhexane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[7220-26-0]	2,4-dimethyl-3-ethylhexane				
	V		46.9	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-03-7]	2,4-dimethyl-4-ethylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-04-8]	2,5-dimethyl-3-ethylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-05-9]	3,3-dimethyl-4-ethylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-06-0]	3,4-dimethyl-3-ethylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[13475-81-5]	2,2,3,3-tetramethylhexane				
	V		45.2	298		[1971WIL/ZWO]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{22}$	[52897-08-2]	2,2,3,4-tetramethylhexane				
	V		45.6	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-09-3]	2,2,3,5-tetramethylhexane				
	V		45.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[51750-65-3]	2,2,4,4-tetramethylhexane				
	V		43.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[16747-42-5]	2,2,4,5-tetramethylhexane				
	V		44.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[1071-81-4]	2,2,5,5-tetramethylhexane				
	V		43.5	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-10-6]	2,3,3,4-tetramethylhexane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-11-7]	2,3,3,5-tetramethylhexane				
	V		45.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-12-8]	2,3,4,4-tetramethylhexane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-15-1]	2,3,4,5-tetramethylhexane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[5171-84-6]	3,3,4,4-tetramethylhexane				
	V		42.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[13475-79-1]	2,4-dimethyl-3-isopropylpentane				
	V		45.6	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-16-2]	2-methyl-3,3-diethylpentane				
	V		47.3	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-17-3]	2,2,3-trimethyl-3-ethylpentane				
	V		46.0	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-18-4]	2,2,4-trimethyl-3-ethylpentane				
	V		44.8	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[52897-19-5]	2,3,4-trimethyl-3-ethylpentane				
	V		46.4	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[16747-44-7]	2,2,3,3,4-pentamethylpentane				
	V		45.2	298		[1971WIL/ZWO]
$C_{10}H_{22}$	[16747-45-8]	2,2,3,4,4-pentamethylpentane				
	V		43.5	298		[1971WIL/ZWO]
$C_{10}H_{22}N_2O$	[28141-55-1]	1-nonyl urea				
	FUS		38.9	380.3	DSC	[2005HAS/TAJ]
$C_{10}H_{22}O$	[69775-79-7]	hexyl *tert*-butyl ether				
	V		53.2	298	CGC	[UR/VER, 2002VER, 2003VER/KRA]
$C_{10}H_{22}O$		pentyl *tert*-amyl ether				
	V		53.5	298	CGC	[UR/VER, 2002VER, 2003VER/KRA]
$C_{10}H_{22}O$	[187103-12-4]	ethyl *tert*-octyl ether				
	V		45.3 ± 0.3	298	GS	[UR/VER, 2002VER, 2003VER/KRA]
$C_{10}H_{22}O$	[693-65-2]	dipentyl ether				
	V	(373–460)	46.2	388	A	[1987STE/MAL]
	V	(423–480)	45.6	451		[1968LAP/NIS]
$C_{10}H_{22}O$	[54459-71-1]	butyl hexyl ether				
	V		53.2 ± 0.1	298	C	[1985KUS]
$C_{10}H_{22}O$	[544-01-4]	diisopentyl ether				

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V	(353–393)	51.4	298	CGC	[1995CHI/HOS]
	V	(417–470)	41.4	443		[1968LAP/NIS]
	V	(291–447)	47.6	306	A	[1987STE/MAL, 1947STU]
$C_{10}H_{22}O$	[112-30-1]	1-decanol				
	FUS		29.66	280.1	DSC	[2015CAR/CON]
	FUS		28.8	280.6	DSC	[2014CAR/DOS, 2014CAR/CAS]
	FUS		31.4	278.67	DSC	[2005DOM/MAR]
	FUS	(5–388)	33.67	280		[2003VAN/GAB]
	FUS		37.66	280.1		[1997DOM/GON]
	FUS		28.8	280.2	DSC	[1978ECK/MUL]
	SUB	(264–273)	115.5 ± 6.3	268	ME	[1965KAR/KYB, 1987STE/MAL]
	SUB		112.5 ± 6.3	298		[1965KAR/KYB]
	V	(281–327)	79.5	309	GS	[2001KUL/VER2]
	V	(281–327)	80.9	298	GS	[2001KUL/VER2]
	V	(278–378)	81.1	293		[1999NGU/BER]
	V	(373–423)	81.7	298	CGC	[1995CHI/HOS]
	V	(353–393)	79.3	298	CGC	[1994KOU/HOS, 2000OVA/KOU]
	V	(283–388)	75.4	336		[1992NGU/KAS]
	V	(349–410)	71.6	364	A	[1987STE/MAL]
	V	(405–528)	62.6	420	A	[1987STE/MAL]
	V	(474–529)	53.9	489	A	[1987STE/MAL]
	V		78.2 ± 0.8	323	C	[1979SEV]
	V		81.5 ± 0.8	298	C	[1979SEV]
	V		81.5 ± 0.8	298	C	[1977MAN/SEL]
	V	(298–325)	77.6	313		[1973WIL/ZWO]
	V	(400–529)	63.5	415	A, EB	[1987STE/MAL, 1970AMB/SPR]
	V	(378–504)	69.5	393	DTA	[1969KEM/KRE]
	V	(298–325)	77.6	311	ME	[1965DAV/KYB]
	V	(364–461)	69.6	379		[1958ROS/PAP]
$C_{10}H_{22}O$	[106-21-8]	(*dl*)-3,7-dimethyl-1-octanol				
	V	(341–467)	79.1	356	A	[1987STE/MAL]
$C_{10}H_{22}O_2$	[112-48-1]	ethylene glycol dibutyl ether (1,2-dibutoxyethane)				
	V	(356–476)	55.9	371	A	[1987STE/MAL]
	V		58.8 ± 0.1	298	C	[1970KUS/WAD]
$C_{10}H_{22}O_2$	[871-22-7]	1,1-dibutoxyethane				
	V	(274–314)	58.6 ± 0.3	298	GS	[2012SIL/PER]
	V	(304–464)	57.8 ± 0.2	298		[1948GON/ELV, 2012SIL/PER]
	V	(303–464)	47.3	318	A	[1987STE/MAL]
$C_{10}H_{22}O_2$	[5669-09-0]	ethylene glycol diisobutyl ether				
	V	(336–456)	46.1	351	A	[1987STE/MAL]
$C_{10}H_{22}O_2$	[1559-35-9]	ethylene glycol mono(2-ethylhexyl) ether				
	V	(381–502)	56.5	396	A	[1987STE/MAL]
$C_{10}H_{22}O_2$	[6931-71-1]	3,4-diethyl-3,4-hexanediol				
	V	(405–507)	54.7	420	A, EB	[1987STE/MAL, 1979BAL/FRI]
$C_{10}H_{22}O_2$	[2050-83-1]	3-ethyl-3-hydroxymethyl-2-heptanol				
	V	(338–500)	63.4	353	A	[1987STE/MAL]
$C_{10}H_{22}O_2$	[112-47-0]	1,10-decanediol				
	FUS		45.0	345.8	DSC	[2014BAD/NOW]
	FUS	(80–370)	44.2	345.6	AC	[1999LI/TAN]
	FUS		43.5	345.6	DSC	[1999LI/TAN]
	FUS		45.8	345.7		[1994STE/CHI2, 2014BAD/NOW]
	FUS		41.7	345.5	DTA	[1991ACR, 1990KNA/SAB]
	SUB		149.8 ± 0.6	342	C	[1990KNA/SAB]
	SUB		155.8 ± 0.9	298	C	[1990KNA/SAB]
	V		126.6 ± 4.2	298		[1994STE/CHI2, 2006UMN/KWE]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
	V		112.4	364		[1993PIA/FER, 2006UMN/KWE]
	V		120.4 ± 4.9	298		[1993PIA/FER, 2006UMN/KWE]
	V		113.7 ± 2.1	298		[1990KNA/SAB, 2006UMN/KWE]
$C_{10}H_{22}O_2S$	[126835-71-0]	3-(heptylthio)-1,2-propanediol				
	TRS		27.3	289.5		
	FUS		1.7	292.5	DSC	[1993ACR, 1990VAN/VAN]
$C_{10}H_{22}O_3$	[112-59-4]	diethylene glycol monohexyl ether				
	V	(413–473)	62.8	428		[2005LEE/SU]
	V	(403–423)	86.5	298	EB	[2004CHY/FRA2]
	V	(406–531)	62.7	421	A	[1987STE/MAL]
$C_{10}H_{22}O_3$	[24083-03-2]	dipropylene glycol monobutyl ether				
	V	(337–500)	63.2	352	A	[1987STE/MAL, 1947STU]
$C_{10}H_{22}O_3$	[127748-41-8]	3-(heptyloxy)-1,2-propanediol				
	FUS		28.8	288	DSC	[1993ACR, 1990VAN/VAN]
$C_{10}H_{22}O_4$	[20324-33-8]	tripropylene glycol monomethyl ether				
	V	(308–515)	58.7	323	A	[1987STE/MAL]
$C_{10}H_{22}O_5$	[143-24-8]	tetraethylene glycol dimethyl ether (tetraglyme)				
	V		76.9 ± 2.6	298	CGC	[2000NIC/ORF]
	V	(419–553)	58	434	A	[1987STE/MAL]
$C_{10}H_{22}S$	[3698-94-0]	1-ethylthiooctane				
	V	(384–545)	63.9 ± 0.6	298	EB	[1996STE/CHI]
$C_{10}H_{22}S$	[143-10-2]	1-decanethiol				
	FUS		33.3	247.9		[1996DOM/HEA, 1970FIN/MCC]
	V	(390–544)	56.4	405		[1999DYK/SVO]
	V	(283–293)	58.6	288	A	[1987STE/MAL]
	V	(413–534)	54.6	428	A	[1987STE/MAL]
	V		65.5 ± 0.5	298	C	[1977MAN/SEL]
$C_{10}H_{22}S$	[13402-60-3]	2-decanethiol				
	V	(380–534)	54.6	395		[1999DYK/SVO]
$C_{10}H_{22}S$	[544-02-5]	diisopentyl sulfide				
	V	(339–366)	57.9	352	A	[1987STE/MAL, 1999DYK/SVO]
	V	(340–365)	56.9	352	C	[1962MAC/MAY2]
$C_{10}H_{22}S$	[872-10-6]	dipentyl sulfide				
	V	(346–365)	U66.3	356		[1999DYK/SVO]
	V	(346–366)	58.7	356	A	[1987STE/MAL]
	V	(346–366)	57.5	358	EB	[1962MAC/MAY2]
$C_{10}H_{22}S_2$	[112-51-6]	dipentyl disulfide				
	V	(410–571)	59.8	425		[1999DYK/SVO]
	V		71.1 ± 0.2	298	C	[1985KUS]
$C_{10}H_{22}S_2$	[1191-67-9]	1,10-decanedithiol				
	V	(434–571)	72.3	449	A	[1987STE/MAL, 1999DYK/SVO, 1943HAL/REI]
$C_{10}H_{23}N$	[2016-57-1]	decylamine				
	FUS		42.70	289.2	DSC	[2005DOM/MAR]
	V		65.3 ± 2.3	298	CGC	[2013GOB/RAT]
	V	(299–343)	64.9 ± 0.3	298	GS	[2013THO/CHI]
	V		64.8 ± 4.6	298	CGC	[2013THO/CHI]
	V	(410–506)	52.4	425	A, EST	[1987STE/MAL, 1956MAN2]
	V	(329–431)	56.1 ± 0.6	380	BP	[1940RAL/SEL, 2013THO/CHI]
	V	(329–431)	65.1 ± 0.6	380	BP	[1940RAL/SEL, 2013THO/CHI]
$C_{10}H_{23}N$	[7378-99-6]	*N,N*-methyloctylamine				
	V	(420–458)	46.9	439	EB	[2012ROZ/BRU]
	V	(284–323)	54.0 ± 0.5	303		[1997VER]
	V	(371–517)	50.2	386	A	[1987STE/MAL]

TABLE 13. Phase change enthalpies of C_{10} organic compounds—Continued

Molecular formula	CAS reg. no. / Transition	Compound / Temp. range (K)	$\Delta_{trans}H_m$ (kJ mol^{-1})	T_m (K)	Method	Reference
$C_{10}H_{23}N$	[2050-92-2]	dipentylamine				
	V		61.2 ± 2.6	298	CGC	[2014THO/GOB]
	V	(379–527)	51.2	394	A	[1987STE/MAL]
	V	(379–527)	61.6 ± 1.5	298	A	[1987STE/MAL, 2014THO/GOB]
$C_{10}H_{23}NO_2$	[126835-62-9]	3-(heptylamino)-1,2-propanediol				
	FUS		28.8	324.9	DSC	[1993ACR, 1990VAN/VAN]
$C_{10}H_{23}N_3$	[67752-90-3]	[2-(dimethylamino)ethyl]methylhydrazone-2-propanone				
	V	(288–315)	62.3	301	A	[1987STE/MAL, 1980LEB/NAZ]
$C_{10}H_{24}NO_3PS$	[78-53-5]	*O,O*-diethyl-*S*-[2-(diethylamino)ethyl]thiophosphate				
	V	(358–407)	94.5	373	A	[1987STE/MAL, 1999DYK/SVO]
$C_{10}H_{24}N_2$	[646-25-3]	decane-1,10-diamine				
	FUS		57.81	332.9	DSC	[2002DAL/DEL]
	V	(338–353)	73.6	345	GS	[2011POZ/VER]
	V	(338–353)	80.2 ± 0.3	298	GS	[2011POZ/VER]
$C_{10}H_{24}N_4$	[996-70-3]	tetrakis(dimethylamino)ethylene				
	V	(358–485)	53.9 ± 0.5	298	EB	[1997STE/CHI4]
$C_{10}H_{24}N_4$	[295-37-4]	1,4,8,11-tetraazacyclotetradecane				
	SUB	(352–372)	133.9 ± 2.5	362	TE	[1983CLA/COR]
$C_{10}H_{27}N_5O_6$	[114606-56-3]	8-[[(1R)-1-(3,4-dimethoxyphenyl)-2-hydroxyethyl]amino]-3,7-dihydro-7-(2-methoxyethyl)-1,3-dimethyl-1*H*-pyrine-2,6-dione				
	FUS(I)		40.31	384.2		
	FUS(II)		39.88	401.2		
	FUS(III)		38.58	391.2	DSC	[1999GIR/PIE]

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