Enthalpies of Sublimation of Organic and Organometallic Compounds. 1910–2001

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A compendium of sublimation enthalpies, published within the period 1910–2001 (over 1200 references), is reported. A brief review of the temperature adjustments for the sublimation enthalpies from the temperature of measurement to the standard reference temperature, 298.15 K, is included, as are recently suggested values for several reference materials. Sublimation enthalpies are included for organic, organometallic, and a few inorganic compounds. © *2002 American Institute of Physics.*

Key words: compendium; enthalpies of condensation; evaporation; organic compounds; organometallic compounds; sublimation; sublimation enthalpy.

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1. Introduction

Sublimation enthalpies are important thermodynamic properties of the condensed phase. Frequently they are used in correcting enthalpies of formation to the gas phase and in evaluating environmental transport properties.[1,2] Sublimation enthalpy measurements are also useful to studies of polymorphism and predictions of molecular packing. The measurements provide benchmark numbers that can be used to validate the calculations.[3] Examination of the data in this compendium will reveal some large discrepancies in reported enthalpies of sublimation. It is likely that some of the discrepancies reported by different laboratories are due to measurements made on different polymorphic modifications.[4] Sublimation enthalpy measurements also can reveal differences in interactions in chiral solids and their racemic modifications. Very little experimental work has been reported in this respect.[5,6]

Our interests in sublimation enthalpies goes back nearly 3 decades.[5] Initially interested in using sublimation enthalpies to correct enthalpies of formation data to a standard state, we have since focused our attention on their measurement,[7] estimation,[8] and assessment.[9] In a parallel study, a compilation of available sublimation enthalpies was initiated in the 1980s.[5] A reasonably exhaustive version of this database covering the literature up to the mid 1990s is available on line at http://webbook.nist.gov/chemistry/. The present version updates this compilation to the year 2001. Although our intent has been to provide an exhaustive coverage of the literature from 1910 to 2001, this listing is probably still far from complete.

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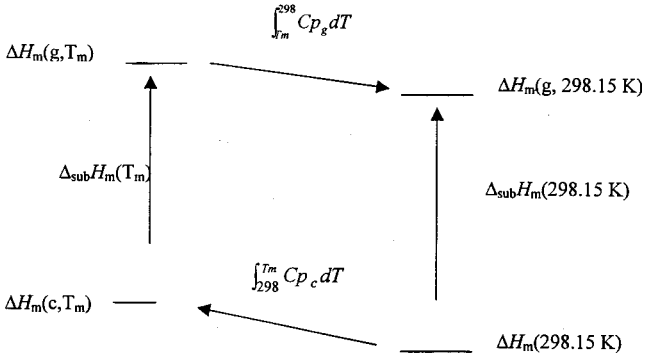


FIG. 1. A thermodynamic cycle for adjusting sublimation enthalpies to 298.15 K.

2. Heat Capacity Adjustments

Sublimation enthalpies are measurements based on mass transport and as such are directly or indirectly dependent upon vapor pressure. The vapor pressure of different solids at the same temperature can vary by many orders of magnitude. In order to obtain a reasonable amount of mass transport, it is frequently necessary to conduct these measurements at temperatures that differ substantially from the standard reference temperature, 298.15 K. The actual temperature of measurement depends on the sensitivity of the instrument or apparatus and the properties of the substance. In addition, these measurements are often conducted as a function of temperature.

The magnitude of the sublimation enthalpy is dependent on temperature. Figure 1 and Eqs. (1) and (2) illustrate the origin of this temperature dependence in terms of a thermodynamic cycle. If the heat capacities of the solid and gas phase are known, C_{p_c} and Cp_g, respectively, then the sublimation enthalpy at 298.15 K can be related to the experimental measurements by using Eq. (1). This equation, generally referred to as Kirchhoff's equation, can be used to adjust sublimation enthalpy measurements to any reference temperature. T_m represents either the temperature of measurement for calorimetric measurements or the mean temperature of measurement for experiments conducted over narrow ranges of temperature. Treating the heat capacities of the two phases as independent of temperature and integrating Eq. (1) results in Eq. (2). Since the magnitude of the heat capacity of the gas phase is usually smaller than that of the solid phase (*c*), sublimation enthalpies increase with decreasing temperature

$$\Delta_{sub}H_m(298.15\ K) = \Delta_{sub}H_m(T_m) + \int_{298.15}^{T_m}(C_{p_c} - Cp_g)dT, \quad (1)$$

$$\Delta_{sub}H_m(298.15\ K) \approx \Delta_{sub}H_m(T_m) + (C_{p_c} - Cp_g)[T_m - 298.15]. \quad (2)$$

Experimental heat capacities for many solids at 298.15 K are available.[10] Experimental gas phase heat capacities for compound that are solids at 298.15 K are unavailable and generally need to be estimated. Gas phase heat capacities can be calculated from statistical mechanics or estimated by group additivity methods.[11] A number of group additivity methods have been developed to estimate gas phase heat capacities.[11–13] However, group values for some functional groups are not available. This has encouraged the development of other estimation methods. Table 1 briefly summarizes the various equations that have been used in place of the second term in Eq. (2).

Equation (3) can easily be derived by assuming that the gas is ideal and that the Dulong–Petit value of 3RN holds for the solid, where the term R represents the gas constant and N is the number of atoms/molecule.[5] A similar relationship but characterized by a temperature coefficient of 6R [Eq. (4)] has been suggested by Pedley.[14] Temperature coefficients of 40 $J\,mol^{-1}$ have been used by Melia and Merrifield,[15] and a value of 60 $J\,mol^{-1}$ has been used by de Kruif *et al.*[16] for a series of amino acids and peptides.

A major limitation of most of the equations listed in Table 1 is that the heat capacity adjustments are treated as universal constants independent of molecular structure. Only Eq. (7) is sensitive to differences in molecular structure. This equation was derived from a correlation using estimated heat capacities of the solid at 298.15 K.[17] This correlation was developed from the observed dependence of the temperature adjustment on both molecular structure and size.[17] Experimental or estimated values of $C_{p_c}(298.15\ K)$ can be used in this equation.

Previous work has demonstrated that Eq. (7) gives results that are generally as good as or better than the use of the other equations in Table 1.[7,8(b),18] The use of Eq. (7) should be limited to the temperature range 200–500 K. A standard deviation of $\pm 33\ J\,mol^{-1}$ has been associated with the term: $[0.75 + 0.15C_{p_c}(298.15\ K)]$. The total uncertainty of the temperature adjustment depends on both the magnitude of C_{p_c} and T_m. In applications, an uncertainty of one-third of

TABLE 1. Equations for the temperature adjustments of sublimation enthalpies

Corrections for the sublimation enthalpies ($J\,mol^{-1}$)	Equation	Reference
$(C_{p_c} - Cp_g)[T_m - 298.15] = 2R[T_m - 298.15]$	(3)	5
$(C_{p_c} - Cp_g)[T_m - 298.15] = 6R[T_m - 298.15]$	(4)	14
$(C_{p_c} - Cp_g)[T_m - 298.15] = 40[T_m - 298.15]$	(5)	15
$(C_{p_c} - Cp_g)[T_m - 298.15] = 60[T_m - 298.15]$	(6)	16
$(C_{p_c} - Cp_g)[T_m - 298.15] = [0.75 + 0.15C_{p_c}(298.15\ K)][T_m - 2.98]$	(7)	17

the total temperature adjustment has been arbitrarily chosen as the uncertainty ($\pm 2\ \sigma$).[9]

Equations (3)–(6) do not require C_{p_c} values; their use can be an advantage if an appropriate group value or experimental heat capacity is unavailable for a particular substance. Temperature adjustments to 298.15 K are often small and frequently of the same order of magnitude as the uncertainty associated with the measurement. This is the rationale some authors give for not adjusting the measurements for temperature. It should be emphasized that the magnitude of the sublimation enthalpy will increase with decreasing temperature and even though the temperature adjustment may be small, failure to adjust for temperature incorporates a systematic error that can easily be minimized by using of one of the equations in Table 1.

The sublimation enthalpies reported in this paper, have not been adjusted to 298.15 K unless done so by the reporting authors. Different authors have used different methods. In some cases experimental data have been used for C_{p_c} and only Cp_g has been estimated. The reader is encouraged to refer to the original literature for details. In an effort to provide some assistance to the reader in this regard, a brief discussion of one of the few group additivity methods that are available for estimating the heat capacity of solids is included below.[12,19] This is followed by an illustration of how this value can be used in conjunction with Eq. (7) to provide temperature adjustments.

3. Group Additivity Values for C_{p_c}(298.15 K) Estimations

Table 2 parts (A) and (B) lists a set of group values that can be used in estimations of C_{p_c}(298.15 K). The groups and their corresponding values are identified by the italics. A hypothetical molecule is given in Fig. 2 that identifies each hydrocarbon group. The functional groups are self-explanatory. The R terms in Table 2 represent unidentified groups and are not included in the value. The use of these group values is illustrated with examples of C_{p_c}(298.15 K) estimations in Table 3. Values in brackets should be considered as tentative assignments. Further details are available in the literature.[19]

4. Reference Materials for Sublimation Enthalpy Measurements

Calibration is a fundamental requirement for every sublimation enthalpy measurement. Unlike other thermochemical measurements, uncertainties in sublimation enthalpies can be large, often several kJ mol^{-1} or more, particularly for compounds exhibiting low vapor pressures. While some of the observed differences in reported enthalpies may be due to polymorphism, others are probably due to the lack of a sufficient number of reference compounds that vary in their range of volatility. The ability of an experimental technique to measure vapor pressure in one pressure or temperature region does not in itself guarantee the same accuracy in another. Substantial variations in sublimation values are revealed in the tables that follow. This variance clearly establishes the importance of documenting the accuracy of the measurements through the use of appropriate reference materials that approximate the temperature and pressure regimes of the measurements.

A series of compounds have recently been proposed as reference materials.[9] These have been classified as primary, secondary, or tertiary reference materials, on the basis of various criteria. The materials classified as primary and secondary reference materials are listed in Table 4. The temperature range, the corresponding vapor pressures, and the recommended values are also included in the table.

5. Sublimation Enthalpy Compendium

The sublimation enthalpies, reported during the time period 1910–2001, are included in Tables 6 and 7. Table 5 contains a listing of the acronyms that are used in these two tables. Table 6 contains sublimation enthalpy data for organic compounds and Table 7 contains data for organometallic and a few inorganic compounds. Information in Table 6 is organized as shown below. Compounds are arranged according to molecular formula. The name of the compound, occasionally a synonym, and the CAS registry number are included on the first line. If the information was available, the first entry on the second line contains information regarding the polymorphic form studied. However, in most cases this information was not available. The range of temperatures studied is the next entry in the table. For measurements performed at a constant temperature or when not specified, this entry is left blank. The sublimation enthalpy at the mean temperature of measurement $\Delta_{\mathrm{sub}}H_{\mathrm{m}}(T_{\mathrm{m}})$ is the next entry followed by the mean temperature (K), an acronym briefly describing the type of measurement, and the reference to the original work. In some cases the type of measurement was not available, or recorded. In these instances this entry was left blank. If the authors of the work have adjusted their results to 298.15 K, then this information along with the reference is entered on the third line. This information is repeated for multiple measurements. The measurements are arranged in reverse chronological order. A similar format is followed in Table 7 with the major exception that each organometallic compound is arranged alphabetically by element and then according to the Hill system.

TABLE 2. Group values for estimating the C_{p_c}(298.15 K)

(A) Group values for estimating the C_{p_c}(298.15 K) of hydrocarbons.[a]

Hydrocarbon Groups

Aliphatic groups

Description of group	Formula	J K^{-1} mol^{-1}
primary sp^3 C	$-CH_3$	36.6
secondary sp^3 C	$-CH_2-$	26.9
tertiary sp^3 C	–CHR–	9
quaternary sp^3 C	$-CR_3$	−5

Cyclic aliphatic and olefinic groups

Description of group	Formula	J K^{-1} mol^{-1}
cyclic secondary sp^3 C	$-C_cH_2-$	24.6
cyclic tertiary sp^3 C	$-C_cHR-$	11.7
cyclic quaternary sp^3 C	$-C_cR_2-$	6.1
cyclic tertiary sp^2 C	$-C_cHR-$	15.9
cyclic quaternary sp^2 C	$-C_cR_2-$	[4.7]

Olefinic and Acetylenic Groups

Description of group	Formula	J K^{-1} mol^{-1}
secondary sp^2 C	$=CH_2$	46
tertiary sp^2 C	=CH–	21.4
quaternary sp^2 C	=C–	6.9
tertiary sp C	≡C–H	37.1
quaternary sp C	≡C–	15.5

Aromatic Groups

Description of group	Formula	J K^{-1} mol^{-1}
tertiary aromatic sp^2 C	$=C_aH-$	17.5
quaternary aromatic sp^2 C	$=C_aR-$	8.5
internal quaternary aromatic C	$=C_aR-$	[9.1]

(B) Group values for estimating the C_{p_c}(298.15 K) contribution of various functional groups.

Monodentate functional groups

Description of group	Formula	J K^{-1} mol^{-1}
Alcohols, phenols	–OH	23.5
Fluorine	–F	[24.8]
Chlorine	–Cl	28.7
Bromine	–Br	32.4
Iodines	–I	[27.9]
Nitrile	–CN	42.3
Carboxylic acid	$-CO_2H$	53.1
Acid chloride	–COCl	[60.2]
Aldehyde	–(C=O)H	[84.5]
Isocyanate	–NCO	[52.7]
Nitro group	$-NO_2$	56.1
Secondary sp^3 Nitrogen	$-NH_2$	21.6
Primary amides	$-CONH_2$	54.4
Thiols	–SH	[51.9]
Sulfonamide	$-SO_2NH_2$	104
Substituted urea	$-NHCONH_2$	82.8

Tridentate functional groups

Description of group	Formula	J K^{-1} mol^{-1}
tertiary sp^3 N	$-NR_2$	[31.5]
tertiary sp^2 N	=N–	
cyclic tertiary sp^2 N	$=N_c-$	13.9
cyclic tertiary sp^3 N	$-N_cR-$	1.2
cyclic tertiary amide	–CONR–	52.7
cyclic imide	–CONHCO–	74.1
phosphine oxide	–(PO)R–	28.5

Bidentate functional groups

Description of group	Formula	J K^{-1} mol^{-1}
Ketones	–CO–	28
Cyclic ketones	$-(CO)_c-$	34.3
Ester	$-CO_2R$	40.3
Lactones	$-CO_2-$	45.2
Cyclic carbonates	$-OCO_2-$	[68.2]
Cyclic anhydrides	$-CO_2CO-$	80.3
Ether	–O–	49.8
Cyclic ether	–Oc–	9.7
Secondary sp^3 N	–NH–	−0.3
Cyclic secondary sp^3 N	$-N_cH-$	23.9
Tertiary sp^2 N	=NH	10.7
Secondary amide	–CONH–	44.4

Tetradentate function groups

Description of group	Formula	J K^{-1} mol^{-1}
quaternary silicon	$-SiR_2-$	32.4
quaternary tin	$-SnR_2-$	77.2
quaternary germanium	Ge	18.9

TABLE 2. Group values for estimating the C_{p_c}(298.15 K)—Continued

Bidentate functional groups			Tetradentate function groups		
Description of group	Formula	J K^{-1} mol^{-1}	Description of group	Formula	J K^{-1} mol^{-1}
Cyclic secondary amide	–CONH–	46.4			
Tertiary sp^3 N	$-NR_2$	31.5			
Cyclic urea	–NHCONH–	63.6			
Carbamates	–OCONH–	76.1			
Sulfides	–S–	116			
Cyclic sulfides	$-S_c-$	20.3			
Disulfides	–S–S–	41			
Sulfoxides	–SO–	47.7			
Sulfones	$-SO_2-$	88.7			

[a]See Ref. 19.

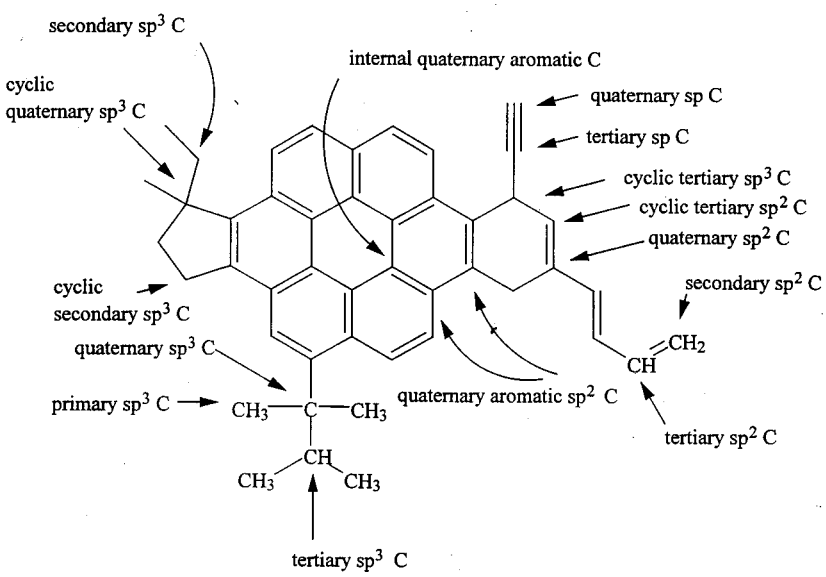
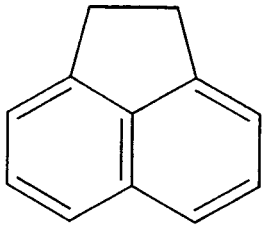


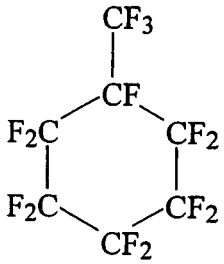
FIG. 2. A hypothetical molecule illustrating the different hydrocarbon groups in estimating *Cp*.

The authors have made an effort to present the data accurately and without error. However some of the information has been obtained from non-English journals with translations occasionally provided by the author's students. These tables have been complied over a period of 25 years and have gone through numerous revisions. Some errors have been corrected; however it is unlikely that all the errors have been detected and corrected. The reader is encouraged to consult the original literature when using this compendium.

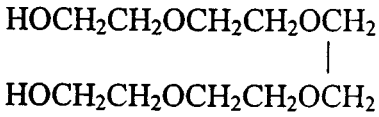
TABLE 3. Some estimations of C_{p_c}(298.15 K) using the group values of Tables 2(A) and 2(B)



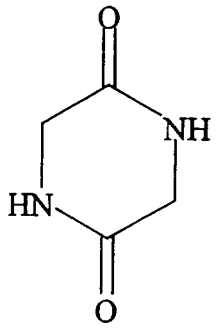
Cp_c(298.15 K) = 6*17.5+4*8.5+2*24.6
= 188 J mol^{-1} K^{-1}
(190.4 J mol^{-1}K^{-1})*
$\Delta_{sub}H_m$ (298.15 K) = $\Delta_{sub}H_m(T_m)$ +
[0.75 + (0.15*197)][T_m-298.15]



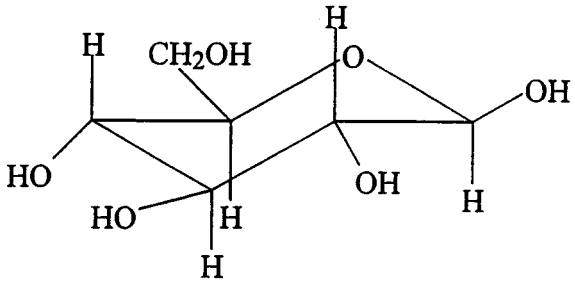
Cp_c(298.15 K) = 6*6.1 –5.0+14*24.8
= 378.8 J mol^{-1} K^{-1}
(353.1 J mol^{-1}K^{-1})*
$\Delta_{sub}H_m$ (298.15 K) = $\Delta_{sub}H_m(T_m)$ +
[0.75 + (0.15*379)][T_m-298.15]



Cp_c(298.15 K) = 10*26.9+2*23.5+5*49.8
= 515 J mol^{-1} K^{-1}
(515.5 J mol^{-1}K^{-1})*
$\Delta_{sub}H_m$ (298.15 K) = $\Delta_{sub}H_m(T_m)$ +
[0.75 + (0.15*515)][T_m-298.15]



Cp_c(298.15 K) = 2*24.6+2*46.4
= 142 J mol^{-1} K^{-1}
(134 J mol^{-1}K^{-1})*
$\Delta_{sub}H_m$ (298.15 K) = $\Delta_{sub}H_m(T_m)$ +
[0.75 + (0.15*142)][T_m-298.15]



Cp_c(298.15 K) = 5*11.7+9.7+26.9+5*23.5
= 212.6 J mol^{-1} K^{-1}
(219.2 J mol^{-1}K^{-1})*
$\Delta_{sub}H_m$ (298.15 K) = $\Delta_{sub}H_m(T_m)$ +
[0.75 + (0.15*213)][T_m-298.15]

Ph_3SiCl

Cp_c(298.15 K) = 15*17.5+3*8.5+32.4+28.7
= 349.1 J mol^{-1} K^{-1}
(337.6 J mol^{-1}K^{-1})*

*Domalski and Hearing.[10]

TABLE 4. Recommended reference standards for sublimation enthalpy measurements[a]

Formula	Substance	Temperature range (K)	Vapor pressure (Pa)	$\Delta_{sub}H_m$(298.15 K) (kJ mol^{-1})	Classification
$C_7H_6O_2$	Benzoic acid	298–383	0.1–360	(89 700±1000)	Primary
$C_{10}H_8$	Naphthalene	250–353	0.1–995	(72 600±600)	Primary
$C_{10}H_{10}Fe$	Ferrocene	277–360	0.1–166	(73 420±1080)	Primary
$C_{14}H_{10}$	Authracene	338–360	0.1–1.0	(103 360±2670)	Secondary
$C_{16}H_{10}$	Pyrene	350–420	0.2–50	(100 200±3590)	Secondary
I_2	Iodine	273–387	4–12 600	(62 440±82)	Secondary

[a]See Ref. 9.

TABLE 5. A list of acronyms used in Tables 6 and 7

A	calculated from the vapor pressure data reported by the method of least squares
B	calculated from the sum of the enthalpy of vaporization at temperature T and the enthalpy of fusion at the melting point
BE	experimental value closest to the results obtained by adding the experimental fusion and vaporization enthalpies
BG	Bourdon gauge
C	calorimetric determination
CATH	cathetometer
GC	gas chromatography
CGC–DSC	combined correlation gas chromatography–differential scanning calorimetry
DBM	dibutyl phthalate manometer
DM	diaphram manometer
DSC	differential scanning calorimeter
E	estimated
EB	ebulliometer
EM	effusion manometer
EV	evaporation
GS	gas saturation, transpiration
GSM	glass spring manometer
HSA	head space analysis
I	isoteniscope
IPM	inclined piston manometry
KG	Knudsen gauge
LE	Langmuir evaporation
MCV	method of calibrated volume
ME	Mass effusion–Knudsen effusion
MEM	modified entrainment method
MG	McLeod gauge
MM	mercury manometer
MS	mass spectrometry
NA	not available at the time of publication
OM	oil manometer
PG	Penning gauge
QF	quartz fiber
QR	quartz resonator
RG	Rodebush gauge
SG	spoon gauge
SMZG	silica membrane zero gauge
T	tensimeter
TC	thermal conductivity manometer
TB	thermobalance
TE	torsion effusion
TGA	thermal gravimetric analysis
TPTD	temperature programmed thermal desorption particle beam mass spectrometry
TRM	thermoradiometric method
TSGC	temperature scanning gas chromatography
U	unreliable
UV	ultraviolet absorption
V	viscosity gauge
VG	MKS baratron vacuum gauge

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
CBrN	cyanogen bromide				[506-68-3]
	(273–308)	45.2±4.2		MM	[54/7][70/1]
	(256–308)	47		GS	[20/1]
CBr_4	carbon tetrabromide				[558-13-4]
(monoclinic)		54.5±0.7	(298)	C	[84/3]
(monoclinic)	(295–319)	54.4±1.3	(307)	BG	[59/5]
(cubic)	(321–329)	49.4±1.3	(325)	BG	[59/5]
(cubic)		48.3	(320)		[55/8]
	(277–363)	51.9	(320)		[41/4]
CClN	cyanogen chloride				[506-77-4]
	(196–259)	35.7	(228)	A	[47/2]
CCl_4	carbon tetrachloride				[56-23-5]
		43.3	(226)	B	[63/6]
	(209–225)	38.8	(217)		[60/1][48/1]
	(227–248)	37.9			[48/1]
CFN	cyanogen fluoride				[1495-50-7]
	(147–191)	28.9	(176)		[87/4][64/17]
	(139–192)	24.4	(166)	A	[47/2]
	(133–203)	29.3	(168)		[31/1]
CF_2N_2	difluorocyanamide				[7127-18-6]
	(179–198)	20.6 (liq)	(189)		[87/4][66/10]
CF_2O	carbonyl fluoride				[353-50-4]
	(130–159)	23.2	(145)		[87/4][68/3]
CF_4	tetrafluoromethane				[75-73-0]
[α]	(76–90)	14.7	(83)		[87/4][70/25]
[β]	(70–76)	16.8	(73)		[87/4][70/25]
	(86–89)	14.7	(88)		[67/19]
		17.0	(76)		[63/6]
	(80–86)	14.0	(83)	A	[33/5]
CF_5N	pentafluoromethyl amine				[335-01-3]
	(128–141)	18.6	(135)		[87/4][51/18]
CIN	cyanogen iodide				[506-78-5]
	(337–426)	59.9	(352)	GSM	[87/4][43/2]
	(298–414)	58.6	(356)	A	[47/2]
	(337–426)	59.8±0.4		GSM	[43/2][70/1]
	(278–374)	58.3	(326)		[33/2]
CN_4O_8	tetranitromethane				[509-14-8]
	(255–286)	47.4	(271)		[87/4][41/6]
CO	carbon monoxide				[630-08-0]
	(54–61)	7.6	(58)		[87/4]
	(51–68)	8.1	(60)	A	[47/2]
	(57–68)	7.9	(62)	A	[31/3]
CO_2	carbon dioxide				[124-38-9]
	(198–216)	26.1	(207)		[87/4]
	(70–102)	27.2±0.4		LE	[74/13]
	(139–195)	26.3	(167)	A	[47/2]
	(154–196)	26.2	(173)	A	[37/5]
CHF_3	trifluoromethane				[75-46-7]
	(89–118)	25.6	(103)		[87/4]
CHI_3	iodoform				[75-47-8]
	(308–365)	69.9	(323)		[43/1]
CHN	hydrogen cyanide				[74-90-8]
	(244–258)	35.6	(251)	MM	[87/4][26/4]
	(202–254)	37.6	(228)	A	[47/2]
CHN_3O_6	trinitromethane				[517-25-9]
		45.2±2.1	(298)		[99/35]
		54.8±4.2			[70/7]
		46.7±0.4			[67/4][70/1]
					[77/1]
CH_2N_2	cyanamide				[420-04-2]
	(227–289)	75.9	(290)	TE,ME	[83/7]
		75.2	(298)		[83/7]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
CH_2N_4	tetrazole				[288-94-8]
		88.16	(353)	C	[93/8]
		87.8±1.4	(369)	ME	[93/8]
	(333–404)	88.0±1.6		ME	[90/31]
	(333–363)	97.5±4.2	(348)	ME	[51/3][70/1]
CH_2O_2	formic acid				[64-18-6]
	(268–281)	60.5	(275)		[87/4]
	(203–218)	62.1±1	(213)	TE,ME	[78/16]
	(265–268)	60.7	(266)		[30/1][60/1]
	(253–275)	60.1	(264)	A	[47/2]
$(CH_2O_2)_2$	formic acid dimer				[14523-98-9]
	(203–218)	64.1±1	(213)	TE,ME	[78/16]
CH_3Cl	methyl chloride				[74-87-3]
	(130–172)	31.6±0.1	(151)		[95/23]
		28.0		B	[40/3]
CH_3Cl_2OP	methylphosphonic dichloride				[676-97-1]
		62.3			[70/1][55/4]
CH_3I	methyl iodide				[74-88-4]
	(176–227)	40.2±0.4	(191)	VG	[82/6]
		U 69.9			[43/1][60/1]
CH_3NO	formamide				[75-12-7]
	(251–273)	72.4	(264)	TE,ME	[83/7]
		71.7	(298)		[83/7]
		71.7	(276)		[79/11]
CH_3N_5	5-aminotetrazole				[4418-61-5]
	(383–443)	112.6±1.2		ME	[90/31]
CH_4	methane				[74-82-8]
	(53–91)	9.7	(72)		[87/4]
	(54–90)	9.2	(72)		[63/6][55/2]
	(79–89)	10.0	(84)		[60/1]
	(48–78)	9.7	(63)	A,MS	[51/15]
	(67–88)	9.62	(77)	A	[47/2]
CH_4N_2O	urea				[57-13-6]
		90.9	(381)		[87/5]
	(338–362)	96.9	(351)	TE,ME	[83/7]
		98.6	(298)		[83/7]
		95.4	(361)		[78/19]
	(345–368)	87.9±2.1	(356)		[56/6][60/1]
					[70/1][87/4]
		88.2	(357)		[53/1]
CH_4N_2S	thiourea				[62-56-5]
		112.0±2	(298)	ME	[00/23]
		109±2.0	(408)	TE	[94/20]
		111±3.0	(298)		[94/20]
	(368–395)	106.6	(384)	TE,ME	[83/7]
		107.6	(298)		[83/7]
		112±1.5	(298)	C	[82/8]
		93.7±10			[70/11]
$CH_4N_4O_2$	nitroguanidine				[556-88-7]
	(402–473)	142.7±2.0	(298)	ME	[78/15]
CH_5NO	N-methylhydroxylamine				[593-77-1]
	(273–308)	56.6	(288)	I	[87/4][57/11]
CH_5N_3O	1-methyl-1-nitrosohydrazine				[758-19-0]
		79.5±0.4	(298)		[98/36]
CH_5N_3S	thiosemicarbazide				[79-19-6]
		125.8±1.5	(298)	C	[82/8]
CH_5O_3P	methylphosphonic acid				[993-13-5]
		48.1±4.2			[55/4][70/1]
CH_6N_4S	thiocarbohydrazide				[2231-57-4]
		152.1±3.0	(298)	C	[82/8]
C_2BrCl_5	bromopentachloroethane				[79504-02-2]
	(383–433)	44.4	(398)		[87/4][49/11]
$C_2Br_2Cl_4$	1,2-dibromotetrachloroethane				[630-25-1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(383–453)	52.5	(398)		[87/4][49/11]
	(323–423)	56.7	(373)	A	[35/4]
C_2Br_4	tetrabromoethylene				[79-28-7]
	(221–310)	44.2	(236)		[87/4]
$C_2Cl_3F_3$	1,1,2-trichloro-1,2,2-trifluoroethane				[76-13-1]
	(205–233)	32.9	(219)	A	[47/2]
$C_2Cl_4F_2$	1,1,2,2-tetrachloro-1,2-difluoroethane				[76-12-0]
	(235–293)	36.4	(278)		[87/4][47/2]
	(237–293)	38.2	(265)	A	[47/2]
C_2Cl_6	hexachloroethane				[67-72-1]
	(317–345)	58.9	(331)		[87/4]
(melting point 186.6)	(306–459)	48.8	(382)	A	[47/2]
triclinic form	(286–447)	59.1±0.7	(367)		[47/3][60/1] [70/1][41/1]
cubic form	(286–447)	51	(367)		[47/3][60/1] [41/1]
	(335–453)	50.5			[35/3]
	(288–333)	59.0	(310)	GS,A	[30/6]
$C_2F_2O_2$	oxalyl fluoride				[359-40-0]
	(234–260)	16.7	(247)		[87/4]
C_2F_6	hexafluoroethane				[76-16-4]
		26	(103)		[63/6][48/4]
C_2N_2	cyanogen				[460-19-5]
	(202–239)	33	(224)		[87/4]
	(177–230)	33.6	(204)	A	[47/2]
	(202–245)	34.4	(223)	MM	[39/2]
	(198–240)	32.4	(224)		[25/2][75/10]
			NA		[16/1]
$C_2N_6O_{12}$	hexanitroethane				[918-37-6]
		70.7	(298)		[99/35]
	(293–343)	30.4	(308)		[87/4][63/10]
	(293–313)	70.7±1.7	(303)	ME	[69/10][77/1]
	(293–343)	70.7±1.7			[68/5]
C_2H_2	acetylene				[74-86-2]
	(98–145)	23.5	(130)		[87/4]
		21.9	(298)	H	
	(133–191)	21.8	(162)		[60/1]
		20.2	(298)	H	
	(151–193)	25.2	(193)		[56/18]
	(130–189)	22.7	(160)	A	[47/2]
		21.1	(298)	H	
	(89–169)	22.1	(129)	A	[43/4]
$C_2H_2F_3NO$	trifluoroacetamide				[354-38-1]
	(288–329)	81	(302)	I	[87/4][78/6]
	(288–329)	77.7±1.4	(298)	I	[78/6]
$C_2H_2I_2$	*trans*-diiodoethylene				[590-27-2]
	(253–265)	40.7	(258)	ME	[33/1][60/1] [87/4]
$C_2H_2O_4$	oxalic acid (anhydrous)				[144-62-7]
α	(303–328)	93.4	(316)		[87/4]
β	(310–325)	93.3	(318)		[87/4]
α		98.5			[83/23]
β		92.5			[83/23]
α	(303–328)	93.7±1.3	(298)	TE	[75/5]
(orthorhombic)	(311–325)	97.9±2.2	(318)		[53/4][60/1]
(monoclinic)	(311–323)	93.3	(317)		[53/4][60/1]
	(292–320)	61.8	(306)	A	[47/6]
	(333–378)	90.6		GS	[26/3]
$C_2H_3ClO_2$	chloroacetic acid				[79-11-8]
		75.3±4.2			[28/1][49/4] [70/1]
$C_2H_3Cl_3O_2$	trichloroacetaldehyde hydrate				[302-17-0]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
	(263–319)	50.9	(291)	A	[47/2]
$C_2H_3FN_2O_5$	2-fluoro-2,2-dinitroethanol				[17003-75-7]
		55.6±2.1			[77/1][68/7]
$C_2H_3NO_3$	oxalic acid, monoamide				[471-47-6]
		108.9±2.1	(298)	ME	[88/18]
	(355–363)	107.9	(359)	ME	[53/1][60/1]
					[87/4]
C_2H_3NS	methyl isothiocyanate				[556-61-6]
	(238–293)	31.5	(266)	A	[47/2]
$C_2H_3N_3$	1,2,4-triazole				[288-88-0]
		80.7±0.5	(298)	C	[99/8]
	(281–296)	84.1	(288)	ME	[89/8]
	(281–296)	84.0±0.7	(298)	ME	[89/8]
		80.6±0.5			[85/6]
		84.1		ME	[61/3]
$C_2H_3N_3O_6$	1,1,1-trinitroethane				[595-86-8]
		72.0±8.8	(298)		[99/35]
C_2H_4	ethylene				[74-85-1]
	(79–104)	18.4	(91.5)	A,MS	[87/4][51/15]
		15.3	(298)	H	
	(237–289)	44.5 (liq)	(274)		[87/4]
		44.2	(298)	H	
	(77–103)	15.0			[82/19]
	(237–283)	44.3 (liq)	(260)	A	[47/2]
		43.7	(298)	H	
$C_2H_4Br_2$	1,2-dibromoethane				[106-93-4]
	(229–248)	54.8	(239)		[48/1]
	(251–281)	49.8	(258)	A	[48/1][47/2]
					[87/4]
$C_2H_4I_2$	1,2-diiodoethane				[624-73-7]
		65.7±4.1			[54/6][70/1]
$C_2H_4N_2O_2$	diformylhydrazine				[628-36-4]
	(340–373)	205.1±0.7	(356)	ME	[80/11]
	(370–403)	100.8			[56/6][60/1]
$C_2H_4N_2O_2$	oxamide				[471-46-5]
		117.3±1.2	(298)	TE,ME	[88/18]
	(370–398)	115.8	(387)	TE,ME	[83/7]
	(353–369)	113.0	(361)	ME	[53/1]
					[60/1][70/1]
$C_2H_4N_2S_2$	dithiooxamide				[79-40-3]
		103.8	(298)	TE,ME	[88/18]
	(345–372)	105.1	(361)	TE,ME	[83/7]
	(360–378)	105.4	(369)	ME	[53/1][60/1]
					[87/4]
$C_2H_4N_4$	dicyandiamide				[461-58-5]
	(420–450)	128.7	(436)	TE,ME	[83/7]
$C_2H_4N_4$	1-methyltetrazole				[16681-77-9]
	(282–311)	86.7±1.9		ME	[90/31]
$C_2H_4N_4$	5-methyltetrazole				[4076-36-2]
	(323–418)	93.8±0.5		ME	[90/31]
$C_2H_4O_2$	acetic acid				[64-19-7]
	(243–289)	54.5 (liq)	(274)		[87/4]
	(213–230)	67.3±1	(223)	TE,ME	[78/16]
	(213–230)	70±1	(213)	TE,ME	[78/16]
$(C_2H_4O_2)_2$	acetic acid dimer				
	(213–230)	70.2±1	(213)	TE	[78/16]
	(213–230)	68.9±1	(213)	ME	[78/16]
$C_2H_4O_3$	methyl hydrogen carbonate				[7456-87-3]
	(204–237)	18.2±1.6	(220)		[73/9]
C_2H_5NO	acetamide				[60-35-5]
		78.5±0.3			[98/38]
	(273–293)	77.8	(284)	TE,ME	[83/7]
		77.2	(298)		[83/7]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
		78.7±0.3			[75/18][77/1]
		80.3±1	(298)		[71/16]
		80.3±1.3	(298)	C	[65/8]
	(298–349)	77.4±0.4	(323)	GS	[59/3][87/4]
	(293–306)	U57.2	(300)		[52/4]
$C_2H_5NO_2$	methyl carbamate				[598-55-0]
	(287–305)	74.5±0.8	(296)	GS	[59/4]
$C_2H_5NO_2$	glycine				[56-40-6]
	(408–431)	136.5±2	(419)	TE,ME	[79/1]
	(325–425)	U 96.2±4	(375)	LE	[77/2]
	(413–450)	138.1±4.6	(298)	C	[77/3]
	(453–471)	136.4±4.0	(462)	ME	[65/1][70/1]
					[64/16]
	(412–417)	130.5±2	(414)	ME	[59/1]
C_2H_5NS	thioacetamide				[62-55-5]
		83.3±0.3	(298)	C	[82/7][85/5]
		82.8±0.3	(298)	C	[82/17]
$C_2H_5N_5$	1-methyl-5-aminotetrazole				[5422-44-6]
	(379–438)	116.4±1.7		ME	[90/31]
$C_2H_5N_5$	2-methyl-5-aminotetrazole				[6154-04-7]
	(310–373)	90.6±1.1		ME	[90/31]
C_2H_6	ethane				[74-84-0]
	(80–90)	22.6	(85)		[72/26]
		20.5	(90)	B	[63/6]
$C_2H_6N_2O$	N-methylurea				[598-50-5]
		94.4±0.84	(343)	C	[93/17]
		97.1±0.4	(298)		[93/17]
		94.9±0.6	(337)	C	[90/25]
		93.3±1.2	(355)	TE	[90/5][87/5]
		87.3	(348)		[87/5]
		99.3±0.7			[86/6]
		78.2		E	[82/13]
$C_2H_6N_2O_2$	N-methyl-N-nitromethanamine				[4164-28-7]
	(315–324)	69.9	(319)	DBM	[52/2][77/1]
$C_2H_6N_2S$	N-methylthiourea				[598-52-7]
		112.9±3	(298)	ME	[00/23]
		111±3.0	(381)	TE	[94/20]
$C_2H_6O_2S$	dimethyl sulfone				[67-71-0]
		77.0±2.9			[70/1][U/3]
$C_2H_6O_4$	*bis*-hydroxymethyl peroxide				[17088-73-2]
		94.1±4.2		ME	[53/3][70/1]
$C_2H_8N_2$	ethylenediamine				[107-15-3]
	(242–278)	65.6	(263)	IPM	[87/4][75/32]
$C_2H_8N_6O_2$	1,1′-(1,2-ethanediyl)*bis*(1-nitrosohydrazine)				[216489-95-1]
		172.4±1.3	(298)		[98/36]
C_3HN	cyanoacetylene				[1070-71-9]
	(247–279)	42.3	(264)		[87/4]
$C_3H_2N_2$	malononitrile				[109-77-3]
	(278–299)	78.2±1.0	(298)		[90/18]
		79.1±8		ME	[67/3][70/1]
$C_3H_2OS_2$	1,3-dithiol-2-one				[2314-40-1]
		73.6±0.8	(298)		[73/16][77/1]
$C_3H_2OS_3$	1,3-dithiole-2-thione				[930-35-8]
		75.4±0.4	(298)		[73/16][77/1]
$C_3H_3N_3$	1,3,5-triazine				[290-87-9]
	(212–229)	58.2	(222)	TE,ME	[83/7]
		54.2±0.2	(298)		[82/16]
	(283–313)	56.5±2.1			[82/9]
CH_2N_4	tetrazole				[288-94-8]
	(242–264)	U 43.1	(253)	ME	[68/8]
$C_3H_3N_3O_2$	6-azauracil				[461-89-2]
		141		LE	[74/8]
$C_3H_3N_3O_3$	cyanuric acid				[108-80-5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(440–473)	131	(458)	ME,TE	[83/7]
		133	(298)		[83/7]
$C_3H_3N_5O_{10}$	1,1,1,2,2-pentanitropropane				[62626-83-9]
		77.4±1.3	(298)		[99/35]
$C_3H_4N_2$	imidazole				[288-32-4]
	(292–309)	83.1±0.2	(300)	ME	[87/9]
		83.1±0.2	(298)	ME	[86/15]
	(288–310)	80.8	(301)	ME,TE	[83/7]
		74.5±0.4	(298)	C	[80/5]
		85.3	(298)		[61/3]
$C_3H_4N_2$	pyrazole				[288-13-1]
	(268–287)	74.3±0.4	(275)	ME	[87/9]
		74.0±0.4	(298)		[87/9][86/15]
	(253–273)	72.7	(265)	TE,ME	[83/7]
		69.2±3	(298)	C	[80/5]
		71.8			[79/11]
		67.7			[61/3]
$C_3H_4N_2O$	2-cyanoacetamide				[107-91-5]
	(325–348)	99.7	(336)	TE,ME	[83/7]
$C_3H_4N_2O_4$	3-nitro-2-isoxazoline-2-oxide				[4122-45-6]
		71.1±8.4			[77/1][69/10]
$C_3H_4OS_2$	1,3-dithiolan-2-one				[2080-58-2]
		80.3±0.4			[73/16][77/1]
$C_3H_4O_2S$	thiete sulfone (2H-thiete-1,1-dioxide)				[7285-32-7]
		83.7±2.5		B	[69/11][77/1]
$C_3H_4O_3$	ethylene carbonate				[96-49-1]
	(273–297)	78.5±4.2	(285)	ME	[87/4][71/12]
					[77/1]
		73.2±2.5			[70/1][58/1]
$C_3H_4O_4$	malonic acid				[141-82-2]
	(339–357)	108.9±0.7	(348)	ME	[99/10]
		111.4±0.7	(298)		[99/10]
	(291–320)	72.7	(306)	A	[87/4][47/6]
		105.1±0.8		C	[83/26]
$C_3H_4O_5$	tartronic acid				[80-69-3]
		116.4±0.3		C	[83/26]
$C_3H_4S_3$	1,3-dithiolan-2-thione				[822-38-8]
	(294–303)	81.8±0.8	(298)		[67/5][70/1]
C_3H_5NO	acrylamide				[79-06-1]
	(303–358)	81.8	(330)		[57/6]
C_3H_5NO	2-azetidinone				[930-21-2]
		77.4±0.3	(298)	ME	[96/21]
C_3H_6	cyclopropane				[75-19-4]
		29.2	(145)	B	[63/6]
		27.4	(298)	H	
	(115–141)	28.2	(128)	A,MS	[51/15]
$C_3H_6N_2O$	2-imadazolidinone				[120-93-4]
		83.7	(298)		[99/32]
$C_3H_6N_2O_2$	acetylurea				[591-07-1]
	(360–407)	102.4±0.7	(383)	C	[88/12]
		103.1±0.7	(298)		[88/12]
		103.1±0.7	(298)	C	[85/5]
$C_3H_6N_2O_2$	malonamide				[108-13-4]
	(397–403)	126.4±0.5	(298)	C	[89/17]
$C_3H_6N_4$	1,5-dimethyltetrazole				[5144-11-6]
	(303–343)	86.2±1.0		ME	[90/31]
$C_3H_6N_6$	2,4,6-triamino-*s*-triazine (melamine)				[108-78-1]
	(417–531)	121.3±4.2	(474)	GS	[60/6][70/1]
	(417–447)	123.3	(432)		[87/4]
$C_3H_6N_6O_3$	N,N′,N″-trinitrosohexahydrotriazine				[13980-04-6]
	(343–447)	134.3±0.7	(298)	ME	[78/15]
	(383–411)	112.1		ME	[74/11]
		112.1			[53/6][60/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_3H_6N_6O_6$	N,N′,N″-trinitrohexahydrotriazine				[121-82-4]
		134.3	(298)		[78/15]
	(325–360)	112.5±0.8		ME	[74/11]
	(329–371)	130.1	(350)		[69/12]
$C_3H_6O_2$	propionic acid				[79-09-4]
	(225–238)	74.1±1	(233)	TE	[78/16]
		73.2±1	(233)	ME	[78/16]
$(C_3H_6O_2)_2$	propionic acid dimer				[32574-16-6]
	(225–238)	81.3±1	(233)	TE	[78/16]
		79.4±1	(233)	ME	[78/16]
$C_3H_6O_3$	1,3,5-trioxane				[110-88-3]
	(212–231)	57.9	(223)	TE,ME	[83/7]
		55.6	(298)		[83/7]
		56.5	(298)	C	[75/17]
		56.2±0.2	(298)	C	[69/8][77/1]
$C_3H_6S_3$	1,3,5-trithiane				[291-21-4]
		93.2±0.2	(298)	ME	[01/14]
	(320–339)	91.5	(331)	TE,ME	[83/7]
		93.9	(298)		[83/7]
C_3H_7NO	acetone oxime				[127-06-0]
	(313–333)	59.6	(323)	I	[87/4][75/33]
C_3H_7NO	N-methyl acetamide				[79-16-3]
		70.8±2.0	(298)		[96/21]
	(288–303)	54.0			[52/4][60/1]
C_3H_7NO	propanamide				[79-05-0]
	(283–343)	75±4.0	(298)	TE	[00/1]
		79.2±0.3			[75/18][77/1]
		73.3			[60/13]
	(318–346)	79.1±0.4		GS	[59/3]
$C_3H_7NO_2$	L-(*d*)-alanine				[56-41-7]
	(407–426)	132.8±1	(414)	TE,ME	[79/1][87/4]
	(413–450)	132.4±1.3	(433)	C	[77/3]
		144.8±4.2	(298)		[77/3]
$C_3H_7NO_2$	D-(*l*)-alanine				[338-69-2]
	(342–442)	U 105±8	(392)	LE	[77/2]
	(453–469)	138.3±8	(461)	ME	[65/1][70/1]
					[64/16]
$C_3H_7NO_2$	β-alanine				[107-95-9]
	(384–402)	133.1±0.7	(393)	C	[83/24]
		134±2	(298)	C	[83/24]
	(318–418)	U 105±4	(368)	LE	[77/2]
$C_3H_7NO_2$	ethyl carbamate				[51-79-6]
	(256–273)	77.7	(265)	TE,ME	[83/7]
		76.3	(298)		[83/7]
		71.9	(322)		[76/10]
	(292–307)	89.1±0.8	(299)	GS	[59/4]
$C_3H_7NO_2$	sarcosine (N-methylglycine)				[107-97-1]
	(380–413)	146±1	(298)	C	[78/4]
$C_3H_7NO_3$	DL-serine				[302-84-1]
	(354–454)	U 83.7±4	(404)	LE	[77/2]
$C_3H_7NO_2S$	L-cysteine				[52-90-4]
	(337–437)	U 96.2±4.2	(387)	LE	[77/2]
C_3H_8	propane				[74-98-6]
		28.5	(86)	B	[63/6]
$C_3H_8N_2O$	N-ethylurea				[625-52-5]
	(333–365)	91.8±1.2	(354)	TE	[90/5][87/5]
		100.3±0.2	(343)		[86/6][90/5]
$C_3H_8N_2O$	1,1-dimethylurea				[598-94-7]
	(326–369)	92.5±1.3	(357)	TE	[90/5][87/5]
		99.1±0.4	(348)		[86/6]
$C_3H_8N_2O$	1,3-dimethylurea				[96-31-1]
	(316–373)	87.2±0.6	(353)	TE	[90/5][87/5]
$C_3H_8N_2S$	1,3-dimethylthiourea				[534-13-4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		111.8±3	(298)	B,HA	[00/23]
		107.3±4.0	(298)	B	[94/17]
		108±3.0	(361)	B	[94/20]
$C_3H_8N_2S$	1-ethylthiourea				[625-53-6]
		118.8±5	(298)	ME	[00/23]
$C_3H_8O_2S$	ethyl methyl sulfone				[594-43-4]
		77.8±2.9			[U/3][70/1]
$C_3H_9NO_2S$	trimethyl amine · sulfur dioxide complex				[177634-55-8]
	(292–349)	60.6	(307)		[87/4][43/3]
$C_4F_6NS_2$	*bis*(trifluoromethyl)-1,3,2-dithiazol-2-yl				
	(253–283)	49.0±1.5	(268)	PG	[00/41]
$C_4F_{12}P_4$	1,2,3,4-*tetrakis*(trifluoromethyl)tetraphosphetane				[393-02-2]
	(292–339)	65.3	(307)		[87/4][58/20]
C_4N_2	dicyanoacetylene				[1071-98-3]
	(263–273)	44.3	(268)	I	[57/4][75/10]
					[87/4]
$C_4HF_6N_3$	3,5-*bis*(trifluoromethyl)-1,2,4-triazole				[709-62-6]
	(271–283)	75.6±0.8	(277)	ME	[94/22]
		74.7±0.8	(298)		[94/22]
C_4H_2	butadiyne				[460-12-8]
	(190–232)	36.2	(211)	A	[47/2]
	(188–234)	36.3			[33/3]
$C_4H_2N_2$	fumaronitrile				[764-42-1]
	(250–269)	69.6	(260)	TE,ME	[83/7]
		68.6	(298)		[83/7]
	(245–281)	72±0.8	(263)	ME	[67/3][70/1]
$C_4H_2N_2S$	4-cyanothiazole				[1452-15-9]
		73.9±0.4	(298)	C	[66/5][70/1]
$C_4H_2O_3$	maleic anhydride				[108-31-6]
	(308–326)	85.4	(317)		[87/4]
		68.8	(258)	TE,ME	[83/7]
		70.0	(298)		[78/10]
	(308–325)	71.5±5			[49/2][70/1]
$C_4H_2O_4$	butyndioic acid				[110-16-7]
		NA			[72/7]
$C_4H_2O_4$	3,4-dihydroxy-3-cyclobutene-1,2-dione				[2892-51-5]
	(469–499)	152.5	(486)	ME,TE	[83/7]
		154.3	(298)		[83/7]
		83.7±16.7	(298)	E	[71/5][77/1]
$C_4H_3BrN_2O_2$	5-bromouracil				[51-20-7]
		128.4		LE	[74/8]
$C_4H_3FN_2O_2$	5-fluorouracil				[51-21-8]
		NA			[02/1]
$C_4H_3NO_3$	2-nitrofuran				[609-39-2]
		75.3±2.1			[80/28][86/5]
$C_4H_4BrN_3O$	5-bromocytosine				[2240-25-7]
	(403–468)	148.4±1.5	(435)		[75/14]
$C_4H_4Cl_4O_2S$	3,3,5,5-tetrachlorotetrahydrothiophene 1,1-dioxide				[3737-41-5]
	(303–348)	88.7	(325)	ME	[78/31]
$C_4H_4F_3NO_3$	N-(trifluoroacetyl)aminoacetic acid				[383-70-0]
	(273–393)	98.8	(288)		[87/4][60/20]
$C_4H_4IN_3O$	5-iodocytosine (4-amino-5-iodopyrimidinone)				[1122-44-7]
	(413–463)	144±1.5	(438)		[75/14]
$C_4H_4N_2$	pyrazine				[290-37-9]
	(288–317)	56.2	(303)		[95/5]
		56.3±0.5		C	[62/4][70/1]
$C_4H_4N_2$	succinonitrile				[110-61-2]
	(279–298)	70±0.3	(289)		[60/7][77/1]
$C_4H_4N_2OS$	2-thiouracil				[141-90-2]
		129.3		LE	[74/8]
$C_4H_4N_2OS$	4-thiouracil				[591-28-6]
CH_2N_4	tetrazole				[288-94-8]
		125.5		LE	[74/8]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
$C_4H_4N_2O_2$	pyrazine 1,4-dioxide				[2423-84-9]
		116.9±0.8	(298)	C	[97/25]
$C_4H_4N_2O_2$	uracil				[66-22-8]
	(394–494)	127.0±2.0	(439)	TE	[00/2]
	(452–587)	130.6±4.0	(519)	ME,TE	[80/18]
	(452–587)	131±5	(298)	TE,GS	[80/18]
	(378–428)	120.5±1.3	(403)	QR	[80/19]
		121.7	(425)	MS	[79/28]
	(500–545)	133.9±8	(523)	HSA	[78/17]
		126.5±2.2	(440)	C	[77/13]
	(393–458)	120.5±5.2	(426)	LE	[75/16][74/8]
		115.5±2.1		ME	[72/32][00/2]
		U 83.7	(485)	MS	[65/2]
$C_4H_4N_2O_2S$	thiobarbituric acid				[504-17-6]
	(400–461)	110±4.0	(430)	TE	[99/6]
$C_4H_4N_2O_3$	barbituric acid				[67-52-7]
	(294–438)	111.3±0.3		GS	[99/42]
	(392–493)	113±4.0	(442)	TE	[99/6]
	(404–479)	123.3±1.7	(440)	ME	[90/32]
$C_4H_4N_2S_2$	2,4-dithiouracil				[2001-93-6]
	(393–443)	119.7±2.4	(418)		[75/14]
$C_4H_4N_6$	8-azaadenine				[1123-54-2]
	(418–463)	128.4±1.3	(440)		[75/14]
$C_4H_4N_8O_{13}$	*bis*-(2,2,2-trinitroethyl)-N-nitrosoamine				[34882-73-0]
	(333–354)	97.9±0.8	(343)	ME	[73/1]
$C_4H_4N_8O_{14}$	*bis*-(2,2,2-trinitroethyl)-N-nitroamine				[19836-28-3]
	(340–356)	117.6±0.8	(348)	ME	[73/1]
C_4H_4O	furan				[110-00-9]
	(173–187)	39.2	(180)		[53/15]
$C_4H_4O_2$	cyclobutane-1,2-dione				[33689-28-0]
	(251–289)	69.1±3.5	(270)	HSA	[U/5]
	(295–335)	54.8	(315)		[85/2]
$C_4H_4O_2$	cyclobutane-1,3-dione				[15506-53-3]
	(274–322)	73.6±3.7	(298)	HSA	[78/14]
$C_4H_4O_3$	succinic anhydride				[108-30-5]
	(298–320)	80.5±1.6	(309)	ME	[90/4]
		80.7±1.6	(298)	C	[90/4]
	(290–311)	82.2	(302)	ME,TE	[83/7]
$C_4H_4O_4$	*cis*-butenedioic acid				[110-16-7]
	(348–389)	105.4±1.7	(368)	ME	[74/5]
	(357–367)	110±2.5			[38/1][60/1]
					[70/1]
	(356–371)	109±4.2			[34/1]
$C_4H_4O_4$	*trans*-butenedioic acid				[110-17-8]
	(371–391)	123.6±2.0	(381)	TE,ME	[77/4]
		136±6.3	(365)	QF	[38/1][35/1]
					[60/1]
	(358–371)	134.3±4.2			[34/1]
$C_4H_4O_4$	diglycolic anhydride				[4480-83-5]
	(382–303)	84.2±1.1	(294)	ME,TE	[83/7]
C_4H_4S	thiophene				[110-02-1]
	(195–228)	46.8	(213)		[87/4][56/8]
	(192–213)	49.0	(203)		[44/1]
C_4H_5N	pyrrole				[109-97-7]
		NA			[41/3]
$C_4H_5NO_2$	succinimide				[123-56-8]
	(317–340)	83.1±1.5	(329)	ME	[90/4]
		83.6±1.5	(298)		[90/4]
		88.0		B	[89/27]
$C_4H_5N_3O$	cytosine				[71-30-7]
	(505–525)	151.7±0.7		GS	[98/37]
	(423–483)	147.2±2.6	(453)	ME	[84/12]
		155.0±3.0	(298)		[84/12]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		167±10	(298)	TE	[80/9]
	(450–470)	176±10	(298)	C	[80/21]
		NA			[77/15]
		150.6		ME	[74/8][75/16]
$C_4H_5N_3O_2$	5-aminouracil				[932-52-5]
		145.6		LE	[74/8]
$C_4H_5N_3O_2$	6-azathymine				[932-53-6]
	(358–403)	112.5±2.3	(380)		[74/14]
$C_4H_5N_3S$	2-thiocytosine				[333-49-3]
	(408–458)	158±1.6	(433)		[75/14]
$C_4H_5N_7O_{12}$	*bis*-(2,2,2-trinitroethyl)amine				[34880-53-0]
	(338–349)	80.8±0.4		ME	[73/1][77/1]
C_4H_6	2-butyne				[503-17-3]
	(200–239)	37.4	(220)	A	[47/2]
$C_4H_6N_2$	2-methylimidazole				[693-98-1]
	(301–318)	88.2±0.7	(309)	ME	[92/25]
		88.4±0.7	(298)		[92/25]
$C_4H_6N_2O$	3-amino-5-methylisoxazole				[1072-67-9]
		81.6±2.5			[73/20][77/1]
$C_4H_6N_2O_2$	2,5-piperazinedione				[106-57-0]
	(413–450)	103.8±2.1	(428)	ME	[87/4][56/7]
$C_4H_6N_4O$	2,4-diamino-6-hydroxypyrimidine				[56-06-4]
	(423–471)	147.6±0.2		GS	[99/42]
$C_4H_6N_4O_8$	1,1,3,3-tetranitrobutane				[3759-60-2]
		87.9±0.8	(298)		[99/35]
$C_4H_6N_4O_8$	2,2,3,3-tetranitrobutane				[20919-97-5]
		78.2±0.8	(298)		[99/35]
$C_4H_6N_4O_8$	1,1,1,3-tetranitro-2-methylpropane				[42216-58-0]
		91.2	(298)		[99/35]
$C_4H_6N_4O_8$	1,1,1,4-tetranitrobutane				[20919-96-4]
		99.6	(298)		[99/35]
$C_4H_6O_4$	dimethyl oxalate				[553-90-2]
		74.6±0.7	(298)	C	[96/10]
	(268–298)	75.6±1.6	(283)	HSA	[96/10]
		75.3±1.6	(298)		[96/10]
		74.9±0.6		B	[96/10]
	(289–306)	47.4±0.5		BG	[76/5][75/13]
$C_4H_6O_4$	succinic acid				[110-15-6]
	(356–376)	120.5	(368)	TE,ME	[83/7]
		123.1	(298)		[83/7]
	(372–401)	118.1±3.3	(386)	ME	[70/1][60/4]
		120.3±4.4	(298)		[70/1][60/4]
		121.8±3.3	(298)		[60/4][99/10]
	(292–320)	73.6	(306)	A	[47/6]
$C_4H_6O_6$	*meso* tartaric acid				[147-73-9]
		156.9			[83/23]
$C_4H_6O_4$	methylmalonic acid				[516-05-2]
	(341–354)	116.2±0.9	(348)	ME	[00/22]
		117.4±1.9	(298)	ME	[00/22]
		113.2±0.4		C	[83/26]
$C_4H_6S_3$	1,3-dithian-2-thione				[1748-15-8]
	(321–348)	88.6	(335)		[67/5]
		91.4±2.5	(298)		[67/5][70/1]
C_4H_7NO	*cis* 2-butenoic acid amide				[31110-30-2]
	(353–387)	68	(368)		[87/4]
C_4H_7NO	*trans* 2-butenoic acid amide				[625-37-6]
	(363–413)	80	(378)		[87/4]
$C_4H_7NO_2$	diacetamide				[625-77-4]
		73.2±0.8	(298)	C	[65/8][71/23]
$C_4H_7NO_3$	N-acetylglycine				[543-24-8]
	(383–400)	127.0±1.0	(389)	TE,ME	[79/1]
$C_4H_7NO_4$	L-aspartic acid				[56-84-8]
	(370–470)	U 96±4.2	(420)	LE	[77/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
C_4H_8	cyclobutane				[287-23-0]
		36.4	(145)	B	[63/6]
$C_4H_8Cl_2S$	*bis* (2-chloroethyl)sulfide				[505-60-2]
	(263–287)	77.2	(275)		[87/4]
		84.5		B	[63/6][47/4]
$C_4H_8Cl_3O_4P$	(1-hydroxy-2,2,2-trichloroethyl)phosphonic acid dimethyl ester				[52-68-6]
	(293–357)	107	(308)		[87/4]
$C_4H_8N_2O$	tetrahydro-2-pyrimidone				[1852-17-1]
		89.3	(298)		[99/32]
$C_4H_8N_2O_2$	1,2-diacetylhydrazine				[3148-73-0]
	(347–358)	103.1±1.7	(352.5)		[87/4][59/12]
$C_4H_8N_2O_2$	dimethylglyoxime				[95-45-4]
	(331–352)	96.8±1.3	(341.5)	ME	[87/4][56/7]
	(331–352)	97.1±1.3		ME	[56/7][70/1]
					[60/1]
$C_4H_8N_2O_2$	N-acetylglycine amide				[2620-63-5]
		123.5±1.7	(376)	C	[99/12]
		126.3±2.3			[99/12]
		140.2±2.3	(298)	C	[95/33]
	(378–406)	135±3	(392)	TE	[88/6][86/16]
$C_4H_8N_2O_2$	N-nitrosomorpholine				[59-82-2]
		81.6			[88/20]
$C_4H_8N_4O_2$	1,4-dinitrosopiperazine				[140-79-4]
	(325–360)	101.3±8	(343)		[74/11][77/1]
$C_4H_8N_4O_4$	1,4-dinitropiperazine				[4164-37-8]
	(325–360)	111.3±8	(343)		[74/11][77/1]
$C_4H_8N_8O_8$	1,3,5,7-tetranitro-1,3,5,7-tetrazacyclooctane δ-form				[2691-41-0]
	(461–487)	161.9	(474)		[76/8]
δ form	(415–479)	161±0.3	(447)		[78/15]
β form	(371–403)	175.2	(385)		[69/12]
$C_4H_8O_2$	butanoic acid				[107-92-6]
	(238–255)	76.0±1.5	(248)	TE,ME	[78/16]
$(C_4H_8O_2)_2$	butanoic acid dimer				[19496-06-1]
	(238–255)	85±1.5	(248)	TE,ME	[78/16]
$C_4H_8O_2$	1,4-dioxane				[123-91-1]
	(237–272)	35.6	(255)	A	[47/2]
$C_4H_8O_4$	1,3,5,7-tetroxane				[293-30-1]
		79.6±0.2	(298)	C	[77/1][69/8]
		79.5		C	[75/17]
$C_4H_8S_2$	1,3-dithiane				[505-23-7]
	(266–279)	62.9±0.7	(298)	ME	[99/3]
		69.9±0.4	(298)	GC	[89/30]
	(250–271)	72.6	(263)	TE,ME	[83/7]
		52.3±0.8	(298)	C	[71/23]
$C_4H_8S_2$	1,4-dithiane				[505-29-3]
		63.0	(298)		[99/15]
		68.9	(298)		[89/30]
	(253–276)	72.4	(268)	E	[83/7]
C_4H_9I	2-iodo-2-methylpropane				[558-17-8]
	(202–223)	49.8	(212.5)	MG	[87/4][44/2]
C_4H_9Li	butyl lithium				[109-72-8]
	(333–368)	109.7	(350.5)		[87/4][62/12]
C_4H_9ONa	sodium *tert*-butoxide				[865-48-5]
		NA			[90/22]
C_4H_9NO	butanamide				[541-35-5]
	(298–347)	82±4.0	(298)	TE	[00/1]
		86.4±0.4			[75/18][77/1]
	(292–304)	85.4±1.7	(298)	ME	[73/19][77/1]
	(353–373)	87	(363)		[60/1]
	(336–382)	86.4±0.4	(359)	GS	[59/3]
	(298–341)	87.0±0.8	(320)	ME	[59/3]
		79.9			[60/13]
C_4H_9NO	2-methylpropanamide				[563-83-7]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(288–354)	82±4	(298)	TE	[00/01]
	(285–302)	86.1±0.2	(294)	ME	[89/6]
		86.0±0.2	(298)		[89/6]
$C_4H_9NO_2$	2-aminoisobutyric acid				[62-57-7]
	(439–462)	125.8	(450.5)		[87/4][65/1]
	(403–424)	134.2±1.0	(413.5)	TE,ME	[87/4][79/1]
	(439–469)	125.9±0.4	(455)	ME	[65/1][64/16]
$C_4H_9NO_2$	DL-2-aminobutanoic acid				[2835-81-6]
	(400–418)	132±2	(409)	TE,ME	[79/1]
$C_4H_9NO_2$	L-2-aminobutanoic acid				[1492-24-6]
		162.8±0.8	(455)	ME	[65/1][64/16]
$C_4H_9NO_2$	4-aminobutanoic acid				[65-12-2]
	(384–407)	138.9±0.6	(395)	C	[83/24]
		140±2	(298)	C	[83/24]
$C_4H_9NO_3$	DL-threonine				[80-68-2]
	(341–441)	U 96±8	(391)	LE	[77/2]
$C_4H_9NO_3$	2-methyl-2-nitro-1-propanol				[76-39-1]
	plastic phase	59.5±3.0	(319)	C	[94/27]
	crystalline phase	73.2±3.7	(311)	C	[94/27]
$C_4H_9NO_4$	2-methyl-2-nitro-1,3-propanediol				[77-49-6]
	plastic phase	79.3±4.0	(368)	C	[94/27]
	crystalline phase	102.0±5.1	(339)	C	[94/27]
$C_4H_9NO_5$	2-hydroxymethyl-2-nitro-1,3-propanediol				[126-11-4]
	plastic phase	77.3±3.9	(368)	C	[94/27]
$C_4H_9N_3O_2$	1-[2-(ethenyloxy)ethyl]-1-nitrosohydrazine				[216489-98-4]
		112.1±1.9	(298)		[98/36]
C_4H_{10}	*n*-butane				[106-97-8]
		35.9	(107)	B	[66/3]
$C_4H_{10}N_2$	piperazine				[110-85-0]
		72.1	(298)		[98/18]
		65.2	(385)	B	[97/39]
	(279–321)	73.1	(294)		[87/4]
$C_4H_{10}N_2$	trimethylammonium cyanide				
	(219–236)	45	(227.5)		[87/4]
$C_4H_{10}N_2O$	N-propylurea				[927-67-3]
	(332–373)	90.7±1.0	(366)		[90/5][87/5]
$C_4H_{10}N_2O$	N-isopropylurea				[691-60-1]
	(368–411)	100.6±1.3	(389)		[90/5]
		99.7±0.4	(352)		[90/5][86/6]
$C_4H_{10}N_2S$	trimethylthiourea				[2489-77-2]
		83±3.0	(333)	TE	[94/20]
$C_4H_{10}O$	*tert*-butyl alcohol				[75-65-0]
	(253–298)	51.3	(275)	A	[47/2]
$C_4H_{10}O_2S$	diethyl sulfone				[597-35-3]
		86.2±2.5			[U/3][70/1]
$C_4H_{10}O_4$	*meso*-erythritol				[149-32-6]
		157	(298)	B	[90/7]
		135.1±2.2			[50/1][60/1]
					[70/1]
$C_4H_{11}NO$	2-methyl-2-amino-1-propanol				[124-68-5]
	plastic phase	86.5±4.3	(368)	C	[94/27]
	crystalline phase	114.5±5.7	(339)	C	[94/27]
$C_4H_{11}NO_2$	diethanolamine				[111-42-2]
		105.9±2.	(298)	C	[82/5]
C_5Cl_6	hexachlorocyclopentadiene				[77-47-4]
		73.6	(283)	B	[63/6][58/5]
C_5F_{10}	decafluorocyclopentane				[376-77-2]
	(229–281)	32.1	(266)		[87/4][67/21]
		38.2	(115)		[63/6][51/8]
					[56/9]
C_5F_{12}	*n*-dodecafluoropentane				[678-26-2]
		43.7	(145)		[63/6][51/8]
					[56/9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
C_5N_4	tetracyanomethane				[24331-09-7]
		61.1±8.8	(298)	DSC	[73/3]
$C_5H_2F_6N_2$	3,5-*bis*(trifluoromethyl)pyrazole				[14704-41-7]
		69.0±0.6	(266)	ME	[91/21]
$C_5H_2N_4O_6$	2,4,6-trinitropyridine				[78013-51-1]
	(335–357)	101.7±2.9			[95/31]
$C_5H_2N_4O_7$	2,4,6-trinitropyridine N-oxide				[25242-76-6]
	(377–403)	106.3±2.9			[95/31]
$C_5H_3Br_2N$	2,5-dibromopyridine				[624-28-2]
		82.1±2.2	(298)	C	[97/16]
$C_5H_3Br_2N$	2,6-dibromopyridine				[626-05-1]
		85.6±3.0	(298)	C	[97/16]
$C_5H_3Cl_2N$	2,3-dichloropyridine				[2402-77-9]
		73.5±3.1	(298)	C	[97/17]
$C_5H_3Cl_2N$	2,5-dichloropyridine				[16110-09-1]
		67.1±2.0	(298)	C	[97/17]
$C_5H_3Cl_2N$	2,6-dichloropyridine				[2402-78-0]
		72.0±1.6	(298)	C	[97/17]
$C_5H_3Cl_2N$	3,5-dichloropyridine				[2457-47-8]
		67.3±1.9	(298)	C	[97/17]
$C_5H_3NO_3$	5-nitro-2-furancarboxaldehyde				[698-63-5]
		75.3±2.1			[80/28][86/5]
$C_5H_3N_3$	2,2-dicyanopropionitrile				[10359-20-3]
	(293–333)	73.9±0.5	(313)	T	[94/19]
$C_5H_4N_2O_3$	4-nitropyridine-N-oxide				[1124-33-0]
		108.9±0.3	(298)	C	[95/3]
	(311–335)	89.1±2.5			[95/31]
$C_5H_4N_4$	purine				[120-73-0]
		NA			[74/7]
$C_5H_4N_4$	1,2,4-triazolo[1,5a]pyrimidine				[275-02-5]
		86.9	(419)		[97/39]
$C_5H_4N_4O$	hypoxanthine				[68-94-0]
	(423–473)	158.1±1.6	(448)		[75/14]
$C_5H_4N_4S$	6-mercaptopurine				[6112-76-1]
	(413–458)	148.5±1.5	(435)		[75/14]
$C_5H_4O_2S$	2-thenoic acid				[527-72-0]
	(315–323)	97.1	(319)	E	[53/12][60/1]
$C_5H_4O_3$	2-furoic acid				[88-14-2]
	(317–328)	108.4±2.2		ME	[53/1][60/1]
					[70/1]
$C_5H_5ClN_2O_2$	1-methyl-6-chlorouracil				[31737-09-4]
	(417–465)	108.8±8		HSA	[78/17]
$C_5H_5ClN_2O_2$	3-methyl-6-chlorouracil				[4318-56-3]
	(444–493)	104.6±6		HSA	[78/17]
$C_5H_5FN_2O_2$	1-methyl-5-fluorouracil				[155-16-8]
	(381–423)	116.5±1.9	(402)	TE	[02/1]
	(480–515)	125.5±8		HSA	[78/17]
$C_5H_5FN_2O_2$	3-methyl-5-fluorouracil				[4840-69-1]
	(465–487)	79.5±17		HSA	[78/17]
$C_5H_5F_3N_2$	3(5)-trifluoromethyl-5(3)-methylpyrazole				[10010-93-2]
		78.2±0.8	(297)	ME	[91/21]
C_5H_5NO	2-hydroxypyridine				[142-08-5]
		86.6±1.3	(298)	C	[82/15][86/5]
C_5H_5NO	3-hydroxypyridine				[109-00-2]
		88.3±1.3	(298)	C	[82/15][86/5]
C_5H_5NO	4-hydroxypyridine				[626-64-2]
		118.6±5.2	(298)	C	[92/3]
		103.8±1.7	(298)	C	[82/15][86/5]
C_5H_5NO	pyridine N-oxide				[694-59-7]
		79.3±1.0	(298)		[88/19]
$C_5H_5NO_2$	3-hydroxypyridine N-oxide				[6602-28-4]
	(345–392)	121.8±4.4	(298)	ME	[98/12]
$C_5H_5NO_2$	pyrrole-2-carboxylic acid				[634-97-9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(350–354)	126.8	(352)	ME	[53/12][60/1]
$C_5H_5NO_2$	N-methylmaleimide				[930-88-1]
	(276–289)	75.3±0.5	(282)	ME	[97/12]
		73.3±0.5	(298)		[97/12]
$C_5H_5N_3O$	pyrazine carboxamide				[98-96-4]
	(353–383)	87.9	(368)	ME	[87/4][60/16]
					[59/13]
$C_5H_5N_5$	adenine				[73-24-5]
	(400–438)	140.4		ME	[00/17]
	(448–473)	109.2	(460.5)		[87/4]
		126.3		LE	[75/16][74/8]
		127.2		QR	[84/38][00/17]
		108.7±8		ME	[65/2][70/1]
$C_5H_5N_5O$	guanine				[73-40-5]
		186.2		LE	[75/16][74/8]
$C_5H_5N_7O_{14}$	1,1,1,3,5,5,5-heptanitropentane				[20919-99-7]
		111.7	(298)		[99/35]
$C_5H_6F_3NO_3$	glycine, N-(trifluoroacetyl) methyl ester				[383-72-2]
	(293–463)	57.3	(308)		[87/4][60/20]
$C_5H_6N_2$	dimethylmalonodinitrile				[7321-55-3]
		62.0±0.7	(298)		[90/28]
$C_5H_6N_2$	2-aminopyridine				[504-29-0]
		76.5±0.4	(298)	C	[98/17]
		38.6±1.9		DSC	[85/13]
		78.7±0.8	(298)	C	[84/6]
$C_5H_6N_2$	3-aminopyridine				[462-08-8]
		80.7±0.3	(298)	C	[98/17]
		84.0±1.4	(298)	C	[84/6]
$C_5H_6N_2$	4-aminopyridine				[504-24-5]
		87.1±0.4	(298)	C	[98/17]
		53.8±0.8		DSC	[85/13]
		88.1±1.1	(298)	C	[84/6]
$C_5H_6N_2O_2$	1-methyluracil				[615-77-0]
	(343–428)	121.7±4.0	(439)	TE	[00/2]
	(378–418)	112.5±2.6	(398)	QR	[80/19]
	(435–480)	104.6±8	(457)	HSA	[78/17]
$C_5H_6N_2O_2$	3-methyluracil				[608-34-4]
	(344–419)	118.8±3.0	(382)	TE	[00/2]
	(438–498)	75.3±8	(463)	HSA	[78/17]
		69.5±1.2		ME	[72/32][00/2]
$C_5H_6N_2O_2$	5-methyluracil (thymine)				[65-71-4]
	(383–438)	125.7±3.6	(411)	ME	[84/12]
		131.3±4.0	(298)		[84/12]
	(378–428)	124.4±1.3	(403)	QR	[80/19]
		138±10	(298)	TE	[80/9]
		134.1±4.2	(298)	C	[77/13]
		124.3		LE	[75/16][74/8]
$C_5H_6N_2O_2$	6-methyluracil				[626-48-2]
	(426–503)	131	(298)		[80/13]
$C_5H_6O_3$	glutaric anhydride				[108-55-4]
	(298–320)	85.9±1.6	(309)	ME	[90/4]
		86.1±1.6	(298)		[90/4]
C_5H_7N	N-methylpyrrole				[96-54-8]
		NA			[41/3]
$C_5H_7NO_2$	glutarimide				[1121-89-7]
	(317–340)	93.6±1.6	(329)	ME	[90/4]
		94.1±1.6	(298)		[90/4]
$C_5H_7NO_2$	N-methylsuccinimide				[1121-07-9]
	(280–298)	80.6±0.3	(289)	ME	[97/12]
		80.1±0.3	(298)		[97/12]
$C_5H_7NO_3$	(*dl*)-5-oxoproline				[149-87-1]
	(394–416)	133.2±1	(405)	TE,ME	[79/1]
$C_5H_7N_3O$	1-methylcytosine				[1122-47-0]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(455–487)	141.2±0.6		GS	[98/37]
	(423–443)	141.8±8.8	(433)	ME	[84/12]
		149.1±9.0	(298)		[84/12]
$C_5H_7N_3O$	3-methylcytosine				[4776-08-3]
	(487–526)	150.6		HSA	[65/2]
$C_5H_7N_3O$	3,5-dimethyl-4-nitrosopyrazole				[1122-04-9]
		102.9±3.0	(298)	C	[01/4]
$C_5H_7N_3O_2$	1-methyl-N-hydroxycytosine				[20541-50-8]
		126.7±1.5			[98/37]
$C_5H_8Br_4$	pentaerythrityl tetrabromide				[3229-00-3]
	(384–434)	84	(399)	GSM	[87/4][41/1]
$C_5H_8NO_2$	5-amino-3,4-dimethylisoxazole				[19947-75-2]
		87.9±2.5			[73/21][77/1]
$C_5H_8N_2$	2,3-diazabicyclo[2.2.1]hept-2-ene				[2721-32-6]
		43.9±2.1			[74/17][77/1]
		55.3±0.6	(298)		[76/12]
$C_5H_8N_2$	3,5-dimethylpyrazole				[67-51-6]
		83.4±2.4	(298)	C	[01/4]
		83.3±0.2	(301)	ME	[91/21]
$C_5H_8N_2$	2-ethylimidazole				[1072-62-4]
	(303–321)	89.2±0.4	(312)	ME	[92/25]
		89.6±0.4	(298)		[92/25]
$C_5H_8N_4O_{12}$	pentaerythritol tetranitrate				[78-11-5]
	(328–405)	150.4±1.3	(298)	ME	[78/15]
		146±12			[71/34][78/15]
		U121.3		ME	[69/3]
	(370–411)	151.9±2.1			[53/6][60/1]
					[70/1]
C_5H_8OS	tetrahydro-4*H*-thiopyran-4-one				[1072-72-6]
		71.7±1.7	(317)	I	[72/15]
		72.6±1.7	(298)		[72/15][77/1]
$C_5H_8O_2$	methyl methacrylate				[80-62-6]
	(194–223)	60.7	(205)		[52/5][60/1]
$C_5H_8O_2S$	2,5-dihydro-2-methyl-thiophene-1,1-dioxide				[6007-71-2]
		60.7±2.5			[69/11][77/1]
$C_5H_8O_2S$	2,5-dihydro-3-methyl-thiophene-1,1-dioxide				[1193-10-8]
		64.0±2.5			[69/11][77/1]
$C_5H_8O_4$	1,5-pentanedioic acid (glutaric acid)				[110-94-1]
	(348–363)	117.0±1.2	(356)	ME	[99/10]
		119.8±1.2	(298)		[99/10]
	(292–320)	U52.6	(306)	A	[47/6]
$C_5H_8O_4$	dimethylmalonic acid				[595-46-0]
	(347–363)	110.2±1.0	(355)	ME	[00/22]
		111.7±2.1	(298)	ME	[00/22]
$C_5H_8O_4$	ethylmalonic acid				[601-75-2]
	(347–362)	111.2±1.2	(355)	ME	[00/22]
		112.8±2.2	(298)	ME	[00/22]
		105.5±0.5		C	[83/26]
C_5H_9NO	*cis* 2-pentenoic acid amide				[15856-96-9]
	(323–333)	106.5	(328)		[87/4]
C_5H_9NO	*trans* 2-pentenoic acid amide				[15856-96-9]
	(353–383)	57.9	(368)		[87/4]
C_5H_9NO	δ-valerolactam				[675-20-7]
	(293–312)	74.5	(303)		[53/5][60/1]
					[60/21]
$C_5H_9NO_2$	L-(*l*)-proline				[147-85-3]
	(396–416)	127.4±1	(406)	TE,ME	[79/1]
	(380–420)	149±4	(400)	C	[78/4]
	(323–423)	U 50±8	(373)	LE	[77/2]
$C_5H_9NO_3$	*trans* 4-hydroxy-L-proline				[51-35-4]
	(461–481)	162.6±2	(471)	TE,ME	[79/1]
$C_5H_9NO_4$	L-glutamic acid				[56-86-0]
	(353–453)	U 121±34	(403)	LE	[77/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
C_5H_{10}	cyclopentane				[287-92-3]
		42.6	(122)	B	[63/6]
$C_5H_{10}N_2O_2$	N-acetylglycine, N-methylamide				[7606-79-3]
	(348–363)	97.8	(355.5)		[87/4][55/7]
$C_5H_{10}N_2O_2$	N-acetyl-L-alanine amide				[15962-47-7]
		115.0±1.2	(376)	C	[99/12]
		118.1±1.6	(298)		[99/12]
	(366–410)	115±3	(388)	TE	[88/6][86/16]
$C_5H_{10}O_2$	2,2-dimethylpropanoic acid				[75-98-9]
	(278–303)	62.3±0.6	(291)	GS	[00/20]
		62.1±0.6	(298)	GS	[00/20]
$C_5H_{10}O_5$	1,3,5,7,9-pentoxecane				[16528-92-0]
		87.9±0.5	(298)	C	[74/16]
$C_5H_{10}O_5$	D-xylose				[58-86-6]
	(370–395)	158.0±3.1	(382)	ME	[99/1]
$C_5H_{11}NO$	pentanamide				[626-97-1]
	(333–374)	89.3±0.4		GS	[59/3][70/1]
	(353–373)	89.1			[60/1]
$C_5H_{11}NO$	2,2-dimethylpropanamide				[759-10-9]
	(298–359)	89±2.0	(298)	TE	[00/1]
	(288–306)	86.6±0.4	(298)	ME	[89/6]
$C_5H_{11}NO_2$	(*dl*) 2-aminopentanoic acid (DL-norvaline)				[760-78-1]
	(439–461)	120	(450)	ME	[87/4][65/1]
		121.1±0.4	(455)	ME	[65/1][64/16]
$C_5H_{11}NO_2$	butyl carbamate				[592-35-8]
	(292–316)	94.1±8		GS	[59/4]
$C_5H_{11}NO_2$	DL-valine				[516-06-3]
	(320–420)	U 79.5±8	(370)	LE	[77/2]
$C_5H_{11}NO_2$	L-valine				[72-18-4]
		162.8±8	(455)	ME	[65/1][64/16]
$C_5H_{11}NO_2$	5-aminopentanoic acid				[660-88-8]
	(384–394)	141.8±0.5	(389)	C	[83/24]
		144±3	(289)	C	[83/24]
$C_5H_{11}NO_2S$	DL-methionine				[59-51-8]
	(363–463)	U 134±8	(413)	LE	[77/2]
$C_5H_{11}NO_2S$	L-(*d*)-methionine				[63-68-3]
	(463–485)	125±0.8	(474)	ME	[87/4][65/1] [64/16]
		164±4	(298)	C	[81/5]
C_5H_{12}	2,2-dimethylpropane				[463-82-1]
	(223–256)	28.2	(241)		[87/4]
		33.2			[63/6][36/1]
	(171–249)	23.9	(210)	A	[47/2]
		22.0	(298)	H	
	(230–252)	22.8	(241)	A	[33/6]
C_5H_{12}	*n*-pentane				[109-66-0]
		42.0	(143)	B	[63/6]
$C_5H_{12}N_2O$	1,3-diethylurea				[623-76-7]
	(321–379)	96.8±0.9	(361)	TE	[90/5][87/5]
	(384–590)	NA		ME	[86/19]
$C_5H_{12}N_2O$	N-butylurea				[592-31-4]
		99±4			[87/6]
		103.2±0.8	(352)		[86/6][90/5]
$C_5H_{12}N_2O$	N-isobutylurea				[592-17-6]
		101.1±1.1	(377)	TE	[90/5]
		106.0±0.5	(355)		[90/5][86/6]
$C_5H_{12}N_2O$	N-*tert*-butylurea				[1118-12-3]
		101.6±0.7	(379)	TE	[90/5]
		100.7±0.3	(352)		[90/7][86/6]
$C_5H_{12}N_2S$	diethylthiourea				[26914-14-7]
		121.7±3	(298)	B,HA	[00/23]
		120.2±3.0	(298)	B	[94/17]
$C_5H_{12}N_2S$	tetramethylthiourea				[2782-91-4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		84.5±3	(298)	ME	[00/23]
		84.0	(298)		[94/20]
		83.0±0.5	(298)	C	[85/5]
		83.0±0.2	(298)	C	[82/7]
$C_5H_{12}O_2$	neopentyl glycol				[126-30-7]
	plastic phase	75.5±3.8	(368)	C	[94/3][94/27]
	crystalline phase	87.6±4.4	(350)	C	[94/3][94/27]
$C_5H_{12}O_3$	1,1,1-*tris*(hydroxymethyl)ethane				[77-85-0]
	plastic phase	84.2±4.2	(319)	C	[94/27]
	crystalline phase	109.2±5.5	(311)	C	[94/27]
$C_5H_{12}O_2S$	*tert*-butyl methyl sulfone				[14094-12-3]
		82.4±2.5			[U/3][70/1]
$C_5H_{12}O_4$	pentaerythritol				[115-77-5]
		131.3±6.6	(403)	C	[94/27]
	(418–455)	161±1.0	(437)	TE	[90/7]
		163	(298)		[90/7]
(tetragonal)	(397–410)	131.4		ME	[51/3][60/1]
	(379–408)	143.9±0.8	ME		[53/4][60/1]
$C_5H_{12}O_5$	adonitol				[488-81-3]
		161	(298)	B	[90/7]
$C_5H_{12}O_5$	D-arabitol				[488-82-4]
		160	(298)	B	[90/7]
$C_5H_{12}O_5$	xylitol				[87-99-0]
		161	(298)	B	[90/7]
$C_6Cl_4O_2$	tetrachloro-1,4-benzoquinone				[118-75-2]
	(333–356)	98.7±8.3		QF	[27/2][60/1]
					[70/1]
C_6Cl_6	hexachlorobenzene				[118-74-1]
	(258–313)	105			[94/39]
	(253–303)	77.4±0.8	(278)	GS	[94/1]
		89.6±0.2	(337)	C	[91/2]
		90.5±0.2	(298)	C	[91/2]
	(461–506)	85.5			[89/32]
	(387–502)	62.7	(402)		[87/4]
	(314–373)	94.7	(344)	GS	[86/18][97/40]
	(288–318)	101.3	(303)	GS	[80/36]
	(312–337)	79.5±12			[77/10]
	(369–397)	92±8.2		RG	[49/3][70/1]
C_6F_6	hexafluorobenzene				[392-56-3]
	(215–278)	49.2	(263)		[87/4][65/22]
	(238–268)	49.8	(253)	IPM,A	[79/33]
		46.0	(316)	B	[65/10]
C_6F_{12}	dodecafluorocyclohexane				[355-68-0]
	(252–326)	36.4	(267)		[87/4][67/21]
	(293–333)	36.2	(313)		[57/5]
C_6N_2	dicyanodiacetylene	(dicyanobutadiyne)			[16419-78-6]
	(294–335)	34.4	(309)		[87/4]
	(295–335)	35.9	(315)		[57/4]
C_6N_4	tetracyanoethylene				[670-54-2]
	(290–312)	84.3	(302)	TE,ME	[83/7]
	(333–371)	81.2±5.9	(352)	MG	[63/4][70/1]
					[87/4]
		78.0		GS	[58/14]
$C_6N_6O_3$	benzotrifurazan				
	(303–333)	95.8±3.8			[99/44]
$C_6N_6O_6$	benzotrifuroxan				
	(363–433)	172.0±2.5			[99/44]
$C_6HCl_3O_2$	trichloro-1,4-benzoquinone				[634-85-5]
	(301–327)	88.7±8.3		QF	[27/2][60/1]
					[70/1]
C_6HCl_5	pentachlorobenzene				[608-93-5]
		87.1±0.4	(298)	C	[91/2]
C_6HCl_5O	pentachlorophenol				[87-86-5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
		67.4±2.1			[U/4][70/1]
C_6HF_5O	pentafluorophenol				[771-61-9]
	(273–299)	67.4±1.7		GS	[69/5][70/1]
$C_6H_2ClN_3O_6$	1,3,5-trinitrochlorobenzene				[88-88-0]
	(341–363)	103.0	(352)	ME	[50/2]
$C_6H_2Cl_2O_2$	2,6-dichloro-1,4-benzoquinone				[697-91-6]
	(274–315)	69.9±8.3		QF	[27/2][60/1]
					[70/1]
$C_6H_2Cl_4$	1,2,3,4-tetrachlorobenzene				[634-66-2]
		78.8±0.2	(298)	C	[91/2]
$C_6H_2Cl_4$	1,2,4,5-tetrachlorobenzene				[95-94-3]
		83.2±0.3	(298)	C	[91/2]
$C_6H_2Cl_4$	1,2,3,5-tetrachlorobenzene				[634-90-2]
		79.6±0.3	(298)	C	[91/2]
$C_6H_2Cl_4O_2$	tetrachlorohydroquinone				[87-87-6]
	(298–359)	89	(313)		[87/4]
	(333–356)	88.7		QF	[27/2][60/1]
$C_6H_3Br_3O$	2,4,6-tribromophenol				[118-79-6]
		97.6±1.1			[87/3]
$C_6H_3ClN_2O_2$	5-chlorobenzofurazan-1-oxide				[17348-69-5]
		81.2±1.8	(298)	C	[96/6]
$C_6H_3ClO_2$	chlorobenzoquinone				[695-99-8]
	(264–289)	69.0±8.3	(276)	QF	[27/2][60/1]
					[70/1]
$C_6H_3Cl_3$	1,2,3-trichlorobenzene				[87-61-6]
	(258–313)	72.7			[94/39]
		75.1±0.75	(298)		[85/8]
	(289–303)	65.7	(296)	RG	[49/7][60/1]
$C_6H_3Cl_3$	1,2,4-trichlorobenzene				[120-82-1]
	(279–298)	62.3	(289)	RG	[49/7][60/1]
$C_6H_3Cl_3$	1,3,5-trichlorobenzene				[108-70-3]
		72.7±0.5	(298)		[85/8]
	(282–301)	56.5	(291)	RG	[49/7][60/1]
$C_6H_3Cl_3O_2$	trichlorohydroquinone				[608-94-6]
	(298–336)	101.5	(313)		[87/4]
	(314–335)	101.3	(324)	QF	[27/2][60/1]
$C_6H_3N_3O_4$	4-nitrobenzofurazan-1-oxide				[18771-85-2]
		97.3±1.6	(298)	C	[96/6]
$C_6H_3N_3O_6$	1,3,5-trinitrobenzene				[99-35-4]
	(313–395)	107.3±0.6	(298)	ME	[78/15]
	(353–395)	99.6±2.1	(374)	ME	[50/2][70/1]
$C_6H_3N_3O_7$	picric acid				[88-89-1]
	(314–406)	105.1±1.6	(298)	ME	[78/15]
$C_6H_3N_3O_8$	2,4,6-trinitroresorcinol				[82-71-3]
	(325–436)	120.8±1.1	(298)	ME	[78/15]
C_6H_4BrCl	1,4-bromochlorobenzene				[106-39-8]
		69.3±0.1	(298)	DM	[00/31]
	(279–355)	69.3±0.4	(298)	ME,TE,DM	[98/13]
	(294–337)	67.9±0.8	(316)		[61/2]
C_6H_4BrI	1,4-bromoiodobenzene				[589-87-7]
		78.5±0.2	(298)	DM	[00/31]
	(279–355)	78.5±0.4	(298)	ME,TE,DM	[98/13]
$C_6H_4BrNO_2$	4-bromo-1-nitrobenzene				[586-78-7]
	(293–303)	88.3	(303)	ME	[87/4][25/3]
$C_6H_4Br_2$	1,4-dibromobenzene				[106-37-6]
		74.2±0.1	(298)	ME	[00/31]
	(298–354)	73.2	(313)		[87/4]
	(278–353)	73.3±0.4	(326)		[61/2]
	(228–347)	73.8	(288)		[59/5]
	(248–303)	59.8	(298)	ME,GS	[40/1][60/1]
$C_6H_4Br_3N$	2,4,6-tribromoaniline				[147-82-0]
		101.1±1.1			[87/3]
C_6H_4ClI	1,4-chloroiodobenzene				[637-87-6]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		71.9±0.2	(298)	DM	[00/31]
	(259–320)	71.9±0.4	(298)	ME, TE, DM	[98/13]
	(303–323)	61.1±0.6			[53/8][60/1]
$C_6H_4ClNO_2$	3-chloro-1-nitrobenzene				[121-73-3]
	(275–286)	74.7±1.7			[35/1][38/1]
					[60/1]
$C_6H_4ClNO_2$	4-chloro-1-nitrobenzene				[100-00-5]
	(283–303)	83.2	(293)	ME	[87/4][25/3]
$C_6H_4Cl_2$	1,4-dichlorobenzene				[106-46-7]
		64.8±0.2	(298)	DM	[00/31]
	(258–313)	53.1			[94/39]
		65.2±2.0	(298)	C	[89/25]
	(303–423)	65.4	(313)	GS	[85/4]
		65.7			[81/12]
	(293–311)	64.8±0.8	(303)		[61/2][70/1]
	(311–325)	63±0.4	(318)		[61/2]
	(248–303)	56.9	(275)	ME	[40/1][60/1]
$C_6H_4Cl_2O$	2,3-dichlorophenol				[576-24-9]
		71.7±2.2	(298)	C	[94/5]
$C_6H_4Cl_2O$	2,4-dichlorophenol				[120-83-2]
		70.1±1.1	(298)	C	[94/5]
$C_6H_4Cl_2O$	2,5-dichlorophenol				[583-78-8]
		73.6±2.1	(298)	C	[94/5]
$C_6H_4Cl_2O$	2,6-dichlorophenol				[87-65-0]
		75.8±1.1	(298)	C	[94/5]
$C_6H_4Cl_2O$	3,4-dichlorophenol				[95-77-2]
		81.3±2.3	(298)	C	[94/5]
$C_6H_4Cl_2O$	3,5-dichlorophenol				[591-35-5]
		82.8±1.1	(298)	C	[94/5]
	(273–295)	71.8	(284)		[87/4]
$C_6H_4Cl_2O_2$	2,6-dichlorohydroquinone				[20103-10-0]
	(324–345)	92.0±8.3		QF	[27/2][60/1]
					[70/1]
$C_6H_4INO_2$	3-iodo-1-nitrobenzene				[645-00-1]
	(295–306)	83.2±1.2	(300)		[35/1][38/1]
					[60/1]
$C_6H_4I_2$	1,4-diiodobenzene				[624-38-4]
	(372–401)	63.4	(386.5)		[87/4]
$C_6H_4N_2$	2-cyanopyridine				[100-70-9]
		70.7±1.2	(298)	C	[84/6]
$C_6H_4N_2$	3-cyanopyridine				[100-54-9]
		72.1±1.8	(298)	C	[84/6]
		79.0		DSC	[89/22]
$C_6H_4N_2$	4-cyanopyridine				[100-48-1]
		73.2±0.6	(298)	C	[84/6]
		75.6		DSC	[89/22]
$C_6H_4N_2O$	3-cyanopyridine N-oxide				[14906-64-0]
	(345–392)	101.9±2.0	(298)	ME	[98/12]
$C_6H_4N_2O$	4-cyanopyridine N-oxide				[14906-59-3]
	(345–392)	104.4±4.3	(298)	ME	[98/12]
$C_6H_4N_2O$	benzofurazan				[273-09-6]
		64.4±1.6	(298)	C	[90/29]
		64.9	(298)		[80/6]
$C_6H_4N_2O_2$	benzofurazan N-oxide				[480-96-6]
		79.6±1.7	(298)	C	[90/29]
$C_6H_4N_2O_3$	1-nitro-2-nitrosobenzene (dimer)				[612-29-3]
	(323–343)	95.5	(333)		[87/4][74/34]
$C_6H_4N_2O_4$	1,2-dinitrobenzene				[528-29-0]
		95.5±0.9	(298)		[97/30]
	(343–377)	82.9	(358)	TE	[87/4][76/1]
	(343–397)	81.8±2.3	(370)	TE	[76/1]
	(343–397)	87.9±2.1	(298)	TE	[76/1]
	(328–338)	86.6±1.2	(333)		[35/1][38/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
					[60/1]
$C_6H_4N_2O_4$	1,3-dinitrobenzene				[99-65-0]
	(335–356)	76.1	(345.5)		[87/4]
	(332–383)	84.2±1.9	(357)	TE	[76/1]
	(332–383)	87.0±0.8	(298)	TE	[76/1]
	(315–329)	81.1±1.7	(323)		[35/1][38/1]
					[60/1][70/1]
$C_6H_4N_2O_4$	1,4-dinitrobenzene				[100-25-4]
		94.3±0.7	(298)		[97/30]
	(339–398)	93.1±2.3	(368)	TE	[76/1]
	(339–398)	96.2±2.5	(298)	TE	[76/1]
	(345–368)	89.1±1.7	(357)		[35/1][38/1]
					[60/1]
$C_6H_4N_2O_5$	2,3-dinitrophenol				[66-56-8]
	(303–343)	96.6	(323)		[58/1]
$C_6H_4N_2O_5$	2,4-dinitrophenol				[51-28-5]
	(293–333)	104.6±4.2	(313)		[58/1][70/1]
$C_6H_4N_2O_5$	2,5-dinitrophenol				[329-71-5]
	(278–333)	93.4	(306)		[58/1]
$C_6H_4N_2O_5$	2,6-dinitrophenol				[573-56-8]
	(293–333)	112.1±4.2	(313)		[58/1][70/1]
$C_6H_4N_2O_5$	3,4-dinitrophenol				[577-71-9]
	(328–383)	123.5	(355)		[58/1]
$C_6H_4N_2S$	2,1,3-benzothiadiazole				[273-13-2]
		70.73±0.2	(298)	C	[98/2]
$C_6H_4N_4O_6$	2,4,6-trinitroaniline				[489-98-5]
	(328–371)	115.9	(343)	LE	[87/4][69/12]
	(326–449)	125.3±0.8	(298)	ME	[78/15]
$C_6H_4O_2$	1,4-benzoquinone				[106-51-4]
		68.0±0.5	(262)	ME,TE	[81/4]
		62.8±3.3			[56/5][77/1]
		68.5±0.6			[53/10]
	(260–278)	62.8	(269)	QF	[27/2]
$(C_6H_4O_2)$–$(C_6H_6O_2)$	quinhydrone (quinone-hydroquinone)				[106-34-3]
	(317–334)	89.1	(325.5)		[87/4]
	(300–325)	88.6±1	(313)	ME,TE	[81/4]
		U 181.2			[53/10][60/1]
		NA			[51/6]
$C_6H_4O_5$	furan-2,5-dicarboxylic acid				[3238-40-2]
	(378–402)	121.3	(391)	TE,ME	[83/5]
$C_6H_4S_4$	tetrathiofulvalene				[31366-25-3]
		61.0		TGA	[95/35]
		95.3±1	(345)	TE,ME	[80/22]
	(341–361)	92±6.3	(351)	HSA	[79/7]
$(C_6H_4S_4)$–$(C_{12}H_4N_4)$	(tetrathiofulvalene)-(7,7,8,8-tetracyanoquinodimethane) (TTF–TCNQ)				[40210-84-2]
		130±2	(410)	TE,ME	[80/22]
C_6H_5BrCl	1-bromo-4-chlorobenzene				[106-39-8]
	(250–335)	69.3±0.4	(298)	TE,ME,DM	[98/13]
		69.1±0.2	(298)		[98/13]
C_6H_5BrO	4-bromophenol				[106-41-2]
	(260–302)	87.3±0.4	(298)	ME	[71/8]
C_6H_5ClO	3-chlorophenol				[108-43-0]
		53.1			[38/1][60/1]
					[70/1]
C_6H_5ClO	4-chlorophenol				[106-48-9]
	(252–293)	60.8	(278)		[87/4]
		51.9			[38/1][60/1]
					[70/1]
$C_6H_5ClO_2$	chlorohydroquinone				[615-67-8]
	(306–334)	102.9±8.3	(320)	QF	[27/2][60/1]
					[70/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
C_6H_5I	iodobenzene				[591-50-4]
	(243–255)	43.1			[60/1]
	(248–303)	40.0	(275)	ME	[40/1]
C_6H_5NO	nitrosobenzene (dimer)				[586-96-9]
	(297–339)	85.1	(312)		[87/4][74/34]
		80.8			[30/3]
$C_6H_5NO_2$	2-pyridinecarboxylic acid				[98-98-6]
		91.0±0.5	(329)	C	[99/9]
		92.7±0.5	(298)		[99/9]
	(345–392)	98.0±2.3	(298)	ME	[98/12]
$C_6H_5NO_2$	3-pyridinecarboxylic acid				[59-67-6]
	(352–360)	123.9±3.7	(298)	ME	[00/3]
		101.1±0.6	(362)	C	[99/9]
		105.2±0.6	(298)		[99/9]
		123.4±1.2	(298)	C	[84/6]
$C_6H_5NO_2$	4-pyridinecarboxylic acid				[55-22-1]
		107.7±0.7	(362)	C	[99/9]
		111.3±0.6	(298)		[99/9]
	(345–392)	113.9±4.7	(298)	ME	[98/12]
$C_6H_5NO_3$	2-nitrophenol				[88-75-5]
		73.3	(298)	C	[94/28]
	(273–292)	54.8	(282.5)		[87/4]
	(298–310)	73.2±1.3			[35/1][38/1]
					[60/1]
$C_6H_5NO_3$	3-nitrophenol				[554-84-7]
		91.2±0.5	(298)	C	[94/28]
		98.5±0.6	(321)	ME	[92/13]
		100.2±0.6	(298)		[92/13]
	(305–334)	76.2	(319.5)		[87/4]
	(325–336)	91.6±1.7			[35/1][38/1]
					[60/1]
$C_6H_5NO_3$	4-nitrophenol				[100-02-7]
		92.4	(298)	C	[94/28]
	(305–352)	98.8±1	(298)	ME	[71/8]
	(339–351)	91.2±1.7			[35/1][38/1]
					[60/1]
$C_6H_5NO_3$	pyridine-2-carboxylic acid N-oxide				[824-40-8]
	(345–392)	94.4±4.0	(298)	ME	[98/12]
$C_6H_5NO_3$	pyridine-3-carboxylic acid N-oxide				[2398-81-4]
		152.3±1.9	(298)	ME	[95/3][95/11]
$C_6H_5NO_3$	pyridine-4-carboxylic acid N-oxide				[13602-12-5]
	(345–392)	136.1±1.2	(298)	ME	[98/12]
$C_6H_5NO_4$	2-nitro-1,3-dihydroxybenzene				[601-89-8]
	(253–293)	74.5	(273)		[58/1]
$C_6H_5NO_4$	4-nitrocatechol				[3316-09-4]
		121.1±1.4		C	[86/3]
$C_6H_5NO_5$	methyl 5-nitro-2-furancarboxylate				[1874-23-3]
		104.2±2.1			[80/28][86/5]
$C_6H_5N_3$	1-*H*-benzotriazole				[95-14-7]
		98.2±0.7	(298)	C	[99/8]
	(327–345)	98.8	(336)	ME	[89/8]
	(327–345)	99.0±0.5	(298)	ME	[89/8]
		97.9		ME	[61/3]
$C_6H_5N_5O_6$	1,3-diamino-2,4,6-trinitrobenzene				[28930-29-2]
	(335–382)	140	(350)	LE	[87/4][69/12]
		143.5	(298)		[78/15]
C_6H_6	benzene				[71-43-2]
	(258–273)	41.7			[94/39]
	(223–279)	45.2	(264)	BG	[87/4][76/23]
		44.6	(298)	H	
		45.1	(278)		[84/21]
		44.8	(298)	H	
	(183–197)	44.4	(298)	TE,ME	[80/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		53.9±0.8	(193)		[77/4]
		49.4±0.4	(193)		[77/4]
	(221–268)	45.6	(279)	MM	[74/22]
		44.1	(261)		[60/1]
		43.1	(229)		[60/1]
		44.6	(279)		[56/8]
	(263–270)	46.6	(282)	A	[47/2]
		44.6	(273)		[36/3][74/22]
	(184–200)	U33.2	(192)		[33/4]
	(214–238)	43.3	(226)	A	[13/1]
C_6H_6	2,4-hexadiyne				[2809-69-0]
	(282–333)	47±2	(307)	MM	[82/11]
	solid phase transition	1.0	(118)		[82/11]
C_6H_6ClN	4-chloroaniline				[106-47-8]
	(283–303)	90.7	(293)	ME	[87/4][25/3]
$C_6H_6Cl_6$	α-hexachlorocyclohexane (melting point 160 °C)				[319-84-6]
	(313–363)	95.7	(328)		[87/4][60/1]
	(324–344)	92.9	(334)	TE	[47/1]
$C_6H_6Cl_6$	β-hexachlorocyclohexane (melting point 314 °C)				[319-85-7]
	(506–551)	103.7			[89/32]
	(313–363)	107	(328)		[87/4][60/1]
	(368–390)	102.9	(379)	TE	[47/1]
$C_6H_6Cl_6$	γ-hexachlorocyclohexane (melting point 114 °C)				[58-89-9]
	(310–384)	92.4±4.0	(298)	ME,TE	[98/15]
	(292–326)	97.7±0.6	(308)	ME	[96/12]
	(243–303)	106.6±0.9	(273)	GS	[94/1]
		90.1±0.7	(338)	C	[91/5]
		90.8±0.7	(298)	C	[91/5]
	(313–358)	70.5	(335)		[90/26]
	(313–363)	99.2	(328)		[87/4][60/1]
	(293–313)	88.9	(303)	GS	[83/5][70/8]
	(293–313)	101.2	(303)		[70/8]
	(313–343)	89.7	(328)		[60/12]
	(333–365)	115.5		TE	[47/1]
$C_6H_6Cl_6$	δ-hexachlorocyclohexane (melting point 142 °C)				[319-86-8]
	(313–363)	97.3	(328)		[87/4][60/1]
	(328–358)	97.5			[47/1]
$C_6H_6F_8O_2$	2,2,3,3,4,4,5,5-octafluoro-1,6-hexanediol				[355-74-8]
		89.2±8.4			[74/18][77/1]
$C_6H_6N_2O$	2-pyridinecarboxamide				[1452-77-3]
		93.1±3.3	(298)	C	[01/1]
	(323–373)	93.1	(338)	ME	[87/4][60/16] [59/13]
$C_6H_6N_2O$	3-pyridinecarboxamide				[98-92-0]
		121.2±3.3	(298)	C	[01/1]
	(363–393)	111.8	(378)	ME	[87/4][60/16] [59/13]
$C_6H_6N_2O$	4-pyridinecarboxamide				[1453-82-3]
		116.1±1.5	(298)	C	[01/1]
	(383–412)	99.9	(397.5)	ME	[87/4][60/16] [59/13]
$C_6H_6N_2O_2$	3-pyridinecarboxamide N-oxide				[1986-81-8]
	(413–430)	119.2±2.3	(298)	ME	[01/1]
$C_6H_6N_2O_2$	4-pyridinecarboxamide N-oxide				[38557-82-3]
	(409–430)	125.3±1.8	(298)	ME	[01/1]
$C_6H_6N_2O_2$	2-nitroaniline				[88-74-4]
		90±3.0		ME,TE	[85/7]
		82.4±2	(313)		[38/1][60/1] [35/1]
		90±4.2			[58/1][70/1]
	(310–319)	79.9±1.7			[34/1]
		89.0±0.7	(298)		[97/30]
$C_6H_6N_2O_2$	2-methyl-5-pyrazine carboxylic acid				[5521-55-1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
		100.9±1.5	(298)	C	[97/25]
$C_6H_6N_2O_2$	3-nitroaniline				[99-09-2]
		108.3±3		ME,TE	[85/7]
	(320–384)	93.6±0.7	(351)	ME	[73/5]
	(320–384)	94.6±0.3	(351)	C	[73/5]
		96.5±0.3	(298)	C	[73/5]
	(288–343)	97.6	(316)	ME	[58/1][70/1]
	(332–341)	88.3±1.7		TE	[34/1]
	(332–341)	88.7±2.5			[38/1][60/1]
					[35/1]
$C_6H_6N_2O_2$	4-nitroaniline				[100-01-6]
		101.4±1.3	(298)	ME	[90/2]
		101.5±1.7	(298)	TE	[90/2]
		94.6		GS	[87/19][91/18]
		107±3		ME,TE	[85/7]
		100.4±2.1	(298)	ME	[77/28][90/2]
	(351–417)	100.9±0.6	(298)	ME	[73/5]
	(303–363)	109.3	(333)	ME	[58/1][70/1]
		99.3±1.7	(298)	ME	[56/2]
	(346–366)	97.5±1.7	(356)	ME	[56/2]
		100.7±2.5	(298)	TE	[38/1]
		98.7±2.5	(361)	TE	[38/1][60/1]
	(357–367)	103.3±1.7	(362)		[34/1]
$C_6H_6N_2O_3$	3-methyl-4-nitropyridine N-oxide				[1074-98-2]
	(345–392)	106.7±2.0	(298)	ME	[98/12]
$C_6H_6N_4O$	7-methylhypoxanthine				[1006-08-02]
		100.4±13			[78/17]
$C_6H_6N_4O$	9-methylhypoxanthine				[875-31-0]
	(500–552)	84		HSA	[65/2]
$C_6H_6N_6O_6$	2,4,6-trinitro-1,3,5-benzenetriamine				[3058-38-6]
	(402–451)	168.2	(417)	LE	[87/4][69/12]
C_6H_6O	phenol				[108-95-2]
	(263–298)	65.3±3.3	(280)	HSA	[75/3]
	(230–273)	69.7±0.9	(298)	ME	[71/8]
	(282–313)	68.7±0.5		GS	[60/3][70/1]
	(283–303)	68.2	(293)	ME	[58/18]
	(270–313)	68.1	(292)		[48/5]
	(278–305)	67.8		TE	[47/1][60/1]
$C_6H_6O_2$	1,2-dihydroxybenzene				[120-80-9]
		87.5±0.3	(298)	C	[91/7]
		86.6±1.6	(298)	C	[84/20]
		80.8			[38/1][60/1]
					[35/1]
$C_6H_6O_2$	1,3-dihydroxybenzene				[108-46-3]
		85.3±0.5	(334)	C	[91/7]
		87.5±0.5	(298)	C	[91/7]
	(328–379)	92.7	(353)	GS	[83/3]
	(324–335)	93.3±2.1			[68/4]
	(283–323)	93.4	(303)		[58/1]
		95.4±1.7			[38/1][60/1]
					[35/1]
$C_6H_6O_2$	1,4-dihydroxybenzene				[123-31-9]
		94.1±0.5	(298)	C	[91/7]
		93.7±0.5	(334)	C	[91/7]
	(341–400)	101.7	(370)	GS	[83/3]
		103.9±1	(342)	ME,TE	[81/4]
	(298–346)	103.8	(313)		[56/5]
		90.1±0.8			[53/10]
	(326–345)	103.8		QF	[27/2]
$(C_6H_6O_2)$–$(C_{10}H_8O_2)$	1,4-hydroquinone-1,4-naphthoquinone				[60706-28-7]
		98.7±1	(324)	TE,ME	[81/4]
$C_6H_6O_3$	1,2,3-trihydroxybenzene				[87-66-1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		116.9±0.6	(298)	C	[86/3]
	(377–398)	89.1	(387)		[34/2]
$C_6H_6O_3$	1,2,4-trihydroxybenzene				[533-73-3]
		119.8±1.6	(298)	C	[86/3]
$C_6H_6O_3$	1,3,5-trihydroxybenzene				[108-73-6]
		131.7±1.0	(298)	C	[86/3]
	(383–406)	127.9		TE,ME	[83/23]
$C_6H_7Cl_2N$	2-chloroaniline hydrochloride				[137-04-2]
	(373–473)	77.6	(388)		[87/4][75/31]
$C_6H_7Cl_2N$	3-chloroaniline hydrochloride				[141-85-5]
	(383–473)	71.3	(398)		[87/4][75/31]
$C_6H_7Cl_2N$	4-chloroaniline hydrochloride				[20265-96-7]
	(373–483)	77.8	(388)		[87/4][75/31]
$C_6H_7FN_2O_2$	1,3-dimethyl-5-fluorouracil				
	(338–373)	120.4±3.8	(356)	TE	[02/1]
$C_6H_7F_3N_2O_4$	N-[N-(trifluoroacetyl)glycyl]glycine				[400-58-8]
	(273–423)	67	(288)		[87/4][60/20]
C_6H_7N	3-methylpyridine				[108-99-6]
	(225–255)	62.2	(240)	RG,ME	[87/4][51/5]
C_6H_7N	4-methylpyridine				[108-89-4]
	(230–257)	62.7	(243)	RG,ME	[87/4][51/5]
$(C_6H_7N)-(SO_2)$	aniline–sulfur dioxide complex				
	(277–323)	82.1	(300)		[31/2]
C_6H_7NO	2-aminophenol				[95-55-6]
		93.5±0.8	(332)	C	[96/18]
		95.3±0.7	(337)	C	[96/18]
		96.9±0.6	(298)	C	[96/18]
		103.9±0.9	(298)	C	[86/11]
C_6H_7NO	3-aminophenol				[591-27-5]
		98.8±0.9	(335)	C	[96/18]
		101.6±0.9	(298)	C	[96/18]
		104.7±1.2	(298)	C	[86/11]
C_6H_7NO	4-aminophenol				[123-30-8]
		101.1±0.7	(335)	C	[96/18]
		103.6±0.7	(298)	C	[96/18]
	(423–459)	111	(438)		[87/4]
		109.1±1.4	(298)	C	[86/11]
	(403–430)	92.1	(417)	I	[54/8][60/1]
C_6H_7NO	2-methyl-3-hydroxypyridine				[1121-25-1]
		89.3±1.3	(298)	C	[82/15][86/5]
C_6H_7NO	2-methyl-4-hydroxypyridine				[18617-86-6]
		113.0±1.3	(298)	C	[82/15][86/5]
C_6H_7NO	2-methyl-5-hydroxypyridine				[1121-78-4]
		96.2±2.1	(298)	C	[82/15][86/5]
C_6H_7NO	2-methyl-6-hydroxypyridine				[3279-76-3]
		92.0±1.3	(298)	C	[82/15][86/5]
C_6H_7NO	2-methylpyridine N-oxide				[931-19-1]
		78.2±2.2	(298)	C	[95/3]
C_6H_7NO	3-methylpyridine N-oxide				[1003-73-2]
		82.2±2.4	(298)	C	[95/3]
C_6H_7NO	4-methylpyridine N-oxide				[1003-67-4]
	(345–392)	85.3±2.6	(298)	ME	[98/12]
	(316–341)	79.1±1.3			[95/31]
$C_6H_7NO_3S$	sulfanilic acid (4-aminobenzene sulfonic acid)				[121-57-3]
		66.9			[38/1][60/1]
C_6H_7NS	4-methylthiopyridine				[22581-72-2]
	(347–383)	75.3±3.8	(365)	B	[74/21]
C_6H_7NS	1-methyl-4-thiopyridone				[6887-59-8]
	(440–465)	188.3±9.2	(452)	B	[74/21]
$C_6H_7N_5$	1-methyladenine				[5142-22-3]
		138.2		ME	[00/17]
$C_6H_7N_5$	2-methyladenine				[1445-08-5]
		121.7		ME	[00/17]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_6H_7N_5$	3-methyladenine				[5142-23-4]
		117.5		ME	[00/17]
		83.7±9		HSA	[78/17]
$C_6H_7N_5$	8-methyladenine				[22387-37-7]
		103.2		ME	[00/17]
$C_6H_7N_5$	9-methyladenine				[700-00-5]
	(413–458)	121.7	(428)	HSA	[87/4][65/2]
		92±8		HSA	[78/17]
C_6H_8ClN	aniline hydrochloride				[142-04-1]
	(383–471)	87.5	(398)		[87/4][75/31]
$C_6H_8N_2$	1,2-diaminobenzene				[95-54-5]
		85.5±0.3	(298)	C	[97/26]
$C_6H_8N_2$	1,3-diaminobenzene				[108-45-2]
		90.4±0.4	(298)	C	[97/26]
$C_6H_8N_2$	1,4-diaminobenzene				[106-50-3]
		92.2±0.2	(298)	C	[97/26]
$C_6H_8N_2O_2$	1,3-dimethyluracil				[874-14-6]
	(311–367)	115.8±3.0	(338)	TE	[00/2]
	(340–369)	96.9±1.2	(298)	C	[89/17]
		96.4±1.4	(298)	C	[85/5]
	(313–363)	101.7±2.1	(338)	QR	[80/19]
	(400–454)	46±4.2	(426)	HSA	[78/17]
		77.0±1.2		ME	[72/32][00/2]
	(344–370)	92	(352)	HSA	[65/2]
$C_6H_8N_2O_2$	1-methylthymine				[4160-72-9]
	(378–428)	124.4±1.3	(398)	QR	[80/19]
$C_6H_8O_2$	1,3-cyclohexanedione				[504-02-9]
		89.8±1.1	(298)	C	[93/23]
$C_6H_8O_2$	1,4-cyclohexanedione				[637-88-7]
		75.0±1.0	(298)	C	[93/23]
		84.4	(289)	TE,ME	[83/7]
		84.2	(298)		[83/7]
$C_6H_8O_4$	dimethyl fumarate				[624-49-7]
		NA			[72/7]
		84.5±1.7			[34/1]
$C_6H_8O_4$	dimethyl maleate				[624-48-6]
		44.8			[38/1][60/1]
					[35/1]
	(317–341)	41.8±4.2			[34/1]
$C_6H_8O_4$	cyclobutane-1,1-dicarboxylic acid				[5445-51-2]
		112.2±0.7		C	[83/26]
$C_6H_8O_4$	cyclobutane-1,2-dicarboxylic acid				[3396-14-3]
		120.0±0.9		C	[83/26]
$C_6H_9N_3O$	1,3,5-trimethyl-4-nitrosopyrazole				[7171-70-2]
		88.0±2.0	(298)	C	[01/4]
$C_6H_9N_3O$	1,5-dimethylcytosine				[17634-60-5]
	(390–437)	132.8±0.6		GS	[98/37]
$C_6H_9N_3O$	1,N-dimethylcytosine				[6220-49-1]
	(401–426)	122.2±0.3		GS	[98/37]
$C_6H_9N_3O_2$	L-histidine				[71-00-1]
	(392–492)	142±8	(442)	LE	[77/2]
$C_6H_9N_3O_2$	1-methyl-4N-methoxycytosine				
	(316–325)	107.6±0.3		ME	[99/42]
	(320–357)	106.9±0.4		GS	[99/42]
		106.4±0.8			[98/37]
$C_6H_9N_3O_2$	1,5-dimethyl-N-hydroxycytosine				[6220-53-7]
	(357–394)	115.2±0.6		GS	[98/37]
$C_6H_9N_3O_3$	trimethyl isocyanurate				[827-16-7]
	(330–346)	86.6±1.3	(338)	C	[88/12]
		88.2±1.3	(298)	C	[88/12]
		88.2±1.3	(298)	C	[89/17][85/5]
$C_6H_9N_3O_3$	trimethyl cyanurate				[877-89-4]
	(331–360)	90.3±1.0	(298)	C	[89/17][85/5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_6H_{10}N_6O_9$	N-(2,2-dinitropropyl)-2,2-dinitro-N-nitroso-1-propanamine				[28464-26-8]
	(323–336)	110.9±8		ME	[73/12][77/1]
$C_6H_{10}N_6O_{10}$	N-(2,2-dinitropropyl)-2,2-dinitro-N-nitro-1-propanamine				[28464-24-6]
	(398–423)	99.2±0.8		ME	[73/12]
$C_6H_{10}O$	1-methylcyclopentanol				[1462-03-9]
crystal III	(253–281)	73.7±0.4	(267)	ME	[97/4]
crystal III		67.0±0.2	(298)		[97/4]
crystal II		67.4±0.2	(291)	C	[97/4]
$C_6H_{10}O$	cyclohexanone				[108-94-1]
	(243–265)	49.3	(254)		[48/5]
$C_6H_{10}O_3$	4-methyl-2,6,7-trioxabicyclo[2.2.2]octane				[766-32-5]
		67.4	(298)		[95/28]
$C_6H_{10}O_4$	1,6-hexanedioic acid (adipic acid)				[124-04-9]
		NA			[01/19]
	(295–318)	140		TPTD	[01/15]
		133.6±1.3	(298)	ME	[99/10][60/4]
	(359–406)	129.3±2.5	(383)	ME	[50/4][60/1]
					[70/1]
	(292–320)	U37.2	(306)	A	[47/6]
$C_6H_{10}O_4$	*cis*-1,3,5,7-tetraoxadecalin			[75096-35-4] or [54933-94-7]	
		94.9	(298)		[98/19]
$C_6H_{10}O_4$	*trans*-1,3,5,7-tetraoxadecalin			[75096-35-4] or [54933-94-7]	
		81.5	(298)		[98/19]
$C_6H_{10}O_5$	1,6-anhydro-β-D-glucose				[498-07-7]
	(344–386)	125.1±1.0	(365)	ME	[99/1]
	(386–405)	100.3±5.9	(395)	ME	[99/1]
$C_6H_{10}O_6$	(*dl*)-dimethyl tartrate				[608-69-5]
	(314–339)	112±5.6	(326)	HSA	[81/8]
	(315–358)	113.8	(336)	ME	[54/5][77/1]
		U 95.0			[38/1][60/1]
		U 92.5			[37/6]
$C_6H_{10}O_6$	(*d*)-dimethyl tartrate				[5057-96-5]
	(310–320)	77.4±8	(315)	HSA	[81/8]
	(308–317)	U 113	(312)		[54/5][77/1]
		88.3			[38/1][60/1]
		85.8			[37/6]
$C_6H_{10}O_6$	*meso*-dimethyl tartrate				
		98.3			[38/1][60/1]
		95.8			[37/6]
$C_6H_{11}NO$	ϵ-caprolactam				[502-44-3]
	(330–340)	89.3±0.8	(335)	ME	[92/12]
		86.3±0.2	(338)	C	[92/12]
		87.3±0.2	(298)		[92/12]
	(258–308)	77.5	(273)		[87/4]
	(294–314)	83.3±0.8			[53/5][60/1]
					[70/1][60/21]
$C_6H_{11}NO$	cyclohexanone oxime				[100-64-1]
		74.0±0.3	(354)	C	[92/6]
	(288–348)	79.9±0.7	(317)	ME	[92/6]
$C_6H_{11}NO$	*cis* 2-hexenoic acid amide				[820-99-5]
	(323–333)	80	(328)		[87/4]
$C_6H_{11}NO$	*trans* 2-hexenoic acid amide				[820-99-5]
	(353–393)	55.8	(368)		[87/4]
$C_6H_{11}NO_2$	1-amino-1-cyclopentanecarboxylic acid				[52-52-8]
		123.4±4	(455)	ME	[65/1][64/16]
$C_6H_{11}N_3O_6$	2,3,3-trinitro-2-methylpentane				[62154-78-3]
		90.8	(298)		[99/35]
$C_6H_{11}N_5O_8$	N-(2,2-dinitropropyl)-2,2-dinitro-1-propanamine				[1924-47-6]
		105.4±4.2			[73/1][77/1]
$C_6H_{11}NS$	1-methyl-2-thiopiperidone				[13070-07-0]
	(363–370)	81.2±2.9	(366)	B	[74/21]
C_6H_{12}	cyclohexane				[110-82-7]
	(223–280)	37.6	(265)		[87/4][76/23]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		36.4±0.7	(279.9)	B	[74/22]
		46.6	(186)	B	[63/6]
	(268–278)	37.2	(273)		[60/1]
	(228–268)	37.7	(248)	A	[47/2]
	(269–279)	36.5	(274)	A	[34/4]
	solid phase transition	6.73	(186)		[84/25]
$C_6H_{12}N_2$	1,4-diazabicyclo[2.2.2]octane				[280-57-9]
	(324–351)	61.9±3.3	(338)		[60/5][70/1]
	(353–369)	52.3±3.3	(361)		[60/5][70/1]
	(323–373)	54.4	(348)		[63/6]
$C_6H_{12}N_2$	3,3,4,4-tetramethyl-Δ^1-1,2-diazetine				
		62.3±1.0	(298)	C	[78/34]
$C_6H_{12}N_2O_4$	2,3-dinitro-2,3-dimethylbutane				[3964-18-9]
		79.5±0.8	(298)		[99/35]
$C_6H_{12}N_2O_6$	2,5-hexanediol dinitrate				[42730-17-6]
	(293–313)	119	(303)		[87/4][57/7]
$C_6H_{12}N_4$	1,3,5,7-tetraazatricyclo[3.3.1.1^{3,7}]-decane				[100-97-0]
	(298–453)	76.8	(313)		[87/4]
	(302–328)	78.8	(316)	TE,ME	[83/7]
		74.9±2.9	(298)		[60/5][70/2]
	(281–298)	74.1±0.8	(289)	TE	[60/2]
		75.3			[58/6]
$C_6H_{12}O$	cyclohexanol				[108-93-0]
	(272–298)	60.7	(285)		[87/4][48/5]
$C_6H_{12}O_2$	*cis* 1,2-cyclohexanediol				[1792-81-0]
		89.0			[99/30]
crystal I		70±3.0	(366)	C	[95/17]
crystal III		88.0±1.9	(343)	C	[95/17]
	(289–320)	43.7	(304)	ME	[87/4][40/1]
$C_6H_{12}O_2$	*trans* 1,2-cyclohexanediol				[1460-57-7]
		85.9±1.4	(343)	C	[95/17]
	(289–320)	42.5	(304)	ME	[87/4][40/1]
$C_6H_{12}O_6$	*myo*-inositol				[87-89-8]
		181			[99/30]
		154.7±1.4	(477)	TE	[90/7]
		161	(298)		[90/7]
		178	(298)	B	[90/7]
		168			[83/23]
$C_6H_{13}ClO_2S$	1-hexanesulfonyl chloride				[14532-24-2]
	(273–303)	60.7 (liq)	(288)		[87/4][63/11]
$C_6H_{13}NO$	*tert*-butylacetamide				[762-84-5]
	(278–295)	78.3±0.3	(287)	ME	[83/13]
		77.9±0.4	(298)		[83/13]
$C_6H_{13}NO$	hexanamide				[628-02-4]
	(301–371)	85±4.0	(298)	TE	[00/1]
	(293–303)	98.7±1.7	(298)		[73/19][77/1]
	(338–368)	95.1±4	(353)	GS	[59/3][70/1]
					[87/4]
$C_6H_{13}NO_2$	(*dl*)-2-aminohexanoic acid				[616-06-8]
	(435–469)	114.5±0.4	(450)	ME	[65/1][64/16]
					[87/4]
$C_6H_{13}NO_2$	2-amino-3-methylpentanoic acid				[3107-04-8]
		120.1±0.8	(455)	ME	[65/1][64/16]
$C_6H_{13}NO_2$	L-(*d*)-2-amino-4-methylpentanoic acid (L-(*d*)-leucine)				[328-38-1]
	(323–423)	U 83.7±4	(373)	LE	[77/2]
$C_6H_{13}NO_2$	D-(*l*)-leucine				[61-90-5]
	(446–464)	150.6±0.8	(455)	ME	[65/1][70/1]
					[64/16]
$C_6H_{13}NO_2$	6-aminohexanoic acid				[60-32-2]
	(388–407)	153.3±0.8	(398)	C	[83/24]
		155±3	(298)	C	[83/24]
C_6H_{14}	*n*-hexane				[110-54-3]
		50.8	(178)	B	[63/6]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_6H_{14}N_2O_2$	L-lysine				[56-87-1]
	(397–497)	U 88±8	(447)	LE	[77/2]
$C_6H_{14}N_4O_2$	L-arginine				[74-79-3]
	(441–541)	U 134±8	(491)	LE	[77/2]
$C_6H_{14}O_2$	1,6-hexanediol				[629-11-8]
		112.0±0.4	(298)	C	[90/14]
		83.3±1.7			[72/12][77/1]
$C_6H_{14}O_2S$	*tert*-butyl ethyl sulfone				[34008-94-1]
		86.6±2.5			[U/3][70/1]
$C_6H_{14}O_6$	D-mannitol				[69-65-8]
		202	(298)	B	[90/7]
$C_6H_{14}O_6$	D-sorbitol				[3615-56-3]
		186	(298)	B	[90/7]
$C_6H_{14}O_6$	D-galactitol				[608-66-2]
		205	(298)	B	[90/7]
$C_6H_{16}N_2O_2$	N,N′-*bis*(2-hydroxyethyl)ethylenediamine				[4439-20-7]
		142.7	(373)	B	[97/39]
$C_6H_{16}N_2O_2$	diisopropyl ammonium nitrite				[3129-93-9]
	(288–299)	39	(293.5)		[87/4][65/19]
C_7F_{14}	perfluoromethylcyclohexane				[355-02-2]
		51.6	(234)	B	[63/6][57/5]
C_7F_{16}	*n*-hexadecafluoroheptane				[335-57-9]
		57.7		B	[63/6][51/7]
$C_7HF_5O_2$	pentafluorobenzoic acid				[602-94-8]
	(335–359)	91.6±4.2		GS	[69/5][70/1]
$C_7H_4S_3$	4,5-benzo-1,2-dithiole-3-thione				[3354-42-5]
	(350–361)	102.6±0.4	(355)		[72/16]
		107±0.4	(298)		[72/16]
$C_7H_4S_3$	4,5-benzo-1,3-dithiole-2-thione				[934-36-1]
		118.8±0.4	(298)		[73/16][77/1]
$C_7H_5BrO_2$	2-bromobenzoic acid				[88-65-3]
		95.9±0.4	(298)	C	[94/4]
		110.9±1.1	(298)	C	[87/8]
		83.3±0.4		DSC	[83/8]
$C_7H_5BrO_2$	3-bromobenzoic acid				[585-76-2]
		99.2±0.2	(298)	C	[94/4]
		105.0±1.1	(298)	C	[87/8]
$C_7H_5BrO_2$	4-bromobenzoic acid				[586-76-5]
		103.1±0.6	(298)	C	[94/4]
		107.6±1.1	(298)	C	[87/8]
$C_7H_5ClO_2$	2-chlorobenzoic acid				[118-91-2]
		100.9±0.5	(298)	C	[95/24]
		116.2±0.6		DSC	[83/8]
		79.5±3.3			[38/1][60/1]
					[70/1]
$C_7H_5ClO_2$	3-chlorobenzoic acid				[535-80-8]
		101.4±0.4	(298)	C	[95/24]
		99.6	(413)	C	[75/20]
		105.8	(298)	C	[75/20]
		80.8±3.3			[38/1][60/1]
					[70/1]
$C_7H_5ClO_2$	4-chlorobenzoic acid				[74-11-3]
		102.5±0.4	(298)	C	[95/24]
		101.9	(413)	C	[75/20]
		107.9	(298)	C	[75/20]
		87.9±3.3			[38/1][60/1]
					[70/1]
$C_7H_5FO_2$	2-fluorobenzoic acid				[445-29-4]
	(309–323)	93.9±0.5	(316)	ME	[00/5]
		94.4±0.8	(298)		[00/5]
$C_7H_5FO_2$	3-fluorobenzoic acid				[455-38-9]
	(303–317)	93.3±0.5	(310)	ME	[00/5]
		93.6±0.6	(298)		[00/5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_7H_5FO_2$	4-fluorobenzoic acid				[456-22-4]
	(358–382)	91.2±1.3	(370)	GS	[69/5][70/1]
					[87/4]
		93.1±3.8	(298)		[69/5][00/5]
$C_7H_5IO_2$	2-iodobenzoic acid				[88-67-5]
	(345–359)	111.4±0.8	(352)	ME	[00/5]
		112.8±2.0	(298)		[00/5]
		92.6±0.2	(298)	C	[94/30][95/24]
		103.0±0.4	(298)	DSC	[83/8]
$C_7H_5IO_2$	3-iodobenzoic acid				[618-51-9]
	(347–363)	109.6±0.5	(355)	ME	[00/5]
		111.1±1.9	(298)		[00/5]
		96.4±0.3	(298)	C	[94/30][95/24]
$C_7H_5IO_2$	4-iodobenzoic acid				[619-58-9]
	(363–379)	111.0±0.4	(372)	ME	[00/5]
		112.9±2.5	(298)		[00/5]
		99.3±0.4	(298)	C	[94/30][95/24]
C_7H_5NO	benzoxazole				[273-53-0]
		69.5±0.4	(298)	C	[98/20]
C_7H_5NS	benzothiazole				[95-16-9]
		72.9±0.6	(298)	B	[98/20]
$C_7H_5NO_4$	3-(5-nitro-2-furyl)-2-propenal				[1874-22-2]
		97.9±2.1			[80/28][86/5]
$C_7H_5NO_4$	2-nitrobenzoic acid				[552-16-9]
	(346–356)	115.8±0.5	(356)	ME	[99/31]
		118.7±0.5	(298)	ME	[99/31]
$C_7H_5NO_4$	3-nitrobenzoic acid				[121-92-6]
	(347–361)	107.2±0.4	(354)	ME	[99/31]
		110.0±0.4	(298)	ME	[99/31]
$C_7H_5NO_4$	4-nitrobenzoic acid				[62-23-7]
	(367–381)	115.4±0.6	(374)	ME	[99/31]
		119.7±0.6	(298)	ME	[99/31]
$C_7H_5N_3O_6$	2,4,6-trinitrotoluene				[118-96-7]
	(293–353)	112.4	(308)		[87/4]
	(301–349)	113.2±1.5	(298)	ME	[78/15]
	(297–330)	99.2±2		GS	[76/3][77/5]
		104.6±1.7	(298)	ME	[71/4]
	(327–349)	103.3±2.5	(338)		[70/3]
		U122-132		TGA	[70/26][78/15]
	(323–353)	118.4±4.2		ME	[50/1][60/1]
					[70/1]
	(340–353)	102.2	(346)	ME	[50/2]
$C_7H_5N_3O_7$	2,4,6-trinitroanisole				[606-35-9]
	(334–342)	132.4±2.1	(338)	ME	[87/4][70/1]
					[50/2]
$C_7H_5N_3O_7$	3-hydroxy-2,4,6-trinitrotoluene				[602-99-3]
	(310–365)	111.2±2.1	(298)		[78/15]
	(325–350)	103.3	(337)		[70/3]
		104.6	(298)		[70/3]
$C_7H_5N_5O_8$	2,4,6-N-tetranitro-N-methylaniline				[479-45-8]
	(335–416)	133.8±1.6	(298)	ME	[78/15]
$C_7H_6N_2$	benzimidazole				[51-17-2]
		90.2±0.6	(363)	C	[98/6]
		94.3±0.6	(298)		[98/6]
	(340–359)	101.8±0.4	(350)	ME	[87/9]
		102.2±0.4	(298)	ME	[87/9]
		98.9±0.4	(298)		[86/15]
$C_7H_6N_2$	indazole				[271-44-3]
	(308–317)	90.9±0.2	(318)	ME	[87/9]
		91.1±0.2	(298)		[87/9][86/15]
		87.7±0.9			[85/6]
		97.1			[61/3]
$C_7H_6N_2O_2$	5-methoxybenzofurazan				[4413-48-3]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		89.2±0.7	(298)	C	[96/6]
$C_7H_6N_2O_2$	5-methylbenzofurazan-1-oxide				[19164-41-1]
		92.2±1.2	(298)	C	[96/6]
$C_7H_6N_2O_3$	5-methoxybenzofurazan-1-oxide				[7791-49-3]
		96.0±1.6	(298)	C	[96/6]
$C_7H_6N_2O_3$	2-nitrobenzaldoxime				[6635-41-2]
anti		U 26.4±1.7		MS	[83/9]
syn		U 40.2±1.7		MS	[83/9]
$C_7H_6N_2O_3$	3-nitrobenzaldoxime				[3431-62-7]
anti		U 41.0±1.7		MS	[83/9]
syn		U 42.7±1.7		MS	[83/9]
$C_7H_6N_2O_3$	4-nitrobenzaldoxime				[1129-37-9]
anti		U 56.4±1.7		MS	[83/9]
$C_7H_6N_2O_4$	1,1-dinitrophenylmethane				[25321-14-6]
	(312–323)	76.1±0.8		ME	[72/6]
$C_7H_6N_2O_4$	2,4-dinitrotoluene				[121-14-2]
	(332–342)	98.3±2.5	(337)	ME	[77/1][70/3]
		99.6±2.5	(298)		[77/1][70/3]
	(277–344)	95.8±1.25	(310)	GS	[76/3][77/5]
		99.6±1.3		ME	[70/1][71/4]
$C_7H_6N_2O_4$	2,6-dinitrotoluene				[606-20-2]
	(277–323)	98.3±.8	(300)	GS	[76/3][77/5]
$C_7H_6N_2O_4$	(dinitromethyl)benzene				[611-38-1]
	(312–323)	76.1	(317.5)		[87/4]
$C_7H_6N_2O_5$	3,5-dinitro-*o*-cresol				[534-52-1]
	(290–324)	103.3		TE	[47/1][60/1]
$C_7H_6O_2$	benzoic acid				[65-85-0]
		88.3±0.5	(298)	C	[01/5]
	(323–394)	90.5±0.3		GS	[99/42]
		89±6		TGA	[99/36]
		87.5±0.4			[98/38]
	(313–343)	86.7		TGA	[97/36]
	(307–314)	88.7±0.9	(311)	ME	[90/3]
		89.3±0.9	(298)		[90/3]
		87.5±0.3	(335)	C	[88/4]
		89.2±1.0	(298)		[88/4]
		95.1±1.8	(294)		[85/9]
	(293–319)	90.8±0.6	(306)	QR	[85/10]
		89.5±0.4		DSC	[83/8]
	(320–370)	89.1±0.2		C	[82/3]
	(316–391)	89.5±0.5	(353)	DM	[82/12]
	(293–313)	90.6±2		ME	[82/1]
		93.45±1		GS	[81/3]
	(328–398)	U 133.5±4.5		C	[80/20]
	(344–395)	85±2	(369)	SG	[80/30]
	(281–323)	88.3±2.9		LE	[78/17]
		88.5±0.8		C	[76/7]
	(294–331)	92.5±4		ME	[75/6]
	(293–318)	88.5±1.6		TE	[75/5]
	(273–318)	92.9±0.2	(296)	ME	[74/5]
	(293–311)	88.1±0.2		TCM	[73/1]
	(338–383)	89.0±0.4		ME	[73/2]
	(338–383)	89.3±0.4		C	[73/2]
	(290–315)	86.6±1.3		ME,C	[72/9]
	(293–308)	90.±0.3		ME	[72/3]
		89.5±0.2	(298)	C	[72/1][71/6]
	(299–329)	89.1	(314)		[71/17]
	(290–315)	86.6±1.7	(303)	ME	[70/19][99/42]
	(324–392)	90.4±0.8	(367)	HSA	[70/9]
		89.7±0.6	(298)	C	[69/2]
	(348–378)	88.9±0.5	(363)	GS	[68/9]
	(291–307)	90.9	(299)	ME	[65/6]
	(243–387)	91.5±0.5	(298)	GS	[54/1][70/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
					[60/1]
		84.2±0.8	(318)	TE	[38/1]
	(333–389)	85.8	(383)	T	[34/2]
	(377–394)	84.5±0.5	(364)	I	[27/3]
$C_7H_6O_2$	4-hydroxybenzaldehyde				[123-08-0]
	(303–336)	98.2±1.3	(298)		[87/4][71/8]
	(312–336)	91.2	(324)		[60/14]
$C_7H_6O_2$	tropolone				[533-75-5]
	(273–333)	84.1±0.4		ME	[71/3]
		83.7±0.8	(298)		[51/4][70/1]
$C_7H_6O_2$	3-(2-furyl)-2-propenal				[623-30-3]
		76.1±2.1			[80/28][86/5]
$C_7H_6O_3$	2-hydroxybenzoic acid				[69-72-7]
		95.1±0.5	(333)	C	[93/22]
		96.3±0.5	(298)		[93/22]
	(307–324)	95.7±0.8	(315)	ME	[80/2][81/11]
	(312–332)	94.9±0.4	(322)	TE	[77/4]
	(312–332)	93.22±0.8	(322)	ME	[77/4]
	(298–328)	99.2±2	(313)	ME	[74/5]
	(368–408)	94.8±0.4			[73/2]
	(368–408)	95.1±0.4		GS	[54/1][70/1]
					[60/1]
$C_7H_6O_3$	3-hydroxybenzoic acid				[99-06-9]
		123.5±0.74	(363)	C	[93/22]
		125.0±0.74	(298)		[93/22]
$C_7H_6O_3$	4-hydroxybenzoic acid				[99-96-7]
		112.4±0.7	(363)	C	[93/22]
		114.1±0.7	(298)		[93/22]
	(398–433)	116.3		GS	[54/1][60/1]
$C_7H_6O_4$	2,3-dihydroxybenzoic acid				[303-38-8]
		116±4		TGA	[99/36]
$C_7H_6O_4$	2,4-dihydroxybenzoic acid				[89-86-1]
		126±6		TGA	[99/36]
$C_7H_6O_4$	2,5-dihydroxybenzoic acid				[490-79-9]
		109±3		TGA	[99/36]
$C_7H_6O_4$	2,6-dihydroxybenzoic acid				[303-07-1]
		111±7		TGA	[99/36]
$C_7H_6O_4$	3,4-dihydroxybenzoic acid				[99-50-3]
		153±9		TGA	[99/36]
$C_7H_6O_4$	3,5-dihydroxybenzoic acid				[99-10-5]
		135±6		TGA	[99/36]
$C_7H_6O_5$	3,4,5-trihydroxybenzoic acid				[149-91-7]
	(391–421)	75.1	(406)		[34/2]
C_7H_7NO	2-aminotropone				[6264-93-3]
	(273–333)	71.13±0.4		ME	[71/3]
C_7H_7NO	benzamide				[55-21-0]
	(325–342)	96.9	(333.5)		[87/4][60/21]
	(323–349)	101.7±1	(298)	C	[82/2]
C_7H_7NO	formanilide				[103-70-8]
	(298–318)	77.8	(308)		[87/4][60/21]
$C_7H_7NO_2$	2-aminobenzoic acid (I)				[118-92-3]
		111.6±1.7	(298)		[72/4]
$C_7H_7NO_2$	2-aminobenzoic acid (II)				
	(331–349)	100±1	(338)	TE,ME	[79/1]
		99.6±0.5	(378)	C	[74/1]
		104.9±1	(298)	C	[74/1]
$C_7H_7NO_2$	3-aminobenzoic acid				[99-05-8]
	(366–385)	122±1	(375)	TE,ME	[79/1]
	(367–389)	122.3±3		C	[74/1]
		128±3.2	(298)	C	[74/1][77/13]
$C_7H_7NO_2$	4-aminobenzoic acid				[150-13-0]
	(364–384)	112.3±1	(373)	TE,ME	[79/1]
	(367–389)	114±3.5		C	[74/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		116±3.7	(298)	C	[74/1][77/13]
		U 142			[38/1][60/1]
$C_7H_7NO_2$	2-hydroxybenzaldoxime				[94-67-7]
(melting point 330 K)	(423–513)	96.7±9.4	(468)	DSC	[84/12]
		105.2±10	(298)		[84/12]
anti		U 51±1.7		MS	[83/9]
syn		U 65.3±1.7		MS	[83/9]
$C_7H_7NO_2$	3-hydroxybenzaldoxime				[22241-18-5]
anti		U 52.7±1.7		MS	[83/9]
syn		U 57.3±1.7		MS	[83/9]
$C_7H_7NO_2$	4-hydroxybenzaldoxime				[699-06-9]
anti		U 54.4±1.7		MS	[83/9]
$C_7H_7NO_2$	4-nitrotoluene				[99-99-0]
		79.1±2.5	(298)	ME	[71/4]
	(298–310)	79.1	(298)		[70/3]
$C_7H_7NO_3$	2,4-dihydroxybenzaldoxime				[5399-68-8]
anti		U 76.2±1.7		MS	[83/9]
syn		U 93.7±1.7		MS	[83/9]
C_7H_7NS	thiobenzamide				[2227-79-4]
		103.4±2.2	(298)	C	[89/11]
		97.2±0.6	(298)	C	[82/17]
C_7H_8	toluene				[108-88-3]
		43.1	(298)	B	[70/3]
$C_7H_8N_2O$	monophenylurea				[64-10-8]
	(392–412)	136±6	(406)	TE	[87/2]
$C_7H_8N_2O$	2-aminobenzaldoxime				[3398-07-0]
anti		U 33.9±1.7		MS	[83/9]
syn		U 63.6±1.7		MS	[83/9]
$C_7H_8N_2O$	(2-pyridyl)acetamide				[5231-96-9]
		103.8	(298)	B,E	[79/12]
$C_7H_8N_2$	1-amino-7-imino-1,3,5-cycloheptatriene				[33496-46-7]
	(273–333)	49.4±0.4		ME	[71/3]
$C_7H_8N_4O$	9-ethylhypoxanthine				[31010-51-2]
		108.8±13		HSA	[78/17]
		U 83.7		HSA	[65/2]
$C_7H_8N_4O$	1,9-dimethylhypoxanthine				[20535-82-4]
		75.3±13		HSA	[78/17]
$C_7H_8N_4O_2$	1,3-dimethylxanthine (theophylline)				[58-55-9]
form I	(413–453)	132.0±0.3	(433)	T	[99/40]
form I		142	(298)		[99/40]
form II	(413–453)	134.2±0.3	(433)	T	[99/40]
form II		144	(298)		[99/40]
		126	(421)	ME,TE	[83/17]
		135	(298)		[83/17][99/40]
C_7H_8O	2-methylphenol				[95-48-7]
	(273–303)	74.8	(288)		[87/4]
	(273–303)	76.0±0.8	(288)		[60/3][70/1]
C_7H_8O	3-methylphenol				[108-39-4]
	(273–285)	56.1	(279)		[87/4]
	(284–313)	61.7±1.0 (liq)		GS	[60/3]
C_7H_8O	4-methylphenol				[106-44-5]
	(273–307)	73.9±1.5	(290)		[60/3][70/1]
$C_7H_8O_2$	4-methoxyphenol				[150-76-5]
	(278–300)	88.7	(289)		[87/4][60/14]
$C_7H_8O_2$	3-methyl-1,2-dihydroxybenzene				[488-17-5]
		93.2±1.0	(298)	C	[84/20]
$C_7H_8O_2$	4-methyl-1,2-dihydroxybenzene				[452-86-8]
		94.9±1.0	(298)	C	[84/20]
$C_7H_8O_2$	2-methyl-1,4-dihydroxybenzene				[95-71-6]
	(333–368)	97.2±1.4	(351)	GS	[99/28]
		100.4±1.4	(298)		[99/28]
$C_7H_8O_2S$	4-methoxy-6-methyl-2-thiopyrone				[52911-98-5]
	(402–415)	130.5±5.9	(408)	B	[74/21]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_7H_8O_2S$	6-methyl-2-methylthio-4-pyrone				[52911-99-6]
	(388–433)	87.4±3.8	(410)	B	[74/21]
$C_7H_8O_2S$	methyl phenyl sulfone				[3112-85-4]
		92±2.9			[U/3][70/1]
$C_7H_8O_3$	3-methoxycatechol				[934-00-9]
		91.7±0.8	(298)		[86/3]
$C_7H_8S_3$	4,5-tetramethylene-1,3-dithiole-2-thione				[698-42-0]
	(340–352)	98.3	(346)		[67/5][70/1]
		102.1±2.9			[67/5][70/1]
$C_7H_8S_3$	4,5-tetramethylene-1,2-dithiole-3-thione				[14085-34-8]
	(335–350)	101.6	(342)		[72/16]
		105.3	(298)		[72/16]
$C_7H_9F_3N_2O_4$	N-[N-(trifluoroacetyl)glycyl]glycine methyl ester				[433-33-0]
	(323–419)	127.9	(338)		[87/4][60/20]
C_7H_9N	*p*-toluidine				[106-49-0]
		78.8±0.5	(298)		[90/24]
$C_7H_9N_5$	8,9-dimethyladenine				[87578-82-3]
	(369–374)	105.8±0.8	(361)	ME	[87/7]
$C_7H_9N_5$	2,9-dimethyladenine				[76470-20-7]
	(359–364)	123.5	(371)		[92/5]
C_7H_{10}	norbornene				[498-66-8]
		37.8±0.14	(298)	C	[82/4]
		37.7±0.9	(298)	BG	[78/5]
		38.7±0.5	(298)	C	[76/4]
		33.6±0.08			[73/27]
	solid phase transition	4.37	(130)		[92/17]
C_7H_{10}	nortricyclene				[279-19-6]
		38.7±0.7	(298)	BG	[78/5]
		39.2±1.1	(298)	C	[76/4]
$C_7H_{10}N_2$	*α-tert*-butylmalononitrile				[4210-60-0]
	(293–323)	59.8±0.7	(298)		[90/18]
$C_7H_{10}N_2O_2$	1,3-dimethylthymine				[4401-71-2]
	(313–363)	109.2±2.1	(338)	QR	[80/19]
$C_7H_{10}N_2O_2$	1,3,5-trimethyluracil				[4401-71-2]
	(321–331)	103.5±1.5	(326)	ME	[96/5]
$C_7H_{10}N_2O_2$	1,3,6-trimethyluracil				[13509-52-9]
	(300–340)	106.7±2.5	(320)	QR	[80/19]
$C_7H_{10}O$	bicyclo[2.2.1]heptan-2-one				[497-38-1]
	(300–340)	49.0±1.7	(298)	BG	[78/1]
$C_7H_{10}O$	bicyclo[2.2.1]heptan-7-one				[10218-02-7]
	(300–340)	47.3±2.2	(298)	BG	[78/1]
$C_7H_{10}O_2$	2-oxabicyclo[2.2.2]octan-3-one				[4350-84-9]
		69.6±2.1			[80/17]
$C_7H_{10}O_3$	2,4,10-trioxaadamantane				[281-32-3]
		74.4±0.4	(298)	C	[74/16]
$C_7H_{10}O_3$	tetramethylsuccinic anhydride				[281-32-3]
		74.1±4.2			[54/3][70/1]
$C_7H_{10}S_3$	4,5-tetramethylene-1,3-dithiolan-2-thione				[2164-87-6]
	(353–369)	99.0	(360)		[67/5][70/1]
		103.9±2.9	(298)		[67/5][70/1]
$C_7H_{11}N_3O$	1,N,N-trimethylcytosine				[2228-27-5]
		110.9±1.7			[98/37]
$C_7H_{11}N_3O$	1,5,N-trimethylcytosine				[25307-94-2]
	(396–431)	108.0±2.0		GS	[98/37]
$C_7H_{11}N_3O_2$	1,5-dimethyl-N-methoxycytosine				
	(327–365)	95.6±0.7		GS	[98/37]
$C_7H_{11}N_5O_{10}$	1,1,1,4,4-pentanitro-2,2-dimethylpentane				[242800-94-8]
		103.8	(298)		[99/35]
C_7H_{12}	bicyclo[2.2.1]heptane				[279-23-2]
		40.0±0.1	(298)	C	[87/1]
		40.3±0.32	(298)	C	[82/4]
		40.4±0.8			[78/5]
		39.33±0.13			[73/27]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		40.1±0.8		BG	[71/1][77/1]
	(284–326)	40.0±0.8	(305)	TSGC	[75/2]
$C_7H_{12}ClN_5$	2-chloro-4,6-*bis*(ethylamino)-*s*-triazine (Simazin)				[122-34-9]
	(323–403)	130.8	(338)	GS-GC	[87/4][64/14]
$C_7H_{12}O_3$	1,4-dimethyl-2,6,7-trioxabicyclo[2.2.2]octane				[27761-61-1]
		74.9	(298)		[95/28]
$C_7H_{12}O_4$	1,7-heptanedioic acid (pimelic acid)				[111-16-0]
	(288–308)	178		TPTD	[01/15]
	(358–371)	136.6±1.0	(365)	ME	[99/10]
		139.9±1.0	(298)		[99/10]
$C_7H_{12}O_4$	butylmalonic acid				[534-59-8]
	(348–362)	122.5±1.4	(355)	ME	[00/22]
		124.6±2.3	(298)	ME	[00/22]
$C_7H_{13}N$	1-azabicyclooctane				[100-76-5]
		50.8±0.4			[71/10][77/1]
	(273–362)	50.8±0.2	(298)		[48/3][70/1]
					[60/1]
$C_7H_{13}NO$	*trans*-6-heptenoic acid amide				
	(362–393)	97.2	(377)		[87/4]
C_7H_{14}	cycloheptane				[291-64-5]
		53.5	(134)		[63/6]
$C_7H_{14}N_2$	3,3,5,5-tetramethyl-1-pyrazoline				[2721-31-5]
		61.6±0.2	(298)		[76/12]
$C_7H_{14}N_2O_2$	N-acetyl L-valinamide				[37933-88-3]
		129.8±1.9	(376)	C	[99/12]
		133.1±2.2	(298)		[99/12]
	(391–425)	126±2.0	(418)		[90/13]
$C_7H_{14}N_2O_2S$	2-methyl-2(methylthio)propanal, O-[(methylamino)carbonyl]oxime				[116-06-3]
	(298–323)	80	(310)	ME	[87/4][76/11]
$C_7H_{14}O$	1-methylcyclohexanol				[590-67-0]
		75.9±0.4	(291)	C	[98/34]
$C_7H_{15}NO$	heptanamide (enanthamide)				[628-62-6]
	(345–365)	99.6			[59/3][60/1]
					[87/4]
$C_7H_{15}NO_2$	hexyl carbamate				[2114-20-7]
	(291–314)	96.2±0.8		GS	[59/4]
C_7H_{16}	*n*-heptane				[142-82-5]
		57.9	(183)	B	[63/6]
$C_7H_{16}N_2S$	1,3-di-*n*-propylthiourea				[26536-60-7]
		134.9±3	(298)	B,HA	[00/23]
		132.5±3.0	(298)	C	[94/17]
$C_8Cl_4N_2$	2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile				[1897-45-6]
	(363–418)	109.1	(378)	ME, GS	[87/4][80/37]
$C_8H_2Cl_4N_2$	2,3,6,7-tetrachloroquinoxaline				[25983-14-6]
	(347–361)	106.2±0.3	(354)	ME	[00/26]
		108.2±1.9	(298)	ME	[00/26]
$C_8H_4Cl_2N_2$	2,3-dichloroquinoxaline				[2213-63-0]
	(313–329)	92.4±0.4	(321)	ME	[00/26]
		93.1±0.9	(298)	ME	[00/26]
$C_8H_4N_2$	1,2-dicyanobenzene				[91-15-6]
		86.9±1.5	(298)	GS	[80/10]
$C_8H_4N_2$	1,3-dicyanobenzene				[626-17-5]
		90.1±1.5	(298)	GS	[80/10]
$C_8H_4N_2$	1,4-dicyanobenzene				[623-26-7]
		89.7±1.8	(298)	ME	[92/24]
		88.8±1.5	(298)	GS	[80/10]
$C_8H_4N_2O_2$	1,4-dicyanobenzene di-N-oxide				[3729-34-8]
		73.0±2.0	(298)	ME	[92/24]
$C_8H_4O_2$	benzocyclobutenedione				[6383-11-5]
	(304–367)	U 89.5	(336)		[89/9]
$C_8H_4O_3$	phthalic anhydride				[85-44-9]
	(313–383)	87.9	(348)		[87/4][72/25]
	(333–403)	84.4±1.2	(388)	GS	[79/6]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		81±1		C	[71/6]
	(303–333)	88.4±1.2	(318)		[46/2][70/1]
					[60/1]
$C_8H_5F_3OS_2$	1,1,1-trifluoro-4-(2-thienyl)-4-mercapto-3-buten-2-one				[4552-64-1]
		95.1±3.7	(298)	C	[97/19]
$C_8H_5F_3O_2S$	1,1,1-trifluoro-4-(2-thienyl)-4-hydroxy-3-buten-2-one				[15788-02-0]
		86.2±0.6	(298)	C	[97/19]
		86.2±0.6	(298)	ME	[92/28]
$C_8H_5F_3O_3$	4,4,4-trifluoro-1-(2-furanyl)-butane-1,3-dione				[326-90-9]
		70±10	(298)		[97/33]
C_8H_5NO	α-oxo-benzeneacetonitrile				[613-90-1]
	(292–304)	78.7±4.2	(298)		[69/9][77/1]
					[87/4]
$C_8H_5NO_2$	phthalimide				[85-41-6]
	(378–418)	82.8	(393)	RG	[87/4][56/13]
$C_8H_5N_3$	pyridinium dicyanomethylide				[27032-01-5]
	(403–433)	125.4	(418)		[87/4]
	(403–433)	125.5±1.3		ME	[67/3][70/1]
$C_8H_6ClNO_3$	2-nitrobenzeneacetyl chloride				[22751-23-1]
	(296–327)	103.6	(311)	TE	[87/4][47/1]
					[60/1]
$C_8H_6ClNO_3$	3-nitrobenzeneacetyl chloride				[99-47-8]
	(299–343)	109.1	(314)	TE	[87/4][47/1]
					[60/1]
$C_8H_6N_2$	phthalazine				[253-52-1]
		82.3±2.3	(298)	C	[95/25]
		81.1±0.4	(298)	C	[98/7][93/19]
		96.7		ME	[72/10]
$C_8H_6N_2$	quinoxaline				[91-19-0]
		66.6±2.0	(298)	C	[95/25]
		69.4±0.6	(298)	C	[93/19]
$C_8H_6N_2$	quinazoline				[253-82-7]
		77.6±0.5	(298)	C	[98/7][93/19]
		76.6±1.4	(298)	C	[95/25]
$C_8H_6N_2O$	2-hydroxyquinoxaline				[1196-57-2]
	(383–399)	116.1±0.6	(391)	ME	[00/26]
		118.5±3.1	(298)	ME	[00/26]
		125.8±4.0	(298)	C	[00/15]
$C_8H_6N_2O_2$	2,3-dihydroxyquinoxaline				[15804-19-0]
		156.3±5.5	(298)	C	[00/15]
$C_8H_6N_2O_2$	quinoxaline-1,4-dioxide				[2433-66-7]
		112.0±1.9	(298)	C	[97/25]
$C_8H_6N_2O_2$	3-aminophthalimide				[2518-24-3]
	(386–459)	108.3	(401)	RG	[87/4][56/13]
$C_8H_6N_2O_2$	4-aminophthalimide				[3676-85-5]
	(444–498)	135.3	(459)		[87/4]
$C_8H_6N_4$	monobenzo-1,3α,4,6α-tetraazapentalene				
	(323–373)	74.9±2.9	(348)		[67/6]
$C_8H_6N_4$	monobenzo-1,3α,6,6α-tetraazapentalene				
	(323–383)	63.6±2.9	(350)		[67/6]
$C_8H_6O_3$	piperonal				[120-57-0]
	(293–353)	90.8	(323)		[53/7][60/1]
					[87/4]
$C_8H_6O_4$	phthalic acid				[88-99-3]
		129.8±0.6	(298)	C	[99/16]
$C_8H_6O_4$	isophthalic acid				[121-91-5]
		142.0±0.7	(298)	C	[99/16]
	(493–563)	114.2	(508)		[87/4][62/2]
	(493–563)	106.7±2.2	(523)	GS	[62/2][70/1]
$C_8H_6O_4$	terephthalic acid				[100-21-0]
		146.6±0.5	(298)	C	[99/16]
	(523–633)	139.2	(538)		[87/4][62/2]
	(523–633)	131.	(573)	GS	[62/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(392–425)	98.24±2.5	(408)		[34/2][70/1]
C_8H_6S	2,3-benzothiophene				[95-15-8]
	(273–403)	61.1	(288)	GS	[81/14]
		65.7±0.2	(298)	C	[79/2]
C_8H_7ClO	2-chloroacetophenone				[532-27-4]
	(278–323)	90.7	(293)	TE	[87/4][47/1]
					[60/1]
C_8H_7N	indole				[120-72-9]
	(291–319)	75	(305)		[87/4]
	(275–303)	77.8±1.6	(289)	ME	[74/5]
	(283–301)	70.0	(292)		[55/10]
	(283–328)	74.9	(305)		[54/4][60/1]
$C_8H_7NO_3$	3-nitroacetophenone				[121-89-1]
	(293–343)	110	(308)		[87/4]
$C_8H_7NO_4$	2-methyl-3-nitrobenzoic acid				[1975-50-4]
	(357–371)	117.3±0.6	(364)	ME	[01/7]
		119.5±2.3	(298)	ME	[01/7]
$C_8H_7NO_4$	2-methyl-6-nitrobenzoic acid				[13506-76-8]
	(355–369)	117.8±0.6	(362)	ME	[01/7]
		120.0±2.2	(298)	ME	[01/7]
$C_8H_7NO_4$	3-methyl-2-nitrobenzoic acid				[5437-38-7]
	(371–385)	121.7±0.5	(378)	ME	[01/7]
		124.4±2.7	(298)	ME	[01/7]
$C_8H_7NO_4$	3-methyl-4-nitrobenzoic acid				[3113-71-1]
	(363–379)	116.8±0.6	(371)	ME	[01/7]
		119.3±2.5	(298)	ME	[01/7]
$C_8H_7NO_4$	4-methyl-3-nitrobenzoic acid				[96-98-0]
	(363–377)	116.1±0.6	(370)	ME	[01/7]
		118.6±2.5	(298)	ME	[01/7]
$C_8H_7NO_4$	5-methyl-2-nitrobenzoic acid				[3113-72-2]
	(355–371)	116.5±0.5	(363)	ME	[01/7]
		118.7±2.2	(298)	ME	[01/7]
$C_8H_7NO_5$	3-methoxy-2-nitrobenzoic acid				[4920-80-3]
	(398–410)	136.6±1.3	(404)	ME	[99/31]
		141.9±1.3	(298)	ME	[99/31]
$C_8H_7NO_5$	4-methoxy-3-nitrobenzoic acid				[89-41-8]
	(387–401)	126.5±0.8	(394)	ME	[99/31]
		131.2±0.8	(298)	ME	[99/31]
$C_8H_7NO_5$	3-methoxy-4-nitrobenzoic acid				[5081-36-7]
	(388–402)	126.1±1.1	(395)	ME	[99/31]
		131.0±1.1	(298)	ME	[99/31]
$C_8H_7N_3O_2$	3,6-diaminophthalimide				[1660-15-7]
	(461–508)	98.5	(476)	RG	[87/4][56/13]
$C_8H_7N_3O_6$	2,2,2-trinitro-1-phenylethane				[38677-56-4]
	(293–308)	84.1±0.4	(301)	ME	[72/6][77/1]
					[87/4]
$C_8H_7N_3O_6$	3-methyl-2,4,6-trinitrotoluene				[632-92-8]
	(319–411)	129.8±1.1	(365)	ME	[87/4][78/15]
$C_8H_7N_3O_7$	2,4,6-trinitrophenetole				[4732-14-3]
	(352–364)	79 (liq)	(358)	ME	[87/4][50/2]
	(342–352)	120.5±2.1	(347)	ME	[50/5][70/1]
					[50/2]
C_8H_8	cubane				[277-10-1]
	(239–262)	80.3±1.6	(298)	ME	[66/2][70/1]
					[87/4]
C_8H_8	cyclooctatetraene				[629-20-9]
		54.4		B	[49/9]
$C_8H_8N_2O_2$	1,3-benzenedicarboxamide				[1740-57-4]
		54.4±4.2		ME	[71/15][77/1]
$C_8H_8N_2O_2$	1,4-benzenedicarboxamide				[3010-82-0]
	(373–498)	57.3±4.2			[72/14][77/1]
C_8H_8O	2-phenylacetic acid				[103-82-2]
	(305–321)	98.6±0.4	(313)	ME	[01/10]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		99.0±0.6	(298)	ME	[01/10]
$C_8H_8O_2$	2-methylbenzoic acid				[118-90-1]
	(297–337)	95.9±0.1	(298)	ME	[86/4]
		137.7±0.5		DSC	[83/8]
$C_8H_8O_2$	3-methylbenzoic acid				[99-04-7]
	(303–323)	97.0±0.3	(298)	ME	[86/4]
$C_8H_8O_2$	4-methylbenzoic acid				[99-94-5]
	(318–337)	98.8±0.3	(298)	ME	[86/4]
$C_8H_8O_2$	2,5-dimethyl-1,4-benzoquinone				[137-18-8]
	(273–293)	77.0	(283)	QF	[27/2][60/1] [87/4]
$C_8H_8O_2$	4-hydroxyacetophenone				[99-93-4]
	(320–349)	95.7	(335)		[87/4][60/14]
$C_8H_8O_2S$	phenyl vinyl sulfone				[5535-48-8]
		82±2.5		B	[69/11][77/1]
$C_8H_8O_3$	2-methoxybenzoic acid				[579-75-9]
	(318–353)	101.2	(333)		[87/4]
	(319–324)	104.7±0.3	(322)	ME	[78/7]
	(353–368)	90.8±0.4	(360)	GS	[73/2][87/4]
	(353–368)	90.9	(360)	GS	[54/1][60/1]
$C_8H_8O_3$	3-methoxybenzoic acid				[586-38-9]
	(318–326)	107.5±0.4	(322)	ME	[87/4][78/7]
$C_8H_8O_3$	4-methoxybenzoic acid				[100-09-4]
	(334–344)	109.8±0.6	(339)	ME	[87/4][78/7]
$C_8H_8O_3$	2-hydroxy-3-methoxybenzaldehyde				[148-53-8]
	(282–303)	54.1	(292.5)		[87/4]
$C_8H_8O_3$	4-hydroxy-3-methoxybenzaldehyde (vanillin)				[121-33-5]
	(293–353)	88.7	(323)		[53/7][60/1]
C_8H_9NO	acetanilide				[103-84-4]
	(303–324)	80.6	(313.5)		[87/4][55/3]
	(317–336)	87.2	(326.5)		[87/4][60/21]
C_8H_9NO	3-methylbenzaldoxime				[41977-54-2]
anti		U 31±1.7		MS	[83/9]
C_8H_9NO	4-methylbenzaldoxime				[3235-02-7]
anti		U 36±1.7		MS	[83/9]
C_8H_9NO	2-phenylacetamide				[103-81-1]
	(329–352)	96.4	(340.5)		[87/4][60/21]
C_8H_9NO	4-aminoacetophenone				[99-92-3]
	(314–338)	92.7	(326)		[87/4][60/21]
C_8H_9NO	N-methylbenzamide				[613-93-4]
	(297–321)	75	(309)		[87/4][55/3]
	(307–329)	85.7	(318)		[87/4][60/21]
$C_8H_9NO_2$	2-amino-3-methylbenzoic acid				[4389-45-1]
	(343–357)	105.8±0.6	(350)	ME	[01/20]
		107.3±1.8	(298)	ME	[01/20]
$C_8H_9NO_2$	2-amino-5-methylbenzoic acid				[2941-78-8]
	(345–361)	108.9±0.5	(353)	ME	[01/20]
		110.6±1.9	(298)	ME	[01/20]
$C_8H_9NO_2$	2-amino-6-methylbenzoic acid				[4389-50-8]
	(339–355)	114.7±1.2	(347)	ME	[01/20]
		116.1±2.0	(298)	ME	[01/20]
$C_8H_9NO_2$	3-amino-2-methylbenzoic acid				[52130-17-3]
	(367–381)	125.6±0.8	(374)	ME	[01/20]
		127.8±2.6	(298)	ME	[01/20]
$C_8H_9NO_2$	3-amino-4-methylbenzoic acid				[2458-12-0]
	(363–377)	117.3±0.9	(370)	ME	[01/20]
		119.4±2.5	(298)	ME	[01/20]
$C_8H_9NO_2$	4-amino-3-methylbenzoic acid				[2486-70-6]
	(367–383)	119.8±0.7	(375)	ME	[01/20]
		122.0±2.6	(298)	ME	[01/20]
$C_8H_9NO_2$	N-phenylglycine				[103-01-5]
		114.1±1.0	(365.4)	C	[80/29]
		128.0±2.0	(298)		[80/29]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_8H_9NO_2$	D α-phenylglycine				[875-74-1]
		148.9±2.2	(443)	C	[80/29]
		165.0±6.0	(298)	C	[80/29]
$C_8H_9NO_2$	2-methoxybenzaldoxime				[29577-53-5]
anti		U 20.1±1.7		MS	[83/9]
syn		U 32.6±1.7		MS	[83/9]
$C_8H_9NO_2$	4-methoxybenzaldoxime				[5235-04-9]
anti		U 67.3±1.7		MS	[83/9]
$C_8H_9NO_2$	methyl 2-aminobenzoate				[134-20-3]
	(287–298)	78.4	(292.5)	ME	[87/4][54/4]
					[60/1]
$C_8H_9NO_7$	methyl 5-nitro-2-acetoxy-2,5-dihydro-2-furancarboxylate				[22401-53-2]
		89.1±2.1			[80/28][86/5]
C_8H_{10}	1,2-dimethylbenzene				[95-47-6]
		60.1	(248)	B	[86/12]
C_8H_{10}	1,4-dimethylbenzene				[106-42-3]
	(247–286)	59.4	(271)		[87/4][74/32]
		60.8	(286)	B	[86/12]
$C_8H_{10}NO_5PS$	methyl parathion (O,O-dimethyl-O-4-nitro-phenylthiophosphate)				[298-00-0]
	(298–308)	125.1	(303)	GS,A	[84/33]
	(278–288)	108.7	(283)	GS	[83/5][79/10]
$C_8H_{10}N_2O$	4-N,N-dimethylaminonitrosobenzene				[138-89-6]
	(323–334)	82.0±1.7	(298)	ME	[94/29]
$C_8H_{10}N_2O_2$	N,N-dimethyl-3-nitroaniline				[619-31-8]
		92.7±0.3	(298)	C	[85/5]
$C_8H_{10}N_2O_2$	N,N-dimethyl-4-nitroaniline				[100-23-2]
		102.7±1.1	(298)	C	[85/5]
	(344–366)	98.7±1.7	(355)	ME	[87/4][56/2]
	(372–393)	101.3±2.0	(298)	ME	[94/29]
$C_8H_{10}N_4O_2$	caffeine (1,3,7-trimethylxanthine)				[58-08-2]
form I	(413–463)	104.8±0.2	(438)	T	[99/40]
form I		115	(298)		[99/40]
form II	(413–463)	113.6±0.2	(369)	T	[99/40]
form II		119	(298)		[99/40]
		105.1±0.7		ME	[85/22]
	(373–473)	103.6	(423)	UV	[84/37]
form I	(446–509)	100.0±0.6	(478)	MM	[79/17]
form I		110	(298)		[79/17][99/40]
form II	(446–509)	110.7±0.7	(362)	MM	[79/17]
form II		114	(298)		[79/17][99/40]
$C_8H_{10}O$	4-ethylphenol				[123-07-9]
	(278–317)	80.3±0.5		GS	[63/3][70/1]
					[87/4]
$C_8H_{10}O$	2,3-dimethylphenol				[526-75-0]
	(283–323)	84.±1.0		GS	[60/3][70/1]
					[87/4]
$C_8H_{10}O$	2,4-dimethylphenol				[105-67-9]
	(282–318)	65.9±0.2		GS	[60/3][70/1]
$C_8H_{10}O$	2,5-dimethylphenol				[95-87-4]
	(282–323)	85.0±0.25		GS	[60/3][70/1]
					[87/4]
$C_8H_{10}O$	2,6-dimethylphenol				[576-26-1]
	(277–313)	75.6±0.17		GS	[60/3][70/1]
					[87/4]
$C_8H_{10}O$	3,4-dimethylphenol				[95-65-8]
	(282–323)	85.7±0.1		GS	[60/3][70/1]
					[87/4]
$C_8H_{10}O$	3,5-dimethylphenol				[108-68-9]
	(282–323)	82.8±0.3		GS	[60/3][70/3]
					[87/4]
$C_8H_{10}O_2$	2,5-dimethylhydroquinone				[615-90-7]
	(332–361)	100.8		QF	[27/2][60/1]
$C_8H_{10}O_2$	1,4-dimethoxybenzene				[150-78-7]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		84.1±2.3	(298)		[00/24]
$C_8H_{10}O_2S$	methyl-*p*-tolyl sulfone				[3185-99-7]
		100±3.3			[U/3][70/1]
$C_8H_{10}O_2S$	methyl benzyl sulfone				[3112-90-1]
		99.2±3			[U/3][70/1]
$C_8H_{11}N$	1-norbornylisocyanide				[103434-09-9]
		60.6±0.5	(298)		[87/17]
$C_8H_{11}N_5$	8-ethyl-9-methyladenine				[116988-56-8]
		127.1±0.7			[94/6]
	(365–370)	115.2±1.0	(368)	ME	[87/7]
$C_8H_{11}N_5$	6,8,9-trimethyladenine				[139909-51-6]
	(334–342)	98.6±0.2	(338)	ME	[94/6]
C_8H_{12}	bicyclo[2.2.2]octene				[931-64-6]
		43.8±0.4		C	[70/5][77/1]
					[71/10]
$C_8H_{12}N_2$	tetramethylsuccinonitrile				[3333-52-6]
		81.2±1.7			[73/8][77/1]
$C_8H_{12}N_2$	tetramethylpyrazine				[1124-11-4]
		94.6±4.0	(298)	C	[96/28]
$C_8H_{12}N_2O_2$	1,3-dimethyl-5-ethyluracil				[31703-08-9]
	(312–321)	98.7±1.7	(316)	ME	[96/5]
	(300–316)	99.3±0.2	(308)	ME	[83/14]
	(319–340)	110±1.2	(330)	QR	[83/14]
$C_8H_{12}O_2$	4,4-dimethyl-1,3-cyclohexanedione				[562-46-9]
		99.2±2.1	(298)	ME	[93/23]
$C_8H_{12}O_2$	5,5-dimethyl-1,3-cyclohexanedione				[126-81-8]
		99.8±1.1	(298)	ME	[93/23]
$C_8H_{12}O_2$	2,2,4,4-tetramethyl-1,3-cyclobutanedione				[933-52-8]
		70.3±3.5		HSA	[75/3]
		72.2±0.6			[71/5]
		72.4±0.6		C	[71/23]
C_8H_{14}	bicyclo[2.2.2]octane				[280-33-1]
	(323–363)	46.3±0.8		BG	[71/1][77/1]
					[87/4]
		47.7±0.8	(298)	HA	[71/1][77/1]
		48.0±2		C	[70/5][71/1]
					[77/1]
	solid phase transition	4.6	(164)		[84/25]
C_8H_{14}	3,4-dimethyl-2,4-hexadiene				
		53.1			[56/7][60/1]
$C_8H_{14}ClN_5$	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine (atrazine)				[1912-24-9]
	(324–354)	114.6	(339)	GS	[82/23]
	(323–403)	113.8	(338)	GS–GC	[64/14][87/4]
$C_8H_{14}N_2$	1,4-dimethyl-2,3-diazabicyclo[2.2.2]octane				[49570-30-1]
		72.0±0.5	(298)	C	[76/12]
$C_8H_{14}N_2O_2$	α-acetylproline N-methylamide				[19701-85-0]
	(308–318)	69.1	(313)		[87/4][55/7]
$C_8H_{14}N_2O_2$	β-acetylproline N-methylamide				
	(319–335)	60.7	(327)		[87/4][55/7]
$C_8H_{14}O$	3-oxabicyclo[3.2.2]nonane				[283-27-2]
		53.1±0.5			[71/10][77/1]
$C_8H_{14}O_4$	1,8-octanedioic acid (suberic acid)				[505-8-6]
	(310–320)	148		TPTD	[01/15]
		147.8±3.8	(298)		[99/10][60/4]
	(379–407)	143.1±3.8	(393)	M	[60/4][70/1]
					[87/4]
$C_8H_{14}O_6$	(*d*)-dimethoxysuccinic acid dimethyl ester				
		53.1			[37/6]
$C_8H_{14}O_6$	(*dl*)-dimethoxysuccinic acid dimethyl ester				
		57.7			[37/6]
$C_8H_{14}O_6$	*meso* dimethoxysuccinic acid dimethyl ester				
		74.1			[37/6]
$C_8H_{15}N$	3-azabicyclo[3.2.2]nonane				[283-24-9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		57.8±1.3	(298)	C	[70/5]
$C_8H_{15}NO$	*trans* 2-octenoic acid amide				
	(373–393)	73.5	(383)		[87/4]
$C_8H_{15}N_5O$	2-methoxy-4,6-*bis*(ethylamino)-1,3,5-triazine				[673-04-1]
	(323–403)	98.2	(338)	GS–GC	[87/4][64/14]
$C_8H_{15}N_5S$	2-methylthio-4,6-*bis*(ethylamino)-1,3,5-triazine			GS–GC	[1014-70-6]
	(323–355)	101.3	(338)		[87/4][64/14]
$C_8H_{15}N_5S$	2-methylthio-4-methylamino-6-isopropyl-1,3,5-triazine			GS–GC	[1014-69-3]
	(323–357)	101.5	(338)		[87/4][64/14]
$C_8H_{15}N_7O_2S_3$	3-[[[2-[(aminoiminomethyl)aminol]-4-thiazolyl]methyl]thio]-N-(aminosulfonyl)propanimidamide (famotidine)				[76824-35-6]
		207.0		TGA	[97/36]
C_8H_{16}	cyclooctane				[292-64-8]
		58.7	(166)	B	[63/6]
$C_8H_{16}N_2O_2$	N-acetyl L-leucine amide				[28529-34-2]
		115.6±1.4	(376)	C	[99/12]
		119.8±1.5	(298)		[99/12]
$C_8H_{16}N_2O_2$	N-acetyl D-leucine amide				[16624-68-3]
		114.8±0.3	(393)	C	[99/12]
		120.4±0.4	(298)		[99/12]
	(374–401)	101±3	(388)	TE	[88/6][86/16]
$C_8H_{16}N_2O_2$	N-acetyl L-isoleucine amide				[56711-06-9]
		142.7±0.2	(390)	C	[99/12]
		147.4±0.3	(298)		[99/12]
$C_8H_{17}NO$	octanamide				[629-01-6]
	(325–374)	110.5±2.9		GS,ME	[59/3][87/4]
$C_8H_{17}NO_2$	8-aminooctanoic acid				[1002-57-9]
	(391–402)	166.2±0.9	(397)	C	[83/24]
		170±4	(298)	C	[83/24]
C_8H_{18}	*n*-octane				[111-65-9]
		68.1	(216)	B	[63/6]
C_8H_{18}	2,2,3,3-tetramethylbutane				[594-82-1]
	(286–377)	43.6	(301)		[87/4]
	(273–338)	43.4±0.2	(298)		[52/1][70/1]
		42.9±0.9	(298)		[47/8]
	(263–279)	56.2		A,MG	[31/4]
	solid phase transition	2.0	(153)		[84/25]
$C_8H_{18}N_2O_2$	1,4-*bis*-(2-hydroxyethyl)piperazine				[122-96-3]
	(334–356)	104.1			[84/30]
$C_8H_{18}O$	1-octanol				[111-87-5]
		105.4±2.5	(244)		[65/6]
$C_8H_{18}O_2$	1,8-octanediol				[629-41-4]
		139.3±0.9	(298)	C	[90/14]
$C_8H_{18}O_2S$	di-*n*-butyl sulfone				[598-04-9]
		100.4±2.5			[U/3][70/1]
$C_8H_{18}O_2S$	di-*tert*-butyl sulfone				[1886-75-7]
		94.1±2.9			[U/3][70/1]
$C_9H_5BrClNO$	7-bromo-5-chloro-8-hydroxyquinoline				[7640-33-7]
	(353–368)	110.1±0.8	(361)	ME	[92/20]
		113.2±0.8	(298)		[92/20]
$C_9H_5Br_2NO$	5,7-dibromo-8-hydroxyquinoline				[521-74-4]
	(365–380)	113.6±1.3	(372)	ME	[92/20]
		117.3±1.3	(298)		[92/20]
	(363–393)	94.1			[63/5]
C_9H_5ClINO	5-chloro-7-iodo-8-hydroxyquinoline				[130-26-7]
	(359–378)	111.3±0.4	(368)	ME	[92/20]
		114.8±0.4	(298)		[92/20]
C_9H_5ClINO	5-iodo-7-chloro-8-hydroxyquinoline				[35048-13-6]
	(383–414)	131.0			[63/5]
$C_9H_5Cl_2NO$	5,7-dichloro-8-hydroxyquinoline				[773-76-2]
	(351–366)	106.3±0.7	(358)	ME	[92/20]
		109.3±0.7	(298)		[92/20]
	(363–393)	92.9			[63/5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_9H_5I_2NO$	5,7-diiodo-8-hydroxyquinoline				[83-73-8]
	(389–404)	121.9±0.8	(396)	ME	[92/20]
		126.8±0.8	(298)		[92/20]
	(403–423)	110.9			[63/5]
C_9H_6ClNO	5-chloro-8-hydroxyquinoline				[130-16-5]
	(317–327)	97.5±0.9	(322)	ME	[92/20]
		98.7±0.9	(298)		[92/20]
C_9H_6INO	5-iodo-8-hydroxyquinoline				[13207-63-1]
	(363–393)	118.8		ME	[63/5]
$C_9H_6N_2O_2$	5-nitroquinoline				[607-34-1]
	(310–324)	93.2±0.7	(317)	ME	[97/2]
		94.2±0.7	(298)		[97/2]
$C_9H_6N_2O_2$	6-nitroquinoline				[613-50-3]
	(336–350)	101.5±1.0	(343)	ME	[97/2]
		103.8±1.0	(298)		[97/2]
$C_9H_6N_2O_2$	8-nitroquinoline				[607-35-2]
	(338–352)	104.3±0.9	(345)	ME	[97/2]
		106.7±0.9	(298)		[97/2]
$C_9H_6N_2O_3$	5-nitro-8-hydroxyquinoline				[4008-48-4]
	(352–362)	114.1±2.2	(298)	ME	[89/2]
		111.2±3.0	(298)	C	[89/2]
$C_9H_6O_2$	coumarin				[91-64-5]
		83.1	(298)	C	[91/12]
	(293–353)	86.2	(323)	ME	[53/7][60/1] [87/4]
$C_9H_6O_2$	chromone				[491-38-3]
		81.3±0.2	(298)	C	[88/13]
$C_9H_6O_6$	1,3,5-benzenetricarboxylic acid				[554-95-0]
	(553–593)	159.4	(573)	GS	[87/4][62/2]
$C_9H_6S_3$	5-phenyl-1,2-dithiole-3-thione				[3445-76-9]
	(363–373)	117.4±0.4	(368)		[72/16]
		123.3±0.4	(298)		[72/16]
C_9H_7NO	2-hydroxyquinoline				[59-31-4]
	(375–390)	115.2±0.6	(383)	ME	[90/1]
		119.4±0.6	(298)		[90/1]
C_9H_7NO	4-hydroxyquinoline				[611-36-9]
	(415–433)	128.8±1.1	(424)	ME	[90/1]
		135.1±1.1	(298)		[90/1]
C_9H_7NO	8-hydroxyquinoline				[148-24-3]
	(293–303)	89.5±0.9	(298)	ME	[89/2]
		89.0±1.4	(298)	C	[89/2]
	(308–328)	108.8±1.7		ME	[63/5][70/1] [87/4]
$C_9H_7N_3O_2$	5-amino-6-nitroquinoline				[35975-00-9]
	(400–424)	130.7±0.8	(412)	ME	[98/11]
		136.4±0.8	(298)		[98/11]
C_9H_7NO	Ω-cyanoacetophenone				[614-16-4]
	(318–333)	99.8	(325.5)		[87/4]
		92.5±4.2		ME	[69/9][77/1]
$C_9H_7NO_2$	N-methylphthalimide				[550-44-7]
	(298–316)	91.1±0.5	(307)	ME	[97/12]
		91.1±0.5	(298)		[97/12]
$C_9H_8N_2$	3-aminoquinoline				[580-17-6]
	(329–345)	101.1±0.9	(337)	ME	[93/10]
		103.1±0.9	(298)		[93/10]
		104.8±4.8	(298)	C	[93/10]
$C_9H_8N_2$	5-aminoquinoline				[611-34-7]
	(329–349)	102.9±0.7	(339)	ME	[93/10]
		105.0±0.7	(298)		[93/10]
		103.3±3.4	(298)	C	[93/10]
$C_9H_8N_2$	6-aminoquinoline				[580-15-4]
	(333–349)	103.6±1.0	(341)	ME	[93/10]
		105.7±1.0	(298)		[93/10]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
$C_9H_8N_2$	8-aminoquinoline				[578-66-5]
	(329–314)	93.0	(305)	ME	[93/10]
		93.3±0.5	(298)		[93/10]
$C_9H_8N_2O$	2-methyl-3-hydroxyquinoxaline				[14003-34-0]
	(375–391)	117.2±0.4	(383)	ME	[00/26]
		119.7±2.8	(298)	ME	[00/26]
		123.0±4.4	(298)	C	[00/15]
$C_9H_8N_2O_2$	2-methylquinoxaline-1,4-dioxide				[6639-86-7]
		107.0±6.2	(298)	C	[97/25]
$C_9H_8N_2O_2$	3-methylaminophthalimide				[5972-09-8]
	(402–450)	104.9	(417)	RG	[87/4][56/13]
C_9H_8O	1-indanone				[83-33-0]
	(288–308)	83.5±0.7	(298)	GS	[98/21]
$C_9H_8O_2$	*trans*-cinnamic acid				[140-10-3]
	(333–347)	105.0±0.8	(340)	ME	[99/27]
	(333–347)	107.1±0.8	(298)	ME	[99/27]
$C_9H_8O_2S$	phenyl propadienyl sulfone				[2525-42-0]
		105.4±2.5			[69/13][70/1]
$C_9H_8O_2S$	phenyl prop-1-ynyl sulfone				[2525-41-9]
		95.4±2.5		B	[69/13][70/1]
$C_9H_8O_2S$	phenyl prop-2-ynyl sulfone				[2525-40-8]
		105.±2.5		B	[69/13][70/1]
$C_9H_8O_3$	*endo*-5-norbornene-2,3-dicarboxylic anhydride				[129-64-6]
		97±4.2	(298)	MG	[73/17][77/1]
$C_9H_8O_4$	monomethyl terephthalate				[1679-64-7]
	(433–493)	72.1	(448)		[87/4]
	(433–493)	82.8	(473)	GS	[62/2]
		130.4			[98/28]
C_9H_9N	2,6-dimethylbenzonitrile				[21789-36-6]
		83.9±2.8	(298)	C	[91/3]
C_9H_9N	3-methylindole				[83-34-1]
	(288–333)	83.3	(303)		[87/4]
$C_9H_9NO_2$	4-acetomidobenzaldehyde				[122-85-0]
	(328–346)	99	(337)		[87/4][60/21]
$C_9H_9N_3O_6$	2,4,6-trinitromesitylene				[602-96-0]
	(319–397)	103.6±1.2		ME	[87/4][78/15]
$C_9H_{10}Cl_2N_2O$	3-(3,4-dichlorophenyl)-1,1-dimethylurea (diuron)				[330-54-1]
		119±0.6	(393)	C	[97/17]
		133.9±0.7	(298)		[97/17]
$C_9H_{10}N_2O$	1-phenyl-3-pyrazolidinone				[92-43-3]
	(327–348)	84.3	(337.5)		[87/4][60/21]
$C_9H_{10}O$	*trans* 3-phenyl-2-propen-1-o1				[4407-36-7]
	(288–307)	109.6	(297.5)		[87/4]
		69.5		ME	[54/4]
$C_9H_{10}O_2$	2-ethylbenzoic acid				[612-19-1]
	(298–313)	100.5	(305.5)	ME	[87/4][76/6]
		101.1±0.4	(298)	ME	[84/1]
	(298–313)	100.7±2.5	(298)	ME	[76/6]
$C_9H_{10}O_2$	3-ethylbenzoic acid				[619-20-5]
	(300–318)	99.1	(309)	ME	[87/4][76/6]
		99.7±0.4	(298)	ME	[84/1]
	(300–318)	99.1±2.5	(298)	ME	[76/6]
$C_9H_{10}O_2$	4-ethylbenzoic acid				[619-64-7]
	(310–329)	98.2	(319.5)	ME	[87/4][76/6]
		98.9±0.2	(298)	ME	[84/1]
	(311–330)	97.6±0.2	(321)	ME	[84/1]
	(320–329)	97.5±2.5	(298)	ME	[76/6]
$C_9H_{10}O_2$	4-acetylanisole				[100-06-1]
	(276–300)	77.7		V	[59/2]
	(283–333)	93.7	(308)		[54/4][60/1]
					[87/4]
$C_9H_{10}O_2$	2,3-dimethylbenzoic acid				[603-79-2]
	(316–337)	102.3±0.4	(326)	ME	[84/9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
		104.6±0.4	(298)	ME	[84/9]
$C_9H_{10}O_2$	2,4-dimethylbenzoic acid				[611-01-8]
	(312–331)	102.7±0.3	(321)	ME	[84/9]
		103.5±0.3	(298)	ME	[84/9]
$C_9H_{10}O_2$	2,5-dimethylbenzoic acid				[610-72-0]
	(315–334)	103.6±0.6	(324)	ME	[84/9]
		105.0±0.6	(298)	ME	[84/9]
$C_9H_{10}O_2$	2,6-dimethylbenzoic acid				[632-46-2]
	(309–324)	98.2±0.2	(317)	ME	[84/9]
		99.1±0.2	(298)	ME	[84/9]
$C_9H_{10}O_2$	3,4-dimethylbenzoic acid				[619-04-5]
	(325–347)	104.5±0.3	(336)	ME	[84/9]
		106.4±0.3	(298)	ME	[84/9]
$C_9H_{10}O_2$	3,5-dimethylbenzoic acid				[499-06-9]
	(322–341)	100.8±0.3	(332)	ME	[84/9]
		102.3±0.3	(298)	ME	[84/9]
$C_9H_{10}O_2$	3-methylphenyl acetate				[122-46-3]
	(274–317)	60.7	(295)	TE	[47/1][60/1]
$C_9H_{10}O_2S$	*p*-tolyl vinyl sulfone				[5535-52-4]
		82.4±2.5		B	[69/11][77/1]
$C_9H_{10}O_3$	3-ethoxy-4-hydroxybenzadehyde				[121-32-4]
	(296–338)	101.5	(311)		[87/4][57/3]
					[60/1]
$C_9H_{10}O_4$	2,3-dimethoxybenzoic acid				[1521-38-6]
	(336–356)	115.1±0.3	(346)	ME	[85/1]
		116.6±0.3	(298)	ME	[85/1]
$C_9H_{10}O_4$	2,4-dimethoxybenzoic acid				[91-52-1]
	(346–367)	120.5±0.4	(357)	ME	[85/1]
		123.4±0.4	(298)	ME	[85/1]
$C_9H_{10}O_4$	2,6-dimethoxybenzoic acid				[1466-76-8]
	(335–378)	118.4±0.4	(367)	ME	[85/1]
		121.7±0.4	(298)	ME	[85/1]
$C_9H_{10}O_4$	3,4-dimethoxybenzoic acid				[93-07-2]
	(359–378)	126.1±0.6	(369)	ME	[85/1]
		129.8±0.6	(298)	ME	[85/1]
$C_9H_{10}O_4$	2,5-dimethoxybenzoic acid				[2785-98-0]
	(324–342)	113.3±0.7	(333)	ME	[96/15]
		116.1±0.7	(298)		[96/15]
$C_9H_{10}O_4$	3,5-dimethoxybenzoic acid				[1132-21-4]
	(356–376)	124.5±0.6	(369)	ME	[85/1]
		127.1±0.6	(298)	ME	[85/1]
$C_9H_{10}O_5$	2-(diacetoxymethyl)furan				[613-75-2]
		109.6±2.5			[80/28][86/5]
$C_9H_{11}ClN_2O$	3-(4-chlorophenyl)-1,1-dimethylurea				[150-68-5]
	(303–379)	114.6±4.9	(341)	ME,C	[87/4][72/9]
$C_9H_{11}NO$	N-(2-methylphenyl)acetamide				[120-66-1]
	(315–340)	96.8	(327.5)		[87/4][60/21]
$C_9H_{11}NO$	N-(4-methylphenyl)acetamide				[103-89-9]
	(331–350)	99.0	(341)		[60/21]
$C_9H_{11}NO$	N,N-dimethylbenzamide				[611-74-5]
	(289–305)	89.7±0.3	(298)		[95/11]
$C_9H_{11}NO_2$	2,4,6-trimethylnitrobenzene				[603-71-4]
		78.6±1.0	(298)	C	[93/3][93/21]
$C_9H_{11}NO_2$	L-(*l*)-phenylalanine				[63-91-2]
	(342–442)	U 90±6.3	(392)	LE	[77/2]
		154±8	(455)	ME	[65/1][70/1]
					[87/4][64/16]
$C_9H_{11}NO_3$	L-tyrosine				[60-18-4]
	(412–512)	101±8	(462)	LE	[77/2]
$C_9H_{11}NS$	N,N-dimethylthiobenzamide				[15482-60-7]
		94.8±2.0	(298)	C	[89/11]
$C_9H_{13}ClN_6$	2-[(4-chloro-6-ethylamino-*s*-triazin-2-yl)amino]-2-methylpropionitrile				
	(cyanazine)				[21725-46-2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(339–365)	90.7	(352)	GS	[82/23]
$C_9H_{12}F_3N_3O_5$	N-[N-(N-[trifluoroacetyl]glycyl)glycyl]glycine methyl ester				[651-18-3]
	(343–433)	133.4	(358)		[87/4][60/20]
$C_9H_{12}N_2$	N-methyl-7-(methylimino)-1,3,5-cycloheptatrienylamine				[1502-10-9]
		49.4±4			[71/3][77/1]
$C_9H_{12}N_2O_2$	3-ethoxyphenylurea				[13142-86-4]
		75.3±8.3		E	[54/12][70/1]
$C_9H_{12}N_2O_2$	4-ethoxyphenylurea				[150-69-6]
		83.7±8.3		E	[54/12][70/1]
$C_9H_{12}O$	2,3,6-trimethylphenol				[2416-94-6]
		86.7±0.6	(298)	GS	[99/17]
$C_9H_{12}O$	2,4,6-trimethylphenol				[527-60-6]
		82.8±0.3	(298)	GS	[99/17]
		95.0	(298)	C	[71/24][99/17]
$C_9H_{12}O$	α,α-dimethylbenzyl alcohol				[617-94-7]
	(276–302)	82.8±0.7	(289)	GS	[99/18]
		82.3±0.7	(298)		[99/18]
$C_9H_{12}O_2$	3-isopropyl-1,2-dihydroxybenzene				[2138-48-9]
		97.8±1.7	(298)	C	[84/10]
$C_9H_{12}O_2$	1,2,3-trimethoxybenzene				[634-36-6]
	(375)	98.0±0.3	(298)	C	[00/24]
$C_9H_{12}O_2$	1,3,5-trimethoxybenzene				[621-23-8]
	(375)	100.6±1.9	(298)	C	[00/24]
$C_9H_{13}N_5$	6,9-dimethyl-8-ethyladenine				[139909-52-7]
	(345–351)	94.1±0.1	(348)	ME	[94/6]
$C_9H_{13}N_5$	8-propyl-9-methyladenine				[117954-97-9]
	(364–370)	124.2±0.8	(367)	ME	[87/7]
C_9H_{14}	bicyclo[3.2.2]non-6-ene				[7124-86-9]
		48±1.0	(298)	C	[82/4]
C_9H_{14}	bicyclo[3.3.1]non-2-ene				[6671-66-5]
		48.2±0.4	(298)	C	[82/4]
C_9H_{14}	bicyclo[4.2.1]non-3-ene				[1456-33-0]
		49.7±0.8	(298)	C	[82/4]
$C_9H_{14}N_2O_2$	1,3-dimethyl-5-propyluracil				[82413-39-6]
	(317–327)	111.0±1.6	(322)	ME	[96/5]
$C_9H_{14}N_2O_2$	1,3-dimethyl-5-isopropyluracil				[175412-48-3]
	(316–328)	102.9±1.6	(322)	ME	[96/5]
$C_9H_{14}N_2O_2$	1,3-diethylthymine				[21472-93-5]
		89.8±0.4	(298)	C	[80/7]
	(307–325)	95.0±2.1	(317)	QR	[80/19]
C_9H_{16}	bicyclo[3.3.1]nonane				[260-65-9]
		50.6±2	(298)	TSGC	[77/9]
$C_9H_{16}ClN_5$	2-chloro-4,6-*bis*(isopropylamino)-1,3,5-triazine				[139-40-2]
	(323–403)	125.1	(338)	GS–GC	[87/4][64/14]
$C_9H_{16}NO_2$	2,2,6,6-tetramethyl-4-oxopiperidine-1-oxyl				[2896-70-0]
		83.3±1.7		ME	[65/7][70/1]
					[87/4]
$C_9H_{16}N_2$	2-methyl-2-piperidinopropionitrile				[2273-41-8]
		80.3±0.5	(298)		[97/28]
$C_9H_{16}O_4$	nonanedioic acid				[123-99-9]
	(367–377)	156.2±0.5	(372)	ME	[99/10]
		159.9±1.0	(298)		[99/10]
$C_9H_{17}NO$	2,2,6,6-tetramethyl-4-oxopiperidine				[2896-70-0]
		60.8±2.7		ME	[66/4][70/1]
$C_9H_{17}NO$	*trans* 2-nonenoic acid amide				[14952-05-7]
	(383–393)	111.9	(388)		[87/4]
$C_9H_{17}NO_2$	2,2,6,6-tetramethyl-1-hydroxy-4-oxopiperidine				[3637-11-4]
	(288–328)	80	(303)		[87/4]
		80.1±4.6		ME	[65/7][70/1]
$C_9H_{17}N_5O$	2-methoxy-4-ethylamino-6-isopropylamino-1,3,5-triazine				[1610-17-9]
	(323–403)	94.4	(338)	GS–GC	[87/4][64/14]
$C_9H_{17}N_5S$	2-methylthio-4-ethylamino-6-isopropylamino-1,3,5-triazine				[834-12-8]
	(323–403)	100.9	(338)	GS–GC	[87/4][64/14]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_9H_{18}NO_2$	2,2,6,6-tetramethyl-4-hydroxypiperidine-1-oxyl				[2226-96-2]
	(293–318)	101.5±5.2	(306)	ME	[66/4][70/1]
$C_9H_{18}N_2OS$	N,N-diethyl-N′-isobutanoylthiourea				
	(363)	120.8±2.5	(298)	C	[01/9]
$C_9H_{18}N_2O_2S$	3,3-dimethyl-1-(methylthio)-2-butanone O-((methylamino)carboxyl)-oxime				[39196-18-4]
	(298–328)	93.5±6	(308)	ME	[87/4][76/11]
$C_9H_{18}O_3$	di-*tert*-butylcarbonate				[34619-03-9]
		65.4±0.2	(298)	C	[85/17]
$C_9H_{19}NO$	nonamide				[1120-07-6]
	(353–370)	114.6±3.3		ME	[59/3]
$C_9H_{19}NO_2$	2,2,6,6-tetramethyl-1,4-dihydroxypiperidine				[3637-10-3]
	(318–348)	100.4±0.6	(328)	ME	[66/4][70/1]
C_9H_{20}	*n*-nonane				[111-84-2]
		74.6	(219)	B	[63/6]
		71.4	(298)	H	[63/6][93/16]
$C_9H_{20}N_2S$	1,3-dibutylthiourea				[109-46-6]
		141.0±2	(298)	B,HA	[00/23]
		137±3.0	(298)	C	[94/17]
$C_9H_{20}N_2S_2$	diethylammonium diethyldithiocarbamate				[1518-58-7]
		111.8±3.0			[79/14]
$C_9H_{20}O$	di-*tert*-butylmethanol				[14609-79-1]
		62.7±0.9	(298)		[98/22]
$C_9H_{20}O_2$	1,9-nonanediol				[3937-56-2]
		148.7			[90/14]
$C_{10}F_8$	octafluoronaphthalene				[313-72-4]
	(293–323)	79.4±2.5	(308)	ME	[87/4][74/9]
$C_{10}H_2O_6$	1,2,4,5-benzenetetracarboxylic dianhydride (pyromellitic dianhydride)				[89-32-7]
		100.4	(559)		[75/11]
		88.4			[67/15]
$C_{10}H_6BrNO_2$	1-(4-bromophenyl)-1*H*-pyrrole-2,5-dione				[13380-67-1]
	(350–370)	105.9±0.7		C	[98/25]
$C_{10}H_6Cl_4O_4$	dimethyltetrachloroterephthalane (chlorthal)				[1861-32-1]
	(348–433)	104.9±1.4	(390)	ME,GS	[81/20]
$C_{10}H_6N_2$	2-cyanoquinoline				[1436-43-7]
		89.3±3.3	(298)	C	[95/14]
	(312–326)	93.4±0.7	(319)	ME	[95/14]
		94.4±0.7	(298)		[95/14]
$C_{10}H_6N_2$	3-cyanoquinoline				[34846-64-5]
		91.3±1.8	(298)	C	[95/14]
	(312–326)	93.4±0.7	(319)	ME	[95/14]
		93.2±0.8	(298)		[95/14]
$C_{10}H_6N_2O_4$	1-(3-nitrophenyl)-1*H*-pyrrole-2,5-dione				[7300-93-8]
	(350–370)	115.7±0.9		C	[98/25]
$C_{10}H_6N_2O_4$	1-(4-nitrophenyl)-1*H*-pyrrole-2,5-dione				[4338-06-1]
	(350–370)	117.3±1.2		C	[98/25]
$C_{10}H_6O_2$	1,4-naphthoquinone				[130-15-4]
		91.0±0.8	(298)	C	[89/21]
	(301–325)	90.7±2	(313)	TE,ME	[81/4]
		72.4±3.8			[56/5][70/1]
$(C_{10}H_6O_2)$–$(C_{10}H_8O_2)$	(1,4-naphthoquinone)-(1,4-naphthohydroquinone)				[21414-85-7]
	(330–351)	102.3±2	(342.4)	ME,TE	[81/4]
$2(C_{10}H_6O_2)$–$(C_{10}H_8O_2)$	2(1,4-naphthoquinine)-(1,4-naphthohydroquinone)				[66653-77-8]
	(315–340)	88.7±3	(328.5)	ME,TE	[81/4]
$C_{10}H_7Br$	2-bromonaphthalene				[580-13-2]
		81.2±1.0	(298)		[93/13]
	(275–378)	64±5	(298)	TE,ME	[81/6]
$C_{10}H_7Cl_7$	dihydroheptachlor				[2589-15-3]
	(333–353)	83.8	(343)	ME	[87/4][74/36]
$C_{10}H_7F_3O_2$	benzoyltrifluoracetone				[326-06-7]
		87.1±0.9	(298)	ME	[92/28]
$C_{10}H_7I$	2-iodonaphthalene				[612-55-5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		90.8			[56/10]
$C_{10}H_7NO_2$	1-nitronaphthalene				[86-57-7]
	(309–326)	68.5±1.9	(318)	ME	[87/4][74/9]
	(325–332)	106.9±2.1	(328.5)	ME	[87/4][50/2]
					[70/1]
$C_{10}H_7NO_2$	1-nitroso-2-naphthol				[131-91-9]
		86.6±4.2		ME	[68/6][77/1]
$C_{10}H_7NO_2$	2-nitroso-1-naphthol				[132-53-6]
		56.5±4.2		ME	[68/6][77/1]
$C_{10}H_7NO_2$	4-nitroso-1-naphthol				[605-60-7]
		87.4±4.2		ME	[68/6][77/1]
$C_{10}H_7NO_2$	1-phenyl-1*H*-pyrrole-2,5-dione				[941-69-5]
	(350–370)	98.1±1		C	[98/25]
$C_{10}H_8$	azulene				[275-51-4]
	(283–326)	78.4±1.3	(303)	HSA	[98/5]
		72.7	(298)	CGC–DSC	[98/5]
	(290–372)	82.8	(305)		[87/4]
		82.9	(298)		[87/4][93/16]
	(253–293)	75.8	(273)		[58/1]
		75.3	(298)		[58/1][93/16]
		76.8±0.2		C	[72/1]
	(293–323)	95.4±0.4	(298)	ME	[62/1][70/1]
		67.6			[47/7]
$C_{10}H_8$	naphthalene				[91-20-3]
		70.4	(298)	CGC–DSC	[98/5]
	(313–353)	71.7	(333)	GS	[95/7]
	(243–273)	73.7±1.0	(258)	GS	[94/1]
	(337–352)	78.2±1		GC	[88/29]
		70.9±0.4	(323)	DSC	[88/4]
		72.3±0.4	(298)	DSC	[88/4]
	(283–323)	75.8±1.1	(303)	GS	[83/11]
		72.6±0.4		DSC	[83/8]
		72.6±0.1	(298)	TE,ME,DM	[83/1][81/1]
	(302–352)	72.8	(327)	GS	[82/23]
	(271–285)	72.8±0.3		ME	[82/1]
		72.4±0.7	(298)	C	[82/3]
	(274–353)	72.5±0.1		DM	[81/1]
	(253–273)	72.6±0.6		TE	[80/1]
	(280–305)	71.3	(293)	GS	[79/27]
	(253–273)	74.77±0.4		TE	[77/4]
	(253–273)	73.9±0.2		ME	[77/4]
	(303–329)	74.35±1.7		TSGC	[75/1]
		72.3±0.4		C	[76/1]
	(263–343)	72.5±0.3		DM	[75/4]
	(263–298)	67.8±3.5	(280)	HSA	[75/3]
		72.5	(298)	GS	[74/19]
	(281–297)	72.7±1.7	(289)	ME	[74/9]
	(281–290)	64±.5		LE	[73/15]
		72.1±0.25	(298)	C	[72/1]
		73.0±0.3	(298)	C	[72/2]
	(283–323)	72.7		ME	[71/31]
		66.5			[68/1]
	(230–260)	72.7±0.3		KG	[63/1][70/1]
	(276–283)	66.3		V	[59/2]
	(283–303)	65.8	(293)	ME	[58/18]
	(253–283)	69.2	(268)		[58/1]
	(273–311)	72.1	(292)		[57/9]
	(279–294)	72.4			[53/1][60/1]
					[54/10]
		64.0	(298)	ME	[51/12]
	(288–306)	65.7	(297)	ME	[40/1]
		66.5±1.7	(298)	QF	[38/1]
	(237–276)	76.6			[26/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(283–303)	82.0	(293)	ME	[25/3]
$C_{10}D_8$	naphthalene-d_8				[1146-65-2]
	(282–323)	70.6±0.5	(303)	GS	[83/11]
$C_{10}H_8Br_2N_2$	2,3-*bis*(bromomethyl)quinoxaline				[3138-86-1]
	(351–365)	111.7±0.5	(358)	ME	[00/26]
		114.0±2.0	(298)	ME	[00/26]
$C_{10}H_8NO_2$	indole-3-acetic acid				[87-51-4]
	(313–423)	64.0±1.5	(368)	ME	[88/4]
$C_{10}H_8N_2$	2,2′-bipyridine				[366-18-7]
		81.8±2.3	(298)	C	[95/26]
		75.0±5.0	(298)	B	[96/24]
		81.9±0.3			[85/6]
$C_{10}H_8N_2$	2,4′-bipyridine				[581-47-5]
		87.9±1.7	(298)	C	[95/26]
$C_{10}H_8N_2$	4,4′-bipyridine				[553-26-4]
		106.3±2.8	(298)	C	[95/26]
$C_{10}H_8N_2O_2$	8-nitroquinaldine				[881-07-2]
	(346–360)	108.3±0.8	(353)	ME	[97/2]
		111.0±0.8	(298)		[97/2]
$C_{10}H_8N_2O_3$	3-acetamidophthalimide				[6118-65-6]
	(428–468)	108.5	(443)	RG	[87/4][56/13]
$C_{10}H_8O$	1-naphthol				[90-15-3]
	(296–313)	91.2±0.4		ME	[74/3]
	(279–328)	89.1±1.7	(304)	ME	[74/5]
		91.5±3.8	(298)	B	[26/1][70/1]
					[27/1]
$C_{10}H_8O$	1-naphthol (α form)				
	(298–312)	93.3	(305)		[87/4][60/14]
$C_{10}H_8O$	1-naphthol (β form)				
	(314–324)	84.3	(319)		[87/4][60/14]
$C_{10}H_8O$	2-naphthol				[135-19-3]
	(305–323)	94.2±0.5		ME	[74/3]
	(277–324)	87.4±2.5	(300)	ME	[74/5]
	(283–323)	78.7±0.8	(298)		[68/1][77/1]
					[87/4]
		83.0±3.8	(298)	B	[26/1][27/1]
					[70/1]
$C_{10}H_8O$	2-naphthol (α form)				
	(298–312)	97.8	(305)		[87/4][60/14]
$C_{10}H_8O$	2-naphthol (β form)				
	(314–332)	87.8	(323)		[87/4][60/14]
$C_{10}H_8O$	1,6-oxido[10]annulene				[4759-11-9]
		80.4±8.4		B	[69/7][77/1]
$C_{10}H_8O_2$	1,4-naphthohydroquinone				[571-60-8]
		119±1	(381)	ME,TE	[81/4]
$C_{10}H_8O_2$	1,2-dihydroxynaphthalene				[574-00-5]
		109.3±0.9	(298)	C	[88/9]
$C_{10}H_8O_2$	1,3-dihydroxynaphthalene				[132-86-5]
		116.0±1.1	(298)	C	[88/9]
$C_{10}H_8O_2$	2,3-dihydroxynaphthalene				[92-44-4]
		109.6±1.0	(298)	C	[88/9]
	(341–359)	109.4±0.5	(350)	ME	[79/5]
$C_{10}H_9N$	1-naphthylamine				[134-32-7]
		90.0±4.2		TE	[47/1][70/1]
$C_{10}H_9N$	2-naphthylamine				[91-59-8]
	(283–323)	73.9	(298)		[87/4]
		74.1±1.7			[68/1][77/1]
		88.3±4.2			[47/2][70/1]
$C_{10}H_9NO$	β-cyanopropiophenone				[5343-98-6]
		101.7±4.2		ME	[69/9][77/1]
	(318–333)	108.5	(325.5)		[87/4]
$C_{10}H_9NO$	2-methyl-8-hydroxyquinoline				[826-81-3]
	(424–442)	132.2±1.0	(433)	ME	[90/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		139.0±1.0	(298)		[90/1]
	(296–307)	90.4±0.7		ME	[89/2]
		87.2±1.9		C	[89/2]
	(308–333)	87.9		ME	[87/4][63/5]
$C_{10}H_9NO$	4-methyl-2-hydroxyquinoline				[607-66-9]
	(391–405)	123.1±1.6	(398)	ME	[90/1]
		128.1±1.6	(298)		[90/1]
$C_{10}H_9NO_2$	indole-3-acetic acid				[87-51-4]
	(313–423)	64.0±1.4 U	(368)	ME	[88/14]
$C_{10}H_{10}$	bullvalene				[1005-51-2]
		71.8	(298)	C	[81/2]
$C_{10}H_{10}$	1,4-dihydronaphthalene				[612-17-9]
		63.6±1.6	(298)		[99/19]
$C_{10}H_{10}N_2$	2,3-dimethylquinoxaline				[2379-55-7]
	(294–308)	87.7±0.4	(301)	ME	[00/26]
		87.8±0.4	(298)	ME	[00/26]
		85.8±1.8	(298)	C	[96/28]
$C_{10}H_{10}N_2$	4-aminoquinaldine				[6628-04-2]
	(352–373)	112.1±0.8	(363)	ME	[98/11]
		115.3±0.8	(298)		[98/11]
$C_{10}H_{10}N_2$	1-benzylimidazole				[4238-71-5]
		102.1±0.4	(298)	ME	[99/20]
$C_{10}H_{10}N_2O_2$	3-dimethylaminophthalimide				
	(392–431)	90.9	(407)	RG	[87/4][56/13]
$C_{10}H_{10}O_2$	1-phenyl-1,3-butanedione				[93-91-4]
		91.0±0.6	(298)	ME	[92/28]
	(278–300)	83.7	(289)	V	[87/4][59/2]
$C_{10}H_{10}O_2S$	*p*-tolyl propadienyl sulfone				[16192-08-8]
		113±2.5		B	[69/13][70/1]
$C_{10}H_{10}O_2S$	*p*-tolyl prop-1-ynyl sulfone				[14027-53-3]
		103.3±2.5		B	[69/13][70/1]
$C_{10}H_{10}O_2S$	*p*-tolyl prop-2-ynyl sulfone				[16192-07-7]
		107.5±2.5		B	[69/13][70/1]
$C_{10}H_{10}O_3$	*cis*-2-methoxycinnamic acid				[14737-91-8]
	(339–352)	119.3±0.6	(346)	ME	[99/27]
	(339–352)	121.7±0.6	(298)	ME	[99/27]
$C_{10}H_{10}O_3$	*trans*-2-methoxycinnamic acid				[6099-03-2]
	(368–382)	124.9±0.6	(375)	ME	[99/27]
	(368–382)	128.8±0.6	(298)	ME	[99/27]
$C_{10}H_{10}O_3$	*trans*-3-methoxycinnamic acid				[6099-04-3]
	(353–367)	120.9±0.9	(360)	ME	[99/27]
	(353–367)	124.0±0.9	(298)	ME	[99/27]
$C_{10}H_{10}O_3$	*trans*-4-methoxycinnamic acid				[830-09-1]
	(369–383)	130.2±1.0	(376)	ME	[99/27]
	(369–383)	134.0±1.0	(298)	ME	[99/27]
$C_{10}H_{10}O_4$	dimethyl isophthalate				[120-61-6]
	(295–309)	100.7±0.2	(302)	ME	[98/1]
		100.9±0.2	(298)		[98/1]
		100.7	(298)		[98/28]
$C_{10}H_{10}O_4$	dimethyl terephthalate				[120-61-6]
	(311–330)	103.8±0.3	(321)	ME	[98/1]
		104.6±0.3	(298)		[98/1]
	(373–413)	94.4	(388)		[87/4]
	(373–413)	88.3	(393)	GS	[62/2]
		105.3			[98/28]
$C_{10}H_{11}N$	2,4,6-trimethylbenzonitrile				[2571-52-0]
		82.9±1.6	(298)	C	[91/3]
$C_{10}H_{11}NO$	2,4,6-trimethylbenzonitrile N-oxide				[2904-59-8]
		87.5±0.5	(314)	C	[93/12]
		87.9±1.9	(298)		[93/12]
	(300–338)	84.7±1.8	(319)	ME	[92/14]
		77.5±3.7	(298)	C	[91/3]
$C_{10}H_{11}NO$	3-amino-1-phenyl-but-2-enone				[1128-85-4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		109.4±2.1	(298)	C	[93/24]
		91.9±1.9	(298)	C	[91/3]
$C_{10}H_{11}NO_2$	N-phenyldiacetamide				[1563-87-7]
		90.±0.8	(298)	C	[65/8][70/1]
$C_{10}H_{11}NO_3$	2,4,6-trimethoxybenzonitrile				[2571-54-2]
		112.6±2.0	(298)	C	[91/3]
$C_{10}H_{11}NO_4$	2,4,6-trimethoxybenzonitrile N-oxide				[2904-59-8]
		100.4±2.2	(298)	C	[01/4]
$C_{10}H_{11}N_3O_2$	3-dimethylamino-6-aminophthalimide				[10495-38-2]
	(434–459)	108.8	(446)	RG	[87/4][56/13]
$C_{10}H_{12}$	cyclodeca-1,2,6,7-tetraene				[2451-55-6]
		73.0±0.4	(298)	C	[91/20]
$C_{10}H_{12}N_2O_2$	acetylglycine anilide				
	(362–365)	122.1	(363.5)		[87/4][55/7]
$C_{10}H_{12}O$	4-phenylburytric acid				[1821-12-1]
	(309–323)	112.4±0.8	(316)	ME	[01/10]
		113.0±1.0	(298)	ME	[01/10]
$C_{10}H_{12}O$	4-methoxy-α-methylstyrene				[1712-69-2]
		81.2±0.4	(298)		[99/19]
$C_{10}H_{12}O_2$	2-phenyl-2-methyl-1,3-dioxolane				[3674-77-9]
	(293–324)	81.9±0.5	(308)	T	[95/13]
$C_{10}H_{12}O_2$	2,3,6-trimethylbenzoic acid				[2529-36-4]
		104.4±0.2	(298)	ME	[87/15]
	(314–336)	103.6±0.2	(325)	ME	[87/15]
$C_{10}H_{12}O_2$	2,4,6-trimethylbenzoic acid				[480-63-7]
		103.6±0.3	(298)	ME	[87/15]
	(316–340)	102.5±0.3	(328)	ME	[87/15]
$C_{10}H_{12}O_2$	2,3,4-trimethylbenzoic acid				[1076-47-7]
		109.3±0.3	(298)	ME	[87/15]
	(329–351)	108.2±0.3	(340)	ME	[87/15]
$C_{10}H_{12}O_2$	2,3,5-trimethylbenzoic acid				[2437-66-3]
		106.7±0.3	(298)	ME	[87/15]
	(320–338)	105.7±0.3	(329)	ME	[87/15]
$C_{10}H_{12}O_2$	2,4,5-trimethylbenzoic acid				[528-90-5]
		109.6±0.5	(298)	ME	[87/15]
	(324–346)	108.3±0.5	(335)	ME	[87/15]
$C_{10}H_{12}O_2$	3,4,5-trimethylbenzoic acid				[1076-88-6]
		111.0±0.5	(298)	ME	[87/15]
	(340–359)	109.3±0.5	(350)	ME	[87/15]
$C_{10}H_{12}O_2$	2-isopropylbenzoic acid				[2438-04-2]
	(300–320)	100.2±0.4	(310)	ME	[87/11]
		101.0±0.4	(298)		[87/11]
$C_{10}H_{12}O_2$	3-isopropylbenzoic acid				[5651-47-8]
	(300–316)	103.3±0.3	(308)	ME	[87/11]
		104.1±0.3	(298)		[87/11]
$C_{10}H_{12}O_2$	4-isopropylbenzoic acid				[536-66-3]
	(316–334)	99.0±0.3	(324)	ME	[87/11]
		101.1±0.3	(298)		[87/11]
$C_{10}H_{12}O_2S$	*p*-tolyl *trans*-prop-1-enyl sulfone				[32228-15-2]
		83.7±2.1		B	[69/13][70/1]
$C_{10}H_{12}O_2S$	*p*-tolyl prop-2-enyl sulfone				[3112-87-6]
		95.8±2.9		B	[69/13][70/1]
$C_{10}H_{12}O_2S$	*p*-tolyl isopropenyl sulfone				[67605-02-1]
		88.7±2.5		B	[69/11][77/1]
$C_{10}H_{12}O_5$	3,4,5-trimethoxybenzoic acid				[118-41-2]
	(354–372)	127.9±0.8	(363)	ME	[01/16]
		131.2±0.8	(298)	ME	[01/16]
$C_{10}H_{13}NO$	N,N-dimethyl-3-toluamide				[6935-65-5]
	(373–405)	29.9	(388)	I	[87/4][69/25]
$C_{10}H_{13}NO_2$	*p*-phenacetin (4-ethoxyphenylacetamide)				[62-44-2]
	(312–387)	115.5±2.4		C,ME	[72/9][87/4]
$C_{10}H_{14}$	1,2,4,5-tetramethylbenzene				[95-93-2]
		71.7±0.3	(298)	C	[94/13]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(263–277)	74.6±0.3	(298)	ME	[89/18]
	(318–348)	71.3	(333)	A	[47/4]
		72.4	(298)	H	[47/4][93/16]
$C_{10}H_{14}$	1,2,3,4-tetramethylbenzene				[488-23-3]
		52.6±0.2 (vap)	(298)	C	[94/13]
		55.6	(298)		[94/13][90/23]
$C_{10}H_{14}$	1,2,3,5-tetramethylbenzene				[527-53-7]
		52.0±0.2 (vap)	(298)	C	[94/13]
		55.2	(298)		[94/13][90/23]
$C_{10}H_{14}NO_5PS$	ethyl parathion (O,O-diethyl-O-4-nitrophenylthiophosphate)				[56-38-2]
	(298–318)	100.6	(308)		[79/10][83/5]
$C_{10}H_{14}N_2O$	4-diethylaminonitrosobenzene				[120-22-9]
		107.9±3.7	(298)	C	[98/23]
$C_{10}H_{14}N_2O_4$	2,2-dinitroadamantane				[88381-75-3]
	(278–317)	96.4±1.4	(298)	T	[90/10]
$C_{10}H_{14}O$	3-*tert*-butylphenol				[585-34-2]
		88.9±0.5	(298)	C	[99/21]
	(278–319)	86.0±0.5	(298)	GS	[99/13]
	(266–299)	70.7	(281)		[87/4]
$C_{10}H_{14}O$	4-*tert*-butylphenol				[98-54-4]
		89.4±2.5	(298)	C	[99/21]
	(293–334)	85.0±0.5	(313)	GS	[99/13]
		85.9±0.5	(298)		[99/13]
	(280–304)	84.3	(292)		[87/4][60/14]
$C_{10}H_{14}O$	thymol				[89-83-8]
	(273–295)	75.1	(284)		[87/4][60/14]
	(293–323)	89.1±4.5	(303)	HSA	[75/3]
	(229–312)	U 69.0	(270)	TGA	[71/17]
	(273–313)	91.2±4.1		TE	[70/1][60/1] [47/1]
	(283–323)	91.5	(298)		[57/9][87/4]
$C_{10}H_{14}O$	adamantan-2-one				[700-58-3]
	(320–370)	79.7±2.1	(345)	BG	[78/8]
		80.3±2.5	(298)	BG	[78/8]
$C_{10}H_{14}O_2$	4-*tert*-butyl-1,2-dihydroxybenzene				[98-29-3]
	(303–323)	98.7±0.9	(313)	GS	[00/21]
		99.2±0.9	(298)	GS	[00/21]
		99.3±1.4	(298)	C	[84/20]
$C_{10}H_{14}O_2$	2-*tert*-butyl-1,4-dihydroxybenzene				[1948-33-0]
	(333–368)	101.2±1.3	(351)	GS	[99/28]
		104.4±1.3	(298)		[99/28]
$C_{10}H_{14}O_2$	3-*tert*-butyl-1,2-dihydroxybenzene				[4026-05-5]
	(334–384)	70.1±0.8 (liq)	(359)	GS	[00/21]
		73.5±0.8 (liq)	(298)	GS	[00/21]
$C_{10}H_{14}O_2$	6-methyl-3-isopropyl-1,2-dihydroxybenzene				[490-06-2]
		96.6±0.9	(298)	C	[84/20]
$C_{10}H_{15}NO$	(*dl*)-carvoxime				[55658-55-4]
	(324–343)	101.6±5	(334)	HSA	[81/8]
$C_{10}H_{15}NO$	(*d*)-carvoxime				[80124-30-7]
	(324–343)	90.8±4.5	(334)	HSA	[81/8]
$C_{10}H_{15}NO_2$	1-nitroadamantane				[7575-82-8]
	(321–357)	63.6±1.0	(339)	T	[90/10]
$C_{10}H_{15}NO_2$	2-nitroadamantane				[54654-31-7]
	(331–368)	58.0±2.3	(350)	T	[90/10]
$C_{10}H_{15}N_5$	6,9-dimethyl-8-propyladenine				[153495-35-3]
	(345–349)	129.0±0.1	(347)	ME	[94/6]
$C_{10}H_{15}N_5$	8-butyl-9-methyladenine				[117954-98-0]
	(363–368)	135.1±1.2	(366)	ME	[87/7]
$C_{10}H_{16}$	adamantane (tricyclo[3.3.1.1^{2,6}]decane)				[281-23-2]
		59.1	(298)		[00/10]
		58.3	(308)		[00/4]
		52.6	(298)	CGC–DSC	[98/5]
	(278–368)	59.7	(293)		[87/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(328–373)	55.3	(343)		[87/4]
	(343–483)	54.3	(358)		[87/4][68/18]
		58.45	(298)	C	[82/4]
	(278–443)	59.5	(300)		[75/30]
	(310–336)	59.7±0.8	(326)	TSGC	[75/2]
		58.6	(298)		[75/2][93/16]
	(310–336)	59.3±0.2	(326)	BG	[71/1]
		60.5±1.3	(298)		[71/1][93/16]
	(312–366)	53.6	(332)	I	[71/7]
		54.8	(298)		[71/7][93/16]
		59.3±0.16	(298)	C	[70/2]
		59.5	(298)		[70/16]
	(313–353)	58.6±0.6	(333)	DBM	[67/1]
		59.6	(298)		[67/1][93/16]
		62.3	(298)		[67/1]
$C_{10}H_{16}$	2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane (camphene)				[79-92-5]
		46.8		C	[77/12]
$C_{10}H_{16}$	tricyclo[4.3.1.0^{3,8}]decane				[53130-19-1]
	(310–335)	64.9±1.8	(323)	TSGC	[75/2]
		65.6	(298)		[75/2][93/16]
$C_{10}H_{16}$	tricyclo[5.2.1.0^{2,6}]decane				[6004-38-2]
	(359–443)	52.9±1.3	(298)	BG	[71/1][77/1]
$C_{10}H_{16}$	tricyclo[5.2.1.0^{4,10}]decane hexahydrotriquinacene				[17760-91-7]
		56.6±1.3	(307)	TSGC	[79/13]
$C_{10}H_{16}NOS$	S-2,3,3-trichloroallyl N,N-diisopropylthiocarbonate (triallate)				[2303-17-5]
	(293–318)	84			[83/5][78/18]
$C_{10}H_{16}N_2$	methyl(1,1,1-trimethylpropyl)propanedinitrile				[85688-96-6]
		62.0±0.7	(298)		[90/28]
$C_{10}H_{16}N_2$	(1,1-dimethylpropyl)ethylpropanedinitrile				[85688-95-5]
		76.2±0.8	(298)		[90/28]
$C_{10}H_{16}N_2O_2$	1,3-dimethyl-5-butyluracil				[82413-40-9]
	(306–311)	106.3±1.3	(309)	ME	[96/5]
$C_{10}H_{16}O$	(*dl*)-camphor				[21368-68-3]
		51.8±0.8			[77/6]
	(273–293)	51.5±2.6	(283)	HSA	[75/3]
	(273–298)	U 65.8			[60/1][40/1]
		50.7			[60/1][37/2]
	(273–453)	53.6	(363)		[60/1][10/1]
	(285–318)	54.7	(301)		[57/9]
$C_{10}H_{16}O$	(*d*)-3-bornanone				[13854-85-8]
	(273–408)	54.2	(288)		[87/4]
	(323–339)	55	(331)		[87/4]
	(408–451)	49.8	(423)		[87/4]
$C_{10}H_{16}O$	*cis*-8-methyl-2-hydrindanone				[13351-29-6]
		60.9±0.2	(298)	C	[70/6][77/1]
$C_{10}H_{16}O$	adamantan-1-ol				[768-95-6]
	(320–370)	86.6±2.5	(298)	BG	[78/8]
$C_{10}H_{16}O$	adamantan-2-ol				[700-57-2]
	(320–370)	87.9±2.1	(345)	BG	[78/8]
		88.7±2.5	(298)	BG	[78/8]
$C_{10}H_{16}S$	1,7,7-trimethylbicyclo[2.2.1]heptan-2-thione				[53402-10-1]
	(262–282)	62.2±0.9	(272)	ME	[99/26]
		61.7±0.9	(298)		[99/26]
$C_{10}H_{16}S_4$	1,3,5,7-tetramethyl-2,4,6,8-tetrathiaadamantane				[7000-79-5]
		117.1±4.1	(298)	TE	[78/3]
$C_{10}H_{17}NOS$	carbamothioic acid, N-butyl-N-(2-propynyl), S-ethyl ester				[59300-35-5]
	(298–313)	82.1	(305.5)	ME	[87/4][76/11]
$C_{10}H_{17}NOS$	carbamothioic acid, N,N-dipropyl S-(2-propynyl) ester				[59300-36-6]
	(298–313)	92.4	(305.5)	ME	[87/4][76/11]
$C_{10}H_{17}NOS$	carbamothioic acid, N-2-methylpropyl-N-(2-propynyl), S-ethyl ester				[59300-34-4]
	(298–313)	74	(305.5)	ME	[87/4][76/11]
$C_{10}H_{18}$	bicyclo[3.3.2]decane				[283-50-1]
		58.2±2	(298)		[77/9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
$C_{10}H_{18}$	*cis*-decahydronaphthalene				[493-01-6]
		64.8	(230)	B	[63/6]
		62.5	(298)		[63/6][93/16]
$C_{10}H_{18}$	*trans*-decahydronaphthalene				[493-02-7]
		66.2	(241)	B	[63/6]
		64.3	(298)		[63/6][93/16]
$C_{10}H_{18}O$	α-terpineol				[10482-56-1]
	(283–328)	80.3	(305)	ME	[54/4][60/1]
$C_{10}H_{18}O$	(*dl*)-α-terpineol				[98-55-5]
	(287–308)	80.1	(297)		[87/4]
$C_{10}H_{18}O$	(*dl*)-borneol				[6627-72-1]
	(350–475)	69.3	(365)		[87/4]
$C_{10}H_{18}O$	(*dl*)-isoborneol				[124-76-5]
	(373–457)	41.1	(388)		[87/4][36/4]
$C_{10}H_{18}O_4$	sebacic acid				[111-20-6]
		165.3±2.9			[99/10][60/4]
	(375–403)	160.7±2.5	(389)	ME	[60/4][70/1]
					[87/4]
$C_{10}H_{19}N_5O$	2-methoxy-4,6-*bis*(isopropylamino)-1,3,5-triazine				[1610-18-0]
	(323–365)	92.2	(338)	GS–GC	[87/4][64/14]
$C_{10}H_{19}N_5S$	2-methylthio-4,6-*bis*(isopropylamino)-1,3,5-triazine				[7287-19-6]
	(323–393)	100	(338)	GS–GC	[87/4][64/14]
$C_{10}H_{20}N_2OS$	N,N-diethyl-N′-isovaleroylthiourea				
	(363)	121.5±3.2	(298)	C	[01/9]
$C_{10}H_{20}N_2OS$	N,N-diethyl-N′-pivaloylthiourea				
	(366)	114.9±2.7	(298)	C	[01/9]
$C_{10}H_{20}O$	citronellol				[106-22-9]
	(283–333)	66.1	(308)		[54/4][60/1]
$C_{10}H_{20}O$	cyclodecanol				[1502-05-2]
	(287–292)	100.5±0.5	(288)	TM	[55/5]
$C_{10}H_{20}O$	(*dl*)-menthol				[89-78-1]
	(279–299)	78.6±4	(289)	HSA	[81/8]
$C_{10}H_{20}O$	(*l*)-menthol				[2216-51-5]
	(279–299)	95.8±4.8	(289)	HSA	[81/8]
$C_{10}H_{20}O_2$	decanoic acid				[334-48-5]
	(293–303)	118.8±2.2	(298)	ME	[68/2][70/1]
					[87/4]
	(290–301)	117.1±1.7	(295)	ME	[61/1]
$C_{10}H_{20}O_3$	peroxydecanoic acid				[14156-10-6]
	(293–303)	117.1±0.8	(298)	ME	[80/23]
$C_{10}H_{21}NO$	decanamide				[2319-29-1]
	(353–370)	125.9±1.3	(361.5)	ME	[59/3]
$C_{10}H_{22}$	decane				[124-18-5]
		80.3	(298)	B	[80/23]
		84.8	(243)	B	[63/6]
		82.4	(298)		[63/6][93/16]
$C_{10}H_{22}O$	decanol				[112-30-1]
	(264–273)	115.5±6.3	(268)	ME	[65/5][87/4]
		112.5±6.3	(298)		[65/5]
$C_{10}H_{22}O_2$	1,10-decanediol				[112-47-0]
		155.8±0.9	(298)	C	[90/14]
$C_{10}H_{24}N_4$	1,4,8,11-tetraazacyclotetradecane				[295-37-4]
	(352–372)	133.9±2.5	(362)	TE	[83/4]
$C_{11}H_6N_4$	bicyclo[2.2.1]hept-5-ene-2,2,3,3-tetracarbonitrile				[6343-21-1]
		117.2±5.4	(408)	MG	[72/13][77/1]
$C_{11}H_7N_2$	2,2-dicyano-3-phenylpropionitrile				[6023-46-7]
	(318–388)	96.2±0.4	(353)	T	[94/44]
$C_{11}H_8N_4$	3-methyl-1,1,2,2-tetracyanocyclohex-4-ene				[13358-02-6]
		82±2.1	(350)	MG	[71/14][77/1]
$C_{11}H_8O_2$	1-naphthoic acid				[86-55-5]
		117.6±0.4		DSC	[83/8]
	(340–360)	110.4±0.2	(355)	ME	[74/2][77/1]
					[87/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		113.6	(298)	C	[74/28]
$C_{11}H_8O_2$	2-naphthoic acid				[93-09-4]
		119.5±0.6		DSC	[83/8]
	(347–363)	113.6±0.8	(365)	ME	[74/2][77/1]
					[87/4]
		117.2	(298)	C	[74/28]
$C_{11}H_9N$	4-phenylpyridine				[939-23-1]
		81.4±1.6	(298)	BE	[00/7]
$C_{11}H_9NO_2$	1-(4-methylphenyl)-1*H*-pyrrole-2,5-dione				[1631-28-3]
	(350–370)	104.6±0.8		C	[98/25]
$C_{11}H_9NO_3$	1-(4-methoxyphenyl)-1*H*-pyrrole-2,5-dione				[1081-17-0]
	(350–370)	121.1±0.8		C	[98/25]
$C_{11}H_{10}$	2-methylnaphthalene				[91-57-6]
		65.7±0.85		C	[74/10]
		61.7±1.7			[68/1][77/1]
$C_{11}H_{10}N_2O_3$	2-methyl-3-acetylquinoxaline-1,4-dioxide				[13297-17-1]
		117.0±2.4	(298)	ME	[97/25]
$C_{11}H_{10}N_2O_3$	2-methyl-3-carboxymethoxyquinoxaline-1,4-dioxide				[40016-70-4]
		118.3±2.6	(298)	C	[97/25]
$C_{11}H_{10}O_2$	pentacyclo[5.4.0^{2,6}0^{3,10}0^{5,9}]undecane-8,11-dione				[2985-72-7]
		92.6±1.0	(298)	ME	[99/4]
$C_{11}H_{11}N$	2,6-dimethylquinoline				[877-43-0]
		84.5±1.5	(298)	C	[95/27]
$C_{11}H_{11}N$	2,7-dimethylquinoline				[93-37-8]
		87.5±1.5	(298)	C	[95/27]
$C_{11}H_{11}N_3O$	3,5-dimethyl-1-phenyl-4-nitrosopyrazole				[5809-38-1]
		100.4±2.2	(298)	C	[01/4]
$C_{11}H_{12}N_2O_3$	4-[(4-nitrophenyl)amino]pent-3-ene-2-one				[20771-72-6]
		121.9±3.9	(298)	C	[93/24]
$C_{11}H_{12}O_2$	1-phenyl-4,7-dioxaspiro[2.4]heptane				[39522-76-4]
		91.8±0.8	(298)		[98/26]
$C_{11}H_{12}O_4$	*trans*-2,3-dimethoxycinnamic acid				[7345-82-6]
	(380–392)	136.6±0.9	(386)	ME	[99/27]
	(380–392)	141.0±0.9	(298)	ME	[99/27]
$C_{11}H_{12}O_4$	*trans*-2,4-dimethoxycinnamic acid				[16909-09-4]
	(391–404)	144.2±1.3	(398)	ME	[99/27]
	(391–404)	149.2±1.3	(298)	ME	[99/27]
$C_{11}H_{12}O_4$	*trans*-2,5-dimethoxycinnamic acid				[10538-51-9]
	(376–391)	134.5±1.1	(384)	ME	[99/27]
	(376–391)	138.8±1.1	(298)	ME	[99/27]
$C_{11}H_{12}O_4$	*trans*-3,4-dimethoxycinnamic acid				[2316-26-9]
	(390–404)	144.9±0.8	(397)	ME	[99/27]
	(390–404)	149.9±0.8	(298)	ME	[99/27]
$C_{11}H_{12}O_4$	*trans*-3,5-dimethoxycinnamic acid				[16909-11-8]
	(385–397)	136.7±0.5	(391)	ME	[99/27]
	(385–397)	141.4±0.5	(298)	ME	[99/27]
$C_{11}H_{12}N_2O_2$	L-tryptophane				[73-22-3]
	(340–440)	87.9±8 U	(390)	LE	[77/2]
$C_{11}H_{13}NO$	(E)-3-(methylamino)-1-phenyl-but-2-en-1-one				[14091-93-1]
		99.2±4.2	(298)	C	[93/24]
$C_{11}H_{13}NO$	4-phenylaminopent-3-ene-2-one				[7294-89-5]
		89.9±3.8	(298)	C	[93/24]
$C_{11}H_{14}$	pentacyclo[5.4.0^{2,6}0^{3,10}0^{5,9}]undecane				[4421-32-3]
		54.7±0.9	(337)	C	[95/10]
	(273–323)	54.9±1.1	(298)	ME	[95/10]
$C_{11}H_{14}N_2O_2$	4-nitrobenzylidene *tert*-butylamine				[718-36-5]
		91.1±3.1	(298)	C	[89/15]
$C_{11}H_{14}N_2O_2$	2-cyano-2-nitroadamantane				[128478-71-7]
	(307–368)	70.0±1.9	(338)	T	[90/10]
$C_{11}H_{14}N_2O_3$	4-nitrobenzylidene *tert*-butylamine N-oxide				[3585-88-4]
		116.5±3.1	(298)	C	[89/15]
$C_{11}H_{14}O$	5-phenylvaleric acid				[2270-20-4]
	(315–327)	118.5±0.8	(321)	ME	[01/10]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
		119.4±1.1	(298)	ME	[01/10]
$C_{11}H_{14}O_2$	2-*tert*-butylbenzoic acid				[1077-58-3]
	(306–322)	99.8±0.4	(315)	ME	[79/4]
$C_{11}H_{14}O_2$	3-*tert*-butylbenzoic acid				[7498-54-6]
	(318–335)	103±0.5	(327)	ME	[79/4]
$C_{11}H_{14}O_2$	4-*tert*-butylbenzoic acid				[98-73-7]
	(325–343)	103.8±0.4	(334)	ME	[79/4]
$C_{11}H_{14}O_2$	2,3,4,5-tetramethylbenzoic acid				[2529-39-7]
	(337–360)	113.4±0.6	(348)	ME	[88/10]
		115.9±0.6	(298)		[88/10]
$C_{11}H_{14}O_2$	2,3,4,6-tetramethylbenzoic acid				[2408-38-0]
	(330–351)	106.9±0.5	(341)	ME	[88/10]
		109.7±0.5	(298)		[88/10]
$C_{11}H_{14}O_2$	2,3,5,6-tetramethylbenzoic acid				[2604-45-7]
	(330–351)	104.6±0.8	(341)	ME	[88/10]
		106.1±0.8	(298)		[88/10]
$C_{11}H_{14}O_2$	3,5-diethylbenzoic acid				[3854-90-8]
	(325–343)	104.1±4.2	(334)		[74/15][77/1]
					[87/4]
$C_{11}H_{14}O_2S$	*p*-tolyl but-1-enyl sulfone				[111895-49-9]
		106.3±2.5		B	[69/11][70/1]
$C_{11}H_{14}O_2S$	*p*-tolyl but-2-enyl sulfone				[24931-66-6]
		107.5±2.5		B	[69/13][70/1]
$C_{11}H_{14}O_2S$	*p*-tolyl but-3-enyl sulfone				[17482-19-8]
		113.4±2.9		B	[69/13][70/1]
$C_{11}H_{14}O_2S$	*p*-tolyl-isobutenyl sulfone				[16192-03-3]
		102.1±2.5		B	[69/11][77/1]
$C_{11}H_{14}O_2S$	*p*-tolyl 2-methylprop-2-enyl sulfone				[16192-04-4]
		106.7±2.9			[69/13][70/1]
$C_{11}H_{15}N$	1-adamantyl-1-carbonitrile				[23074-42-2]
	(294–312)	67.1±0.8	(303)	ME	[92/26]
		67.2±0.8	(298)		[92/26]
$C_{11}H_{15}NO$	benzylidene *tert*-butylamine N-oxide				[3376-24-7]
		86.8±0.9	(298)	C	[89/15]
$C_{11}H_{15}NS$	N,N-diethylthiobenzamide				[18775-06-9]
		91.4±3.2	(298)	C	[89/11]
$C_{11}H_{16}$	pentamethylbenzene				[700-12-9]
		71.6±0.1	(298)	C	[94/13]
	(296–313)	77.4±0.4	(298)	ME	[89/18]
$C_{11}H_{16}N_2O_2$	1,3-dimethyl-5,6-pentamethyleneuracil				[82413-41-0]
	(335–358)	111.9±0.2	(346)	ME	[83/14]
	(323–338)	108.8±5	(330)	QR	[80/19][83/14]
	(340–370)	113.4±1.3	(355)	MS	[80/19][83/14]
$C_{11}H_{16}O$	2-*tert*-butyl-4-methylphenol				[2409-55-4]
	(288–318)	82.6±0.5	(303)	GS	[99/13]
		82.9±0.5	(298)		[99/13]
	(274–294)	77.4	(284)		[87/4][60/14]
$C_{11}H_{16}O$	2-*tert*-butyl-5-methylphenol				[88-60-8]
	(277–294)	80.4±1.3	(287)	GS	[99/13]
		79.7±1.3	(298)		[99/13]
$C_{11}H_{16}O$	4-*tert*-amylphenol				[80-46-6]
	(293–333)	87.4±0.5	(313)	GS	[99/13]
		88.3±0.5	(298)		[99/13]
$C_{11}H_{16}O$	1-(2,4,6-trimethylphenyl)ethanol				[31108-34-6]
	(282–313)	U 5.7	(297)		[87/4]
$C_{11}H_{17}NO$	1-adamantyl carboxamide				[5511-18-2]
	(336–354)	105.9±0.5	(345)	ME	[89/6]
		108.0±0.5	(298)		[89/6]
$C_{11}H_{17}N_5$	6,9-dimethyl-8-butyladenine				[153495-36-4]
	(348–354)	106.0±0.1	(351)	ME	[94/6]
$C_{11}H_{18}$	1-methyladamantane				[768-91-2]
	(300–342)	67.8±1.3	(298)	BG	[77/11]
	(306–336)	67.6±0.5	(321)		[75/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{11}H_{18}$	2-methyladamantane				[700-56-1]
	(310–330)	67.5±2.1	(320)		[75/2]
	(300–340)	68.2±1.3	(298)		[77/11]
$C_{11}H_{20}$	bicyclo[3.3.3]undecane				[180-43-8]
		63.6±0.8	(298)	C	[75/7][77/1]
$C_{11}H_{20}O_4$	undecanedioic acid				[1852-04-6]
	(371–381)	158.6±1.9	(376)	ME	[99/10]
		162.5±1.9	(298)		[99/10]
$C_{11}H_{22}O_2$	undecanoic acid				[112-37-8]
	(303–308)	121.3±1.3	(298)	ME	[68/2][70/1]
$C_{11}H_{22}O_3$	peroxyundecanoic acid				[676-08-4]
	(293–303)	125.9±3.4	(298)	ME	[80/23]
$C_{11}H_{23}NO$	N-methyl decanamide				
	(303–325)	102.8±0.8	(314)	GS	[59/4][87/4]
$C_{11}H_{24}$	undecane				[1120-21-4]
		91.5	(236)	B	[63/6]
$C_{12}Cl_8O$	octachlorodibenzofuran				[39001-02-2]
	(373–474)	149.4	(423)	T	[89/20][86/7]
$C_{12}Cl_8O_2$	octachlorodibenzo[b,e][1,4]dioxin				[3268-87-9]
	(393–573)	149.8	(483)	T	[89/20][86/7]
$C_{12}F_{10}$	decafluorobiphenyl				[434-90-2]
	(298–323)	85.3±2.3	(310)	ME	[74/9][87/4]
$C_{12}F_{18}$	*hexakis*(trifluoromethyl)tetracyclo[2.2.0.0^{2,6}.0^{2,5}]hexane				[22736-20-5]
	(293–306)	49.2	(299.5)	I	[87/4][70/24]
$C_{12}Cl_{10}$	decachlorobiphenyl				[2051-24-3]
	(324–363)	121.8	(343)	GS	[84/26]
$C_{12}H_2Cl_8$	2,2′,3,3′,5,5′,6,6′-octachlorobiphenyl				[2136-99-4]
	(302–334)	101.7	(318)	GS	[84/26]
$C_{12}H_4Cl_4O$	1,2,3,4-tetrachlorodibenzofuran				[24478-72-6]
	(333–393)	118.5	(363)	T	[89/20][86/7]
$C_{12}H_4Cl_4O$	2,3,7,8-tetrachlorodibenzofuran				[51207-31-9]
	(303–344)	124.0	(323)	T	[89/20][86/7]
$C_{12}H_4Cl_4O_2$	2,3,7,8-tetrachlorodibenzo[b,e][1,4]dioxin				[1746-01-6]
		124.0	(578)		[85/19]
$C_{12}H_4Cl_6$	2,2′,4,4′,6,6′-hexachlorobiphenyl				[33976-03-2]
	(263–303)	103.4±2.3	(283)	GS	[94/1]
$C_{12}H_4N_4$	7,7,8,8-tetracyanoquinodimethane				[1518-16-7]
		79.0		TGA	[95/35]
	(452–553)	108±2	(500)	T	[84/23]
	(382–464)	122±2	(423)	ME	[84/23]
		126.1±1	(413)	ME,TE	[80/22]
	(433–499)	104.8±9.2	(465)	MG	[63/4][70/1]
					[80/23][87/4]
$C_{12}H_5Cl_3O_2$	1,3,7-trichlorodibenzo[b,e][1,4]dioxin				[67028-17-5]
	(310–373)	116.2	(342)	T	[89/20][86/7]
$C_{12}H_5Cl_3O_2$	1,2,4-trichlorodibenzo[b,e][1,4]dioxin				[39227-58-2]
	(310–374)	118.8	(342)	T	[89/20][86/7]
$C_{12}H_5Cl_5$	2,2′,4,5,5′-pentachlorobiphenyl				[37680-73-2]
	(303–313)	92.7	(308)	GS	[81/19]
$C_{12}H_6Cl_2O$	3,6-dichlorodibenzofuran				[74919-40-4]
	(305–374)	110.9	(340)	T	[89/20][86/7]
$C_{12}H_6Cl_2O_2$	2,3-dichlorodibenzo[b,e][1,4]dioxin				[29446-15-9]
		108.6±1.0	(298)	C	[99/38]
		107.2±0.8	(358)	C	[98/10]
		108.6±1.0	(298)		[98/10]
	(306–374)	106.2	(340)	T	[89/20][86/7]
$C_{12}H_6Cl_2O_2$	2,7-dichlorodibenze[b,e][1,4]dioxin				[33857-26-0]
	(314–374)	105.5	(344)	T	[89/20][86/7]
$C_{12}H_6Cl_2O_2$	2,8-dichlorodibenzo[b,e][1,4]dioxin				[38964-22-6]
	(305–363)	109.0	(334)	T	[89/20][86/7]
$C_{12}H_6Cl_4$	2,2′,5,5′-tetrachlorobiphenyl				[35693-99-3]
	(303–312)	94.6	(308)	GS	[81/19]
$C_{12}H_6Cl_4$	2,3,4,5-tetrachlorobiphenyl				[33284-53-6]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(253–393)	88.7±1.2	(273)	GS	[94/1]
$C_{12}H_7ClO_2$	1-chlorodibenzo[b,e][1,4]dioxin				[39227-53-7]
		95.2±1.1	(298)	C	[99/38]
		95.2			[98/27]
	(303–338)	98.6	(321)	T	[89/20][86/7]
$C_{12}H_7ClO_2$	2-chlorodibenzo[b,e][1,4]dioxin				[39227-54-8]
		97.2	(298)	C	[99/38]
		97.2±0.6	(298)	C	[96/13]
	(305–348)	97.2	(327)	T	[89/20][86/7]
$C_{12}H_8$	acenaphthylene				[208-96-8]
		70.0	(298)	CGC–DSC	[98/5]
	(313–453)	77.2	(383)	GS	[95/7]
	(238–323)	73.2±0.5	(303)	GS	[83/11]
		73.0±0.4	(298)	C	[72/1]
	(286–318)	71.1±1.3			[70/1][87/4]
					[65/3]
$C_{12}H_8$	biphenylene				[259-79-0]
	(313–453)	82.7	(383)	GS	[95/7]
	(309–336)	U 104.5	(319)		[89/9]
		87.3±0.3	(298)	B	[80/27]
		83.8±.3		C	[72/1]
	(371–381)	U 128.9±2	(376)		[55/1][70/1]
					[87/4]
$C_{12}H_8Cl_2$	2,2′-dichlorobiphenyl				[13029-08-8]
	(310–328)	96.1	(314)	ME	[64/8]
	(310–328)	96.2±4.2	(298)	ME	[64/8][70/1]
					[87/4]
$C_{12}H_8Cl_2$	4,4′-dichlorobiphenyl				[2050-68-2]
	(263–303)	95.3±1.3	(283)	GS	[94/1]
	(303–360)	103.7	(331)	ME	[64/8][87/4]
	(303–360)	103.8±4.2	(298)	ME	[64/8][70/1]
$C_{12}H_8Cl_6$	1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-*endo-exo*-1,4:5,8-dimethylnaphthalene (aldrin)				[309-00-2]
	(309–343)	91.8	(326)	GS	[82/23]
$C_{12}H_8Cl_6O$	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-*endo-exo*-5,8-dimethanonaphthalene (dieldrin)				[60-57-1]
	(308–348)	93.8	(328)	GS	[82/23]
	(293–313)	98.7	(303)	GS	[69/4]
$C_{12}H_8F_2$	2,2′-difluorobiphenyl				[388-82-9]
	(301–319)	95.1	(310)		[87/4][64/8]
	(301–318)	95±4.2	(298)	ME	[64/8][70/1]
$C_{12}H_8F_2$	4,4′-difluorobiphenyl				[2050-68-2]
	(294–318)	91.4	(306)	ME	[64/8]
	(294–318)	91.2±4.2	(298)	ME	[64/8][70/1]
$C_{12}H_8N_2$	1,10-phenanthroline				[66-71-7]
		98.3		ME	[72/10]
$C_{12}H_8N_2$	phenazine				[92-82-0]
		92.7±0.4	(354)		[91/4]
		97.0±0.4	(298)		[91/4]
		91.8±2.1	(298)	C	[90/9]
	(280–318)	92.4	(295)		[87/4]
		99.9±2.5		ME,GS	[80/6]
	(303–328)	90.4±2.5	(298)	TE	[75/5]
	(303–323)	90.0±1.5	(298)	TCM	[U/1][75/5]
	(281–293)	90.4±1.7		LE	[75/1]
		U 81.5			[46/1]
$C_{12}H_8N_2$	benzo[c]cinnoline				[230-17-1]
	(320–360)	101.7±.2	(340)	ME	[77/14][87/4]
		113		ME	[72/10]
$C_{12}H_8N_2O$	phenazine-N-oxide				[304-81-4]
		100.±1.3	(298)	C	[90/9]
$C_{12}H_8N_2O_4$	4,4′-dinitrobiphenyl				[1528-74-1]
	(441–428)	104.6±1.8	(420)	ME	[53/10][60/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{12}H_8N_4$	bicyclo[2.2.2]oct-5-ene-2,2,3,3-tetracarbonitrile				[1017-93-2]
		111.7±5.4	(433)		[72/13][77/1]
$C_{12}H_8N_4$	dibenzo-1,3a,4,6a-tetraazapentalene				
	(363–433)	70.3±1.7	(400)		[67/6]
$C_{12}H_8N_4$	dibenzo-1,3a,6,6a-tetraazapentalene				
	(363–443)	42.3±3.4	(403)		[67/6]
$C_{12}H_8O$	dibenzofuran				[132-64-9]
		84.4±0.7	(298)		[90/6]
		76.5±0.2	(298)		[87/10]
	(304–343)	85.6	(324)	T	[89/20][86/7]
	(303–343)	79.1	(323)	GS	[86/8]
		88.7±2.1			[58/2]
$C_{12}H_8O_2$	dibenzo[b,e][1,4]dioxin				[262-12-4]
		89.6±0.7	(298)	C	[99/38]
		89.6±0.7	(318)	C	[97/37]
	(303–333)	92.3	(318)	T	[89/20][86/7]
$C_{12}H_8S$	dibenzothiophene				[132-65-0]
		85.1±0.4	(298)	C	[87/10][79/2]
	(303–348)	91.2	(325)	GS	[86/8]
	(336–366)	90.7			[81/14]
$C_{12}H_8S_2$	thianthrene				[92-85-3]
		103.6±0.4	(350)	IPM	[93/1]
	(338–368)	98.6±0.5	(353)		[89/4]
		99.4±0.6	(298)		[89/4]
	(358–426)	98.0	(393)	GS	[81/14]
	(338–368)	97.5±6.3	(353)	HSA	[79/7]
$C_{12}H_9Cl$	4-chlorobiphenyl				[2051-62-9]
	(253–303)	86.0±0.9	(278)	GS	[94/1]
	(306–346)	73.7±0.7	(326)	TE,ME	[83/25]
$C_{12}H_9N$	carbazole				[86-74-8]
	(346–364)	101.2±1.1	(355)	ME	[90/8]
		103.3±1.1	(298)	ME	[90/8]
		97.7±0.3	(298)	C	[87/10]
		84.5±.8			[55/2][70/1]
$C_{12}H_9NS$	phenothiazine				[92-84-2]
	(336–395)	86	(351)		[87/4][42/1]
$C_{12}H_9N_3O_2$	4-nitroazobenzene				[2491-52-3]
		110.0		GS	[87/19][91/18]
$C_{12}H_9N_3O_3$	4-hydroxy-4′-nitroazobenzene				[1435-60-5]
		140.1		GS	[87/19][91/18]
	(417–444)	143.8±1.3	(430.5)	TE	[87/4][70/4]
		144±2.5		TE,ME	[70/4]
		136.8			[68/10][88/24]
$C_{12}H_9N_3O_4$	N-(2,4-dinitrophenyl)-N-phenylamine				[961-68-2]
	(402–420)	147.6±1.7	(411)	TE	[87/4][70/4]
		149±3.0		TE,ME	[70/4]
		131.8			[68/10][88/24]
$C_{12}H_9N_3O_5$	N-(2,4-dinitrophenyl)-N-(4-hydroxyphenyl)amine				[119-15-3]
	(440–470)	155.6±4.2	(455)	TE,ME	[70/4][87/4]
		154.0			[68/10][88/24]
$C_{12}H_9N_4O_4$	N-(4-aminophenyl)-N-(2,4-dinitrophenyl)amine				[961-68-2]
	(437–460)	156.5±2.1	(448.5)	TE	[87/4][70/4]
		154±2.9		TE,ME	[70/4]
		139.3			[68/10][88/24]
$C_{12}H_{10}$	acenaphthene				[83-32-9]
		84.6	(298)	CGC–DSC	[98/5]
	(313–453)	83.2	(383)	GS	[95/7]
	(283–323)	86.8±0.9	(303)	GS	[83/11]
		83.4±1.0	(298)		[75/8][77/7]
		82.4	(366)	B,IPM	[75/8]
	(327–356)	84.7±2.7	(341)	ME	[74/9]
	(290–340)	86.2±0.8		ME	[65/3][70/1]
	(291–310)	82.1±0.4	(300)	V	[59/2][87/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(258–308)	81.6			[58/1]
$C_{12}H_{10}$	biphenyl				[92-52-4]
		82.9	(298)	CGC–DSC	[98/5]
	(313–453)	81.8	(383)	GS	[95/7]
	(283–338)	83.4	(311)	EM	[89/1]
	(303–333)	U 113.3	(318)		[89/9]
		81.5±0.2	(298)		[89/5]
		77.9±0.3	(298)	C	[79/3]
		81.8±0.2	(298)	C	[78/34]
	(306–332)	80.4±1.6	(319)	TSGC	[75/2]
	(273–313)	76.0±4.0		HSA	[75/3]
	(298–323)	83.6±2.5	(310)	ME	[74/9]
	(298–318)	75.2		ME	[74/6]
		81.8±0.4	(298)	C	[72/1]
	(279–299)	75.8±0.6	(289)		[55/3]
		81.6±2			[53/1][70/1]
					[60/1]
	(287–307)	75.1±1.7	(297)		[53/10]
	(288–314)	81.6±1.7	(301)		[53/13]
	(278–307)	72.8±3	(302)	ME	[51/1]
		68.6±0.8	(292)	QF	[38/1]
$C_{12}H_{10}N_2$	*cis*-azobenzene				[1080-16-6]
	(273–323)	92.9	(288)		[87/4]
	(298–357)	92.9±1.2	(328)	ME	[77/14]
	(303–333)	U 74.9	(318)	ME	[50/3][60/1]
$C_{12}H_{10}N_2$	*trans*-azobenzene				[17082-12-1]
		94.1±0.8	(298)	B	[96/11]
	(298–302)	93.6±1.9	(298)	ME	[92/4]
	(298–341)	92.1±0.9	(319)	TE,ME	[84/18]
	(299–317)	96.9±0.8	(308)	TE	[77/4]
	(299–317)	94.9±0.8	(308)	ME	[77/4]
	(298–347)	93.8±1.2	(323)	ME	[77/14]
	(303–333)	U74.9	(318)		[50/3][60/1]
					[87/4]
$C_{12}H_{10}N_2O$	*trans*-diphenyldiazene-N-oxide				[21650-65-7]
		98.6±0.9	(298)	C	[86/10]
$C_{12}H_{10}N_2O_2$	N-(2-nitrophenyl)-N-phenylamine				[119-75-5]
	(335–346)	100.9±2.1	(340.5)	TE	[87/4][70/4]
		101.9±1.7		TE,ME	[70/4]
		108.4			[68/10][88/24]
$C_{12}H_{10}N_2O_2$	N-(4-nitrophenyl)-N-phenylamine				[836-30-6]
	(382–403)	130.6±1.3	(392.5)	TE	[87/4][70/4]
		126.2±1.6		TE,ME	[70/4]
		120.9			[68/10][88/24]
$C_{12}H_{10}N_4$	4,5-dimethy1-1,1,2,2-tetracyanocyclohex-4-ene				[69155-29-9]
		107.9±4.2	(378)		[72/13][77/1]
$C_{12}H_{10}N_4O_2$	4-amino-4′-nitroazobenzene				[730-40-5]
	(403–465)	123	(434)	GS	[89/29]
		140.1		GS	[87/19][91/18]
		127.6		UV	[84/39][84/40]
		136.4		ME	[80/25][91/18]
		140.2±1.2		TE,ME	[70/4]
		134.3		ME	[68/10][88/24]
	(404–424)	137.7±0.8	(414)	TE	[67/7][87/4]
					[70/4]
	(404–423)	136.4±5.0	(413)	ME	[67/7][66/18]
$C_{12}H_{10}O$	2-acetylnaphthalene				[93-08-3]
	(295–316)	87.9±0.4	(305)	V	[59/2][87/4]
$C_{12}H_{10}O$	diphenyl ether				[101-84-8]
		82±2.1		E	[58/2][70/1]
$C_{12}H_{10}O$	2-phenylphenol				[90-43-7]
	(301–328)	87.6±0.9	(314)	T	[98/9]
		88.5±0.9	(298)		[98/9]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(292–314)	82.9	(303)		[87/4][60/14]
$C_{12}H_{10}O$	4-phenylphenol				[92-69-3]
	(333–368)	106.6±1.0	(351)	T	[98/9]
		109.8±1.0	(298)		[98/9]
	(327–348)	97.0	(337.5)		[87/4][60/14]
$C_{12}H_{10}O_2$	2,2′-dihydroxybiphenyl				[1806-29-7]
	(334–363)	111.4±1.2	(349)	T	[98/9]
		114.4±1.2	(298)		[98/9]
$C_{12}H_{10}O_2$	4,4′-dihydroxybiphenyl				[92-88-6]
	(354–388)	138.6±2.0	(371)	T	[98/9]
		143.0±2.0	(298)		[98/9]
$C_{12}H_{10}O_2S$	diphenyl sulfone				[127-63-9]
		106.3±2.9			[U/3][70/1]
$C_{12}H_{10}O_4$	quinhydrone (quinone–hydroquinone)				[106-34-3]
	(317–334)	89.1	(325.5)		[87/4]
	(300–325)	88.6±1	(313)	ME,TE	[81/4]
		U 181.2			[53/10][60/1]
		NA			[51/6]
$C_{12}H_{10}S_2$	diphenyldisulfide				[882-33-7]
		95.±3.0		E	[62/5][70/1]
$C_{12}H_{10}S_2O_4$	diphenyldisulfone				[10409-06-0]
		91.7		E	[64/5]
$C_{12}H_{11}N$	diphenylamine				[122-39-4]
		96.7±2.5		TE,ME	[70/4]
		99.2			[68/10][88/24]
	(298–323)	96.7±2.5	(310)	QF	[53/5][70/1]
$C_{12}H_{11}NO$	N-acetyl-1-naphthylamine				[575-36-0]
	(337–360)	94.1	(348.5)		[87/4][60/21]
$C_{12}H_{11}N_3$	4-aminoazobenzene				[60-09-3]
		106.3		GS	[87/19][91/18]
		109.4			[84/40]
	(356–373)	110.9±1.7	(364)	ME	[56/2][87/4]
$C_{12}H_{12}$	1,8-dimethylnaphthalene				[569-4-5]
	(328–336)	77.9	(332)	IPM	[87/4][75/8]
		79.6	(336)	B,IPM	[75/8][79/5]
		82.7±0.3	(298)	C	[74/14][77/1]
$C_{12}H_{12}$	2,3-dimethylnaphthalene				[581-40-8]
	(333–373)	82.8	(348)	IPM	[87/4][75/8]
	(287–300)	82.2±0.4	(294)	ME	[79/5]
		81.0		B,IPM	[75/8]
	(278–301)	79.9±0.4	(290)	V	[59/2][87/4]
$C_{12}H_{12}$	2,6-dimethylnaphthalene				[581-42-0]
	(350–383)	84.4±1.9	(366)	IPM	[77/7][75/8]
					[87/4]
		82.5	(383)	B,IPM	[75/8]
	(279–304)	84.1	(291)	V	[59/2][87/4]
$C_{12}H_{12}$	2,7-dimethylnaphthalene				[582-16-1]
	(333–369)	83.8±1	(345)	IPM	[77/7][75/8]
		83.2	(369)	B,IPM	[75/8]
	(333–368)	84.6	(348)	IPM	[75/8][87/4]
$C_{12}H_{12}N_2$	4,4′-dimethyl-2,2′-bipyridyl				[1134-35-6]
		99.7±2.3	(298)	C	[97/27]
$C_{12}H_{12}N_2O$	4,4′-diaminodiphenyl oxide				[101-80-4]
		62.8			[75/11]
$C_{12}H_{12}N_2O_2$	1-(4-dimethylaminophenyl)-1*H*-pyrrole-2,5-dione				[6953-81-7]
	(350–370)	122.6±0.9		C	[98/25]
$C_{12}H_{12}O_6$	1,3,5-trimethoxycarbonylbenzene				[2672-58-4]
	(350–368)	115.9±0.4	(359)	ME	[95/6]
		118.9±0.4	(298)		[95/6]
		117.5±0.8	(298)		[67/8][95/6]
$C_{12}H_{14}O_2$	ethyl *trans*-2-phenylcyclopropanecarboxylate				[946-39-4]
		96.9±0.4	(298)	C	[98/24]
$C_{12}H_{14}O_4$	1,1-diacetoxy-1-phenylethane				[28153-24-4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(308–338)	94.4±2.2	(318)	GS	[96/14]
$C_{12}H_{15}N_3O_2$	3,6-*bis*(dimethylamino)phthalimide				[5972-07-6]
	(400–457)	105	(415)		[87/4]
		135.3		RG	[58/4]
$C_{12}H_{15}N_3O_6$	2,4,6-trinitro-1,3-dimethyl-5-*tert*-butylbenzene				[81-15-2]
	(312–348)	100.4	(327)		[87/4][56/3]
$C_{12}H_{16}N_2O_2$	N-benzoyl-N′,N′-diethylurea				
		132.2±2.8	(298)	C	[00/28]
$C_{12}H_{16}N_2O_5$	1-methyl-4-*tert*-butyl-3-methoxy-2,6-dinitrobenzene				[83-66-9]
	(293–353)	102.9			[53/7][60/1]
$C_{12}H_{16}N_3O_3PS_2$	azinphos-ethyl				[2642-71-9]
	(326–420)	86.8	(341)		[87/4]
$C_{12}H_{16}O_2$	pentamethylbenzoic acid				[2243-32-5]
	(347–363)	111.5±1.7	(355)	ME	[88/10]
		113.4±1.8	(298)		[88/10]
$C_{12}H_{16}O_4$	benzo-12-crown-4				[14174-08-4]
		104.3±2.6	(298)	CGC–DSC	[00/11]
$C_{12}H_{17}NO_2$	2,6-diisopropylnitrobenzene				
		81.0±1.0	(286)	GS	[00/25]
		80.6±1.0	(298)	GS	[00/25]
$C_{12}H_{18}$	hexamethylbenzene				[87-85-4]
		80		TGA	[97/29]
		81.4±0.1	(298)	C	[94/13]
	(288–304)	85.0±0.2	(298)	ME	[89/18]
		74.9±0.6		DSC	[84/2]
	(303–338)	85.2	(320)	A	[76/2]
		86.1	(298)		[76/2][93/16]
	(314–364)	83.2	(329)	A	[69/24]
		74.7±2		ME	[65/4][70/1]
		80.8			[57/1][60/1]
		80.8			[49/8]
$(C_{12}H_{18})-(C_6H_3N_2ClO_4)$	(hexamethylbenzene)-(picryl chloride)				
		93.7			[49/8]
$C_{12}H_{18}$	*E*,*E*,*E*-1,5,9-cyclododecatriene				[676-22-2]
	(273–307)	75.2	(288)		[87/4]
		74.7±0.8			[73/16][77/1]
$C_{12}H_{18}O$	1-adamantyl methyl ketone				[1660-04-4]
	(287–305)	84.2±0.6	(298)	ME	[92/2]
$C_{12}H_{18}O$	*exo*-4-hydroxy-*endo*-*endo*-tetracyclo[6.2.1.1.^{3,6}.0^{2,7}]dodecane				[7273-98-5]
	(303–343)	79.0±2.5	(298)	TSGC	[80/16]
$C_{12}H_{18}O$	*exo*-4-hydroxy-*exo*-*endo*-tetracyclo[6.2.1.1.^{3,6}.0^{2,7}]dodecane				[107133-43-7]
	(323–353)	74.3±1.8		TSGC	[80/16]
		76.3±2.0	(298)		[80/16]
$C_{12}H_{18}O$	*exo*-4-hydroxy-*exo*-*exo*-tetracyclo[6.2.1.1.^{3,6}.0^{2,7}]dodecane				[74007-11-7]
	(313–353)	73.9±2		TSGC	[80/16]
		75.9±2.2	(298)		[80/16]
$C_{12}H_{18}O_2$	1-adamantyl-1-carboxylic acid methyl ester				[711-01-3]
	(267–283)	84.3±0.6	(275)	ME	[92/26]
		82.4±0.6	(298)		[92/26]
$C_{12}H_{18}O_2$	*trans-syn-trans* decahydro-3-hydroxy-2-naphthalene acetic γ-lactone				
	(240–310)	NA		ME	[57/10]
$C_{12}H_{18}O_2$	*trans-anti-trans* decahydro-3-hydroxy-2-naphthalene acetic γ-lactone				
	(240–310)	NA		ME	[57/10]
$C_{12}H_{19}F_3N_2O_4$	N[(N-trifluoroacetyl)valyl]alanine ethyl ester				
	(323–424)	115.5	(338)		[87/4][60/20]
$C_{12}H_{20}$	2,2-dimethyladamantane				[19740-34-2]
	(300–360)	73.6±1.3	(298)	BG	[77/11]
$C_{12}H_{20}$	1,3-dimethyladamantane				[702-79-4]
		67.8±1.3 (liq)	(298)	EB	[77/11]
$C_{12}H_{20}N_2$	1-(1-piperidinyl)cyclohexanecarbonitrile				[3867-15-0]
		87.8±0.6	(298)		[97/28]
$C_{12}H_{20}N_2O_2$	N,N′-ethylenebis(4-aminopent-3-ene-2-one)				[6310-76-5]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(358–374)	128.2±0.7	(366)	ME	[95/12]
		131.6	(298)		[95/12]
$C_{12}H_{20}O_2$	bicyclo[2.2.1]heptane-7-one 2,2-dimethylpropylene ketal				[217467-40-8]
		84.0±0.9	(298)		[98/26]
$C_{12}H_{22}O$	cyclododecanone				[850-1-7]
		83.2±0.3	(298)	ME	[96/16]
$C_{12}H_{22}O$	*trans* 2-cyclohexylcyclohexanol				
	(293–325)	98.6±0.5	(320)	ME	[97/5]
$C_{12}H_{22}O_4$	dodecanedioic acid				[693-23-2]
	(375–296)	153.1±2.9	(386)	ME	[60/4][70/1]
$C_{12}H_{22}O_{11}$	D cellobiose				[528-50-7]
	(474–488)	302±44.0	(481)	ME	[99/1]
$C_{12}H_{24}$	cyclododecane				[294-62-2]
		76.2	(298)	CGC–DSC	[98/5]
		76.4±1.7			[57/1]
$C_{12}H_{24}N_2O_2$	dicyclohexyl ammonium nitrite				[3129-91-7]
	(290–298)	99.1	(294)	TE	[87/4][65/19]
		U161.8			[85/20]
	(308–339)	105.9	(324)		[61/6]
$C_{12}H_{24}O_2$	dodecanoic acid (lauric acid)				[143-07-7]
	(293–303)	127.9	(298)		[87/4]
	(293–308)	132.6	(300)	ME	[68/2]
	(296–314)	140.2±3.3	(304)	ME	[61/1]
	(293–313)	117.2±2.9	(303)	ME	[57/3]
$C_{12}H_{24}O_3$	peroxydodecanoic acid				[2388-12-7]
	(293–303)	131.4±1.7	(298)	ME	[80/23]
$C_{12}H_{24}O_6$	18 crown-6				[17455-13-9]
		128.1±2.3	(298)	CGC–DSC	[00/11]
$C_{12}H_{25}NO$	dodecanamide				[1120-16-7]
	(349–368)	152.7±0.8	(358.5)	ME	[59/3][87/4]
$C_{12}H_{26}$	*n*-dodecane				[112-40-3]
		100.2	(298)	B	[72/1]
		101.7	(263)	B	[63/6]
$C_{12}H_{26}O$	1-dodecanol				[112-53-8]
	(285–294)	130.1±1.2	(290)	ME	[65/6][87/4]
		129.3	(298)		[65/6]
$C_{12}H_{26}O$	di-*tert*-butyl-isopropylmethanol				[5457-42-1]
		59.3±0.8	(298)		[98/22]
$C_{13}H_4Cl_6O$	1,2,4,5,7,8-hexachloroxanthene				[38178-99-3]
	(353–449)	147	(401)	T	[86/7]
$C_{13}H_7NO_2$	benz[g]isoquinoline-5,10-dione				[46492-08-4]
	(334–381)	108.1±1.6	(358)	ME	[98/3]
$C_{13}H_8O$	perinaphthenone				[548-39-0]
	(326–348)	97.2±2.5	(337)	ME	[98/3]
$C_{13}H_8O$	fluorenone				[486-25-9]
	(324–349)	91.6±1.6	(336)	GS	[98/21]
		93.9±1.6	(298)	GS	[98/21]
		87.6±0.3	(319)	C	[88/5]
		88.4±0.4	(298)	C	[88/5]
	(298–343)	92.2	(320)	GS	[86/8]
$C_{13}H_8OS$	thioxanthone				[492-22-8]
		114.8±0.4	(298)	C	[92/27]
$C_{13}H_8O_2$	xanthone				[90-47-1]
		98.57±0.4	(298)	C	[88/13]
$C_{13}H_8O_2$	3-hydroxy-1*H*-phenalen-1-one				[5472-84-4]
	(402–432)	151.5±4.7	(417)	ME	[98/3]
$C_{13}H_9ClO_2$	5-chloro-2-hydroxybenzophenone				[85-19-8]
	(293–367)	91.9	(308)	UV	[87/4][60/24]
$C_{13}H_9N$	acridine				[260-94-6]
		86	(430)	TGA	[98/36]
		89.5±0.2	(333)	C	[94/14]
		91.7±0.4	(298)	C	[94/14]
		94.5	(298)		[89/26]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
	(280–328)	92.6	(295)		[87/4]
	(303–328)	90.8±1.3	(298)	TE	[75/5]
	(303–326)	93.3±0.8	(298)	TCM	[U/1][75/5]
	(281–298)	91.6±2.5	(290)	LE	[75/1]
	(306–345)	92.8±1.3	(298)	ME	[U/2][75/5]
		78.7		E	[46/1]
$C_{13}H_9N$	3,4-benzoquinoline (phenanthridine)				[260-27-3]
	(288–323)	100.1±10.1	(306)	ME	[98/3]
		98.6	(298)		[89/26]
	(288–323)	94.6±4	(308)	ME	[75/15][87/4]
		107.5		ME	[65/6]
$C_{13}H_9N$	5,6-benzoquinoline				[85-02-9]
	(288–323)	83.1±3.6	(308)	ME	[75/15][87/4]
		106.3		ME	[72/10]
$C_{13}H_9N$	7,8-benzoquinoline				[230-27-3]
		90.2±2.0	(298)		[89/26]
	(293–323)	80.8±2.5	(308)	ME	[75/15][87/4]
		100.4		ME	[72/10]
$C_{13}H_9NO$	acridone				[598-95-0]
		136.2±0.5	(298)	C	[92/27]
$C_{13}H_9NO_2$	N-methyl-1,8-naphthalimide				[2382-08-3]
	(379–398)	107.4±0.8	(389)	ME	[00/9]
		109.7±0.8	(298)	ME	[00/9]
$C_{13}H_{10}$	fluorene				[86-73-7]
		87.6	(298)	CGC–DSC	[98/5]
	(313–453)	84.9	(383)	GS	[95/7]
	(323–363)	84.9±0.4	(343)	GS	[94/2]
		85.1±0.4	(298)		[94/2]
	(318–333)	87.0±1.0	(318)	PG	[88/26]
		80.2±0.2	(298)	C	[87/10]
	(348–388)	78.9	(363)	IPM	[87/4][75/8]
	(283–323)	88.4±0.6	(303)	GS	[83/11]
	(350–388)	83.1±1.3			[77/7][75/8]
		81.8	(388)	B	[75/8]
	(286–300)	80.3±0.8	(293)	TE	[60/2]
	(306–323)	82.8	(315)		[53/13][87/4]
	(306–322)	82.8			[53/1][60/1]
$C_{13}H_{10}N_2$	9-aminoacridine				[90-45-9]
		115	(520)	TGA	[98/29]
$C_{13}H_{10}N_2O_2$	N-phenyl 4-nitrobenzaldehyde imine				[785-80-8]
		126±1.3	(298)		[97/18]
$C_{13}H_{10}N_4$	1,5-diphenyltetrazole				[7477-73-8]
	(348–363)	121.5±4.2	(355)	ME	[51/3][70/1]
$C_{13}H_{10}N_4$	2,5-diphenyltetrazole				[18038-45-7]
	(333–353)	119.7±4.2	(343)	ME	[51/3][70/1]
$C_{13}H_{10}O$	benzophenone				[119-61-9]
	(299–320)	92.4±2.2	(309)	GS	[98/21]
		93.1±2.2	(298)	GS	[98/21]
		94.7±1	(321)	DM	[83/2]
		92±0.83	(298)	C	[74/20][83/2]
	(295–313)	95.0±0.2	(304)	ME	[80/14]
		96.1			[78/15]
		84.4±1.13	(298)	C	[78/13]
	(297–317)	93.9±0.5	(307)	TE,ME	[77/4]
	(293–318)	95.0±1.5	(305)	TE	[75/5]
	(294–318)	92.9±0.8	(306)	ME	[75/6]
	(278–311)	77.0±2.5	(298)	ME	[74/5]
	(298–318)	89.96	(308)	ME	[87/4][74/6]
	(295–304)	94.6±0.8	(298)	TCM	[73/1]
		93.4±0.3	(298)	C	[72/1]
	(293–319)	96.1	(306)		[56/3]
		91.2			[50/2]
	(290–315)	78.2±1.2	(303)		[38/1][34/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		95±2.5	(298)	TE	[32/1][70/1] [60/1]
	(273–320)	91.2±1.6	(298)	ME	[25/1]
$C_{13}H_{10}O$	dibenzopyran				[229-95-8]
	(305–353)	92.5	(329)	T	[86/7]
		112.1±2.1			[58/2][70/1]
$C_{13}H_{10}O_2$	phenyl benzoate				[93-99-2]
		99.0±0.4	(298)		[71/2]
		89.5±4.2			[71/11][77/1]
		96.2±1.7			[47/2][70/1]
$C_{13}H_{10}O_3$	diphenyl carbonate				[102-09-0]
		90±8.4	(298)	E	[71/2][77/1]
$C_{13}H_{10}O_3$	phenyl salicylate				[118-55-8]
	(279–315)	109.1	(294)	UV	[87/4][60/24]
		92±4.2			[47/2][70/1]
$C_{13}H_{10}O_3$	2,4-dihydroxybenzophenone				[131-56-6]
	(312–353)	134	(327)	UV	[87/4][60/24]
$C_{13}H_{10}O_4$	2,4,4′-trihydroxybenzophenone				[1470-79-7]
		139.0		TGA	[99/22]
$C_{13}H_{10}O_5$	2,2′,4,4′-tetrahydroxybenzophenone				[131-55-5]
		178.5		B	[99/22]
	(363–471)	143.4	(378)	UV	[87/4][60/24]
$C_{13}H_{11}N$	N-phenyl-benzaldehyde imine				[538-51-2]
	(294–326)	97.4±1.2	(309)	T	[97/18]
		98.1±1.2	(298)		[97/18]
		93.7±0.9	(298)	C	[86/10]
		85.5±2.1	(293)		[48/2]
$C_{13}H_{11}N$	9-methylcarbazole				[1484-12-4]
	(313–332)	95.0	(322)	ME	[90/8]
		95.5	(298)		[90/8]
$C_{13}H_{11}NO$	N-phenylmethylene benzenamine N-oxide				[1137-98-8]
		115.0±0.8	(298)	C	[86/10]
$C_{13}H_{11}NO$	2-hydroxybenzaldehyde N-phenylimine				[779-84-0]
	(288–325)	115.9	(303)		[87/4]
	(348–408)	129.9	(378)		[58/1]
$C_{13}H_{11}NO$	4-hydroxybenzaldehyde N-phenylimine				[1689-73-2]
	(348–408)	127.9	(363)		[87/4]
	(288–338)	116	(313)		[58/1]
$C_{13}H_{11}NO$	benzanilide				[93-98-1]
	(352–369)	99.2	(360.5)		[87/4][60/21]
$C_{13}H_{11}NO_2$	N-(2-hydroxyphenylmethylene)benzenamine N-oxide				[20357-59-9]
		116.5±1.4	(298)	C	[86/10]
$C_{13}H_{11}N_3O$	2-(2′-hydroxy-5′-methylphenyl)benzotriazole				[2440-22-4]
	(293–333)	125.2	(308)	UV	[87/4][60/24]
$C_{13}H_{12}$	diphenylmethane				[101-81-5]
	(273–295)	88.5±0.8	(284)	GS	[99/23]
		87.6±0.8	(298)		[99/23]
	(273–298)	71.5	(286)	EM	[89/1]
	(276–295)	83.3±3.3	(286)	HSA	[86/1]
		82.4±8		V	[59/2][70/1]
	(278–299)	64.0			[51/1][60/1]
		72.0±0.8	(297)		[38/1]
$C_{13}H_{12}$	4-methylbiphenyl				[644-08-6]
		80.2±1.4	(298)	C	[97/27]
$C_{13}H_{12}N_2O$	1,3-diphenylurea				[102-07-8]
	(445–484)	152±6	(464)	TE	[87/2]
$C_{13}H_{12}N_4O_2$	4′-nitro-2-methylaminoazobenzene				
		134.7		GS	[87/19][91/18]
$C_{13}H_{12}O$	diphenylmethanol				[91-01-0]
		105.7±0.7	(298)		[98/22]
$C_{13}H_{12}O$	4-benzylphenol				[101-53-1]
	(313–335)	97.4	(324)		[87/4][60/14]
$C_{13}H_{13}N$	N-phenyl benzylamine				[103-32-2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(293–312)	103.6±1.6	(303)	T	[97/10]
		51.3			[80/8]
$C_{13}H_{14}N_2$	2,2′-diaminodiphenylmethane				[6582-52-1]
	(343–403)	111.3	(358)		[87/4]
$C_{13}H_{16}N_2$	*α*-phenyl-1-piperidineacetonitrile				[5766-79-0]
		73.2±0.4	(298)		[97/28]
$C_{13}H_{16}N_2O_3$	hexahydro-1-(3-nitrobenzoyl)-1*H*-azepine (compound is called hexamethyleneimine m-nitrobenzoate in paper)				[37000-08-1]
	(310–321)	113.0	(315)		[72/8]
		104.6		ME	[70/22][72/8]
$C_{13}H_{17}NO_3$	morpholine cinnamate				
	(298–349)	118.8	(313)		[87/4]
$C_{13}H_{19}NO_2$	cyclohexyl ammonium benzoate				[3129-92-8]
	(289–298)	103.1	(293.5)		[87/4][65/19]
$C_{13}H_{21}NO$	N,N-dimethyl-1-adamantylcarboxamide				[1502-00-7]
	(303–322)	96.9±0.3	(313)	ME	[93/18][95/11]
		97.5±0.3	(298)	ME	[95/11]
$C_{13}H_{21}NO_2$	N-(3-phenoxy-2-hydroxypropyl)-butylamine				[3246-04-6]
	(323–348)	133.9	(335.5)		[87/4]
$C_{13}H_{22}$	1,3,5-trimethyladamantane				[707-35-7]
	(300–360)	77.8±1.3	(298)	BG	[77/11]
$C_{13}H_{22}O_3$	dicyclohexyl carbonate				[4427-97-8]
	(293–313)	66.5±4.2	(303)	ME	[71/11][77/1]
$C_{13}H_{26}O$	7-tridecanone				[462-18-0]
	(287–293)	103.8	(290)	ME	[38/3]
$C_{13}H_{26}O_2$	methyl dodecanoate				[111-82-0]
	(262–273)	121.8±2.1	(267)	ME	[65/6][87/4]
$C_{13}H_{26}O_2$	tridecanoic acid				[638-53-9]
	(282–299)	170		TPTD	[01/15]
$C_{13}H_{26}O_3$	peroxytridecanoic acid				[40915-96-6]
	(293–303)	142.7±5	(298)	ME	[80/23]
$C_{13}H_{27}NO$	N-methyl dodecanamide				[27563-67-3]
	(323–337)	116.6±0.8	(330)	GS	[59/4][87/4]
$C_{13}H_{28}$	*n*-tridecane				[629-50-5]
		91.4	(298)	B	[72/1]
$C_{13}H_{28}$	tri-*tert*-butylmethane				[35660-96-9]
		55.4	(298)	CGC–DSC	[98/5]
	(265–319)	57.0±0.4	(288)	T	[97/7]
	(273–306)	57.7±2.8	(290)	HSA	[95/16]
		61.1±1.3			[95/16]
	(295–330)	7.7±0.1	(311)		[86/2]
$C_{13}H_{28}O$	tri-*tert*-butylmethanol				[41902-42-5]
plastic	(278–318)	56.5±1.0	(298)	TE	[83/18]
crystalline	(269–300)	63.2±1.2	(298)	TE	[83/18]
$C_{14}H_6Cl_2N_2O_4$	1-amino-4-nitro-5,8-dichloroanthraquinone				[66121-41-3]
		158.2			[68/10][88/24]
$C_{14}H_6N_2O_6$	1,4-dinitroanthraquinone				[66121-37-7]
		131.0			[68/10][88/24]
$C_{14}H_6N_6O_{12}$	1,2-*bis*(2,4,6-trinitrophenyl)ethylene				[20062-22-0]
	(434–479)	179.9	(449)	LE	[87/4][69/12]
		180.3			[68/14][66/11]
$C_{14}H_7NO_4$	1-nitroanthraquinone				[82-34-8]
	(407–440)	139.7	(422)	TE	[87/4][70/4]
		108.9±2.1	(396)	C	[82/3]
		137.9±1.7		TE,ME	[70/4]
		115.5			[68/10][88/24]
$C_{14}H_8Cl_4$	1,1-dichloro-2,2-*bis*(4-chlorophenyl)ethylene				[72-55-9]
		74.2			[95/32][89/32]
$C_{14}H_8Cl_6$	1,1,1-trichloro-2-chloro-2,2-*bis*(4-chlorophenyl)ethane				[3563-45-9]
		89.4			[95/32][89/32]
$C_{14}H_8O_2$	9,10-anthraquinone				[84-65-1]
		111.3		GS	[97/19][91/18]
		108.4	(402)	C	[82/3]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(373–453)	98.3	(413)	GS	[77/20][78/35]
		113±0.8	(298)	C	[73/10]
		107.5±0.8	(434)	ME	[73/10]
	(397–471)	107.9±0.8		ME	[73/10]
	(355–356)	U 105.9		TGA	[71/17]
	(470–590)	127.0±3.0		C	[71/6]
		136.6±3	(298)	C	[71/6]
		116.1±1.7		ME,TE	[70/4]
		115.1			[68/10][88/24]
	(343–403)	126.4	(373)	ME	[58/1][87/4]
		112.1	(298)		[56/5][70/1]
		110.9	(298)		[56/1]
		107.9	(298)		[54/3]
		104.6	(367)	ME	[52/3]
		108.0	(298)	ME	[52/3]
$C_{14}H_8O_2$	9,10-phenanthraquinone				[84-11-7]
		108.1	(289)	C	[89/21]
		132	(383)		[56/5][70/1]
$C_{14}H_8O_3$	1-hydroxy-9,10-anthraquinone				[129-43-1]
		113.1		GS	[87/19][91/18]
	(333–383)	120.6	(358)		[58/1][87/4]
		101.3±0.4	(407)	HSA	[56/1]
$C_{14}H_8O_3$	2-hydroxy-9,10-anthraquinone				[605-32-3]
		136.8		GS	[87/19][91/18]
	(393–453)	153.1	(408)		[87/4]
$C_{14}H_8O_3$	2,2′-biphenyldicarboxylic anhydride				[6050-13-1]
	(433–490)	91.4	(448)		[87/4]
$C_{14}H_8O_4$	1,2-dihydroxyanthraquinone				[72-48-0]
	(368–498)	123.8	(383)		[87/4]
		121.9±0.5	(469)	C	[73/4]
	(434–505)	121.5±0.4	(469)	ME	[73/4]
		123.9	(403)	ME	[58/1]
$C_{14}H_8O_4$	1,4-dihydroxyanthraquinone				[81-64-1]
		114.6		GS	[87/19][91/18]
	(353–373)	102.4±4.4	(363)		[84/35]
	(373–453)	89.1	(413)	GS	[77/20][78/35]
	(394–463)	121.9±0.8	(429)	ME	[73/4]
		121.1±4	(429)	C	[73/4]
	(324–351)	U 94.5	(338)	TGA	[71/17]
		123.5	(376)	ME	[58/1][87/4]
		103.5±1.3	(409)	HSA	[56/1]
$C_{14}H_8O_4$	1,5-dihydroxyanthraquinone				[117-12-4]
		123.2±7		ME	[73/10]
	(363–433)	126.8	(398)	ME	[58/1][87/4]
		111.3	(456)		[56/1]
		117.6	(298)		[56/1]
$C_{14}H_8O_4$	1,8-dihydroxyanthraquinone				[117-10-2]
		116.8		ME	[73/10]
	(333–403)	123	(368)	ME	[58/1][87/4]
	(335–356)	U 96.5	(345)	TGA	[71/17]
		105.8±8	(404)	HSA	[56/1]
		109.6±8	(298)		[56/1]
$C_{14}H_8O_4$	2,6-dihydroxyanthraquinone				[84-60-6]
	(463–533)	173.8	(498)		[58/1][87/4]
$C_{14}H_8O_6$	1,4,5,8-tetrahydroxyanthraquinone				[81-60-7]
	(403–473)	151.6	(438)		[58/1][87/4]
$C_{14}H_9ClN_2O_4$	1,5-diaminochloro-4,8-dihydroxyanthraquinone (C.I. disperse blue 56)				[12217-79-7]
	(483–533)	93.3	(498)		[87/4]
$C_{14}H_9Cl_5$	1,1-*bis*(-4-chlorophenyl)-2,2,2-trichloroethane (*p*,*p*′-DDT)				[50-29-3]
	(273–313)	120.2±1.0	(293)	GS	[94/1]
	(323–363)	115	(338)		[87/4]
	(293–353)	110	(304)	GS	[80/35]
	(293–313)	117.8	(303)	GS	[72/11]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(323–363)	117.5	(338)	GS	[56/4][60/1]
	(313–363)	84	(338)	GS	[49/10]
	(339–373)	118	(356)	TE	[47/1]
$C_{14}H_9F_3O_2$	4,4,4-trifluoro-1-(2-naphthyl)-butane-1,3-dione				[893-33-4]
		108.7±0.6	(298)	ME	[97/33]
$C_{14}H_9NO_2$	1-aminoanthraquinone				[82-45-1]
		121.8		GS	[87/19][91/18]
	(413–443)	126.5±1.3	(428)	TE	[87/4][70/4]
	(368–393)	116.3±3.9	(380)		[84/35]
	(373–453)	103.3	(413)	GS	[77/20][78/35]
	(361–386)	U 90.9	(374)	TGA	[71/17]
		125.9±2.5		TE,ME	[70/4]
		131.0			[68/10][88/24]
		113±0.4	(463)	HSA	[56/1]
$C_{14}H_9NO_2$	2-aminoanthraquinone				[117-79-3]
		136.8		GS	[87/19][91/18]
		143.5±2.9		TE,ME	[70/4]
		162.3			[68/10][88/24]
$C_{14}H_9NO_3$	1-hydroxy-4-aminoanthraquinone				[116-85-8]
		127.2		GS	[87/19][91/18]
	(418–438)	131.3±1.7	(428)	TE	[87/4][70/4]
	(444–473)	144	(458.5)		[87/4]
		119.6			[84/40]
		133.5±2.1		TE,ME	[70/4]
		120.1			[68/10][88/24]
$C_{14}H_9N_3O_4$	1,4-diamino-5-nitroanthraquinone				[82-33-7]
	(373–453, not crystalline)	U50.2	(413)	GS	[77/20][78/35]
$C_{14}H_{10}$	anthracene				[120-12-7]
	(423–488)	94.5		MEM	[99/40]
		99.4	(298)	CGC–DSC	[98/5]
	(318–363)	100.0±2.8	(341)	ME	[98/3]
	(343–448)	84.0±3.0	(298)	TGA	[97/38]
	(313–453)	99.7	(383)	GS	[95/7]
	(318–373)	98.7	(346)	GS	[86/7]
	(313–363)	102.6	(338)	GS	[86/8]
	(353–399)	94.3	(376)	GS	[83/3]
	(283–323)	91.8±0.9	(303)	GS	[83/11]
	(323–353)	91.2	(338)	GS	[82/23]
		97.4±1.1		GS,C	[81/3]
		97.8±0.1		HSA	[80/3]
	(337–361)	104.5±1.5	(298)	TE,ME	[80/1]
	(358–393)	94.8	(376)	GS	[79/27]
	(363–448)	98.8±0.4		HSA	[77/8]
	(328–372)	97.2		ME	[76/8]
		97.1		C	[75/20]
	(323–353)	102.9±4.8	(298)	TE	[75/5]
	(283–323)	95.8±6		LE	[73/15]
	(353–432)	101.0±0.5		ME	[73/2]
		99.7	(393)	C	[73/2]
	(290–358)	84.1		ME,C	[72/9][71/6]
	(342–359)	98.3±2.1			[64/3][70/1]
	(327–346)	90±1.3	(337)	TE	[60/2]
		100.8			[58/1][70/1]
	(303–373)	103.4±2.9			[58/1][70/1]
		100.8±4.2			[58/1][70/1]
	(396–421)	97.5±2		HSA	[53/2]
	(339–353)	102.1	(346)		[53/13]
	(338–353)	102.1±2.1			[53/1][70/1]
		92.0±2.1	(364)	ME	[52/3]
		90.4	(353)	ME	[51/12]
		95.4			[51/6]
		95.0			[50/5]
	(378–398)	97.3±1.2		RG	[49/3]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		104.6±4.2			[49/6][70/1]
		93.3±4.2	(353)		[38/1]
$C_{14}H_{10}$	diphenylacetylene				[501-65-5]
		95.3	(298)	CGC–DSC	[98/5]
	(298–316)	95.1±1.1	(298)	ME	[93/5]
	(299–321)	90.0±4.5	(310)	HSA	[86/1]
	(299–321)	88.7±1.25	(313)		[38/1]
					[38/2][60/1]
$C_{14}H_{10}$	phenanthrene				[85-01-8]
		92±1		LE	[98/38]
		90.5	(298)	CGC–DSC	[98/5]
	(303–333)	95.0±4.4	(318)	ME	[98/3]
	(313–453)	88.9	(383)	GS	[95/7]
		87.2±1.1	(350)	DSC	[88/4]
		90.9±1.7	(298)	DSC	[88/4]
	(317–362)	82±2	(340)	TE	[83/27]
	(283–323)	95.0±0.6	(303)	GS	[83/11]
	(315–335)	92.5±2	(298)	TE,ME	[80/1]
	(325–364)	87.2	(345)	GS	[79/27]
		87.2	(372)	B	[75/8]
	(300–330)	87.4±0.8	(298)	TE	[75/5]
	(312–326)	86.6±0.8	(298)	TCM	[U/1][75/5]
		90.9±0.4	(298)	C	[72/1][77/1]
	(279–315)	84.1±2.5	(297)	TE	[60/2]
	(273–333)	95.9	(303)		[58/1][70/1]
	(310–323)	86.6			[53/1][70/1]
					[60/1]
		90.7±1.2	(315)	ME	[52/3]
		81.6	(323)	ME	[51/12]
		92.9			[49/6][70/1]
		84.1±0.8	(313)		[38/1]
$C_{14}D_{10}$	phenanthrene-d_{10}				[1517-22-2]
	(283–323)	92.2±1.1	(303)	GS	[83/11]
$C_{14}H_{10}F_4$	1,1,2,2-tetrafluoro-1,2-diphenylethane				[425-32-1]
		101.8	(298)		[97/34]
$C_{14}H_{10}N_2O_2$	1,4-diaminoanthraquinone				[128-95-0]
		143.0		GS	[87/19][91/18]
	(448–474)	151.2±1.3	(461)		[87/4][70/4]
		136.0			[84/40]
	(378–403)	102.6±9.7	(390)		[84/35]
	(473–453)	123	(413)	GS	[77/20][78/35]
		149.2±2.5		TE,ME	[70/4]
		123.4			[68/10][88/24]
		138.1		GS	[67/16][91/18]
$C_{14}H_{10}N_2O_2$	1,5-diaminoanthraquinone				[129-44-2]
	(405–427)	118.5±4.8	(416)		[84/35]
$C_{14}H_{10}O$	anthrone				[90-44-8]
	(333–368)	103.0±0.8	(350)	GS	[98/21]
		106.1±0.8	(298)	GS	[98/21]
		103.3	(298)		[91/12]
		99.6	(354)	C	[91/12]
$C_{14}H_{10}O_2$	benzil				[134-81-6]
	(319–340)	98.4±1.1	(329)		[59/2][70/1]
					[87/4]
		82.8			[38/1][38/2]
					[60/1]
$C_{14}H_{10}O_3$	benzoic anhydride				[93-97-0]
		96.2±4.2	(298)	B	[71/2][77/1]
		96.7±4.2			[47/2][70/1]
$C_{14}H_{10}O_4$	benzoyl peroxide				[94-36-0]
	(310–340)	97.9±2.5	(298)	ME	[75/9]
	(293–313)	89.7±4.2	(303)	ME	[71/11][77/1]
$C_{14}H_{10}O_4$	diphenyl oxalate				[3155-16-6]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		102.5±8.4		B	[71/2][77/1]
$C_{14}H_{10}O_4$	2,2′-biphenyldicarboxylicacid				[482-05-3]
	(433–493)	166.1	(448)		[87/4]
$C_{14}H_{10}O_5$	O-phenyl-O,O-benzoyl peroxycarbonate				[962-16-3]
		97.9±2.5			[75/9][77/1]
		133.9±4.2		E	[71/11][77/1]
$C_{14}H_{11}FO_3$	2′-fluoro-2-hydroxy-4-methoxybenzophenone				[3119-88-8]
	(307–318)	109.3	(312.5)	EV	[87/4][66/6]
$C_{14}H_{11}FO_3$	3′-fluoro-2-hydroxy-4-methoxybenzophenone				[3506-35-2]
	(322–343)	U 17.3	(332.5)	EV	[87/4][66/6]
$C_{14}H_{11}FO_3$	4′-fluoro-2-hydroxy-4-methoxybenzophenone				[3602-47-9]
	(322–343)	U 37.7	(332.5)	EV	[87/4][66/6]
$C_{14}H_{11}F_3$	1,1,2-trifluoro-1,2-diphenylethane				[68936-77-6]
		93.1	(298)		[97/34]
$C_{14}H_{11}N_3O_2$	1,4,5-triaminoanthraquinone				[6407-69-8]
	(373–453)	U70.3	(413)	GS	[77/20][78/35]
$C_{14}H_{12}$	9,10-dihydroanthracene				[613-31-0]
	(313–453)	93.9	(383)	GS	[95/7]
	(318–379)	92.4±4		ME	[75/12][87/4]
		94.2±0.8	(298)	ME	[75/12]
	(319–377)	92.2±0.6		C	[75/12][87/4]
		93.9±0.6	(298)	C	[75/12]
	(279–328)	93.3±4	(304)		[58/1][70/1]
		89.5	(388)		[51/2][60/1]
$C_{14}H_{12}$	*trans*-diphenylethene				[103-30-0]
		102.0	(298)	CGC–DSC	[98/5]
	(298–343)	99.6	(313)		[87/4]
		U 61.1		MS	[83/9]
	(293–338)	103.8±2.5	(315)		[83/16]
		100.7±0.4	(298)	SRFG TE,ME,DM	[83/1]
	(310–340)	99.6±1.7	(298)	TE	[75/5]
		102.1±0.6		TCM	[73/1]
		99.2±0.4			[72/1]
	(303–315)	86.5±0.1	(309)	TM	[55/5]
$C_{14}H_{12}$	9-methylfluorene				[2523-37-7]
	(318–358)	82.8±0.3	(338)	B	[94/2]
		82.8±0.3	(298)		[94/2]
$C_{14}H_{12}F_2$	1,1-difluoro-1,2-diphenylethane				[350-62-9]
		94.7±0.9	(298)		[97/34]
$C_{14}H_{12}N_2$	N-methyl-9-acridinamine				[22739-29-3]
		107	(480)	TGA	[98/29]
$C_{14}H_{12}N_2$	10-methyl-9-acridinimine				[5291-44-1]
		94	(550)	TGA	[98/29]
$C_{14}H_{12}N_2$	dibenzylideneazine				[588-68-1]
		93.3±2.1	(293)		[48/2]
$C_{14}H_{12}N_2O_2$	*cis*-5a,6,11a,12-tetrahdro[1,4]benzothiazino[3,2-b][1,4]benzoxazine				[192998-96-2]
	(383–392)	122.0	(387)	ME	[97/1]
		129.0±1.3	(298)		[97/1]
$C_{14}H_{12}N_2S_2$	*cis*-5a,6,11a,12-tetrahdro[1,4]benzothiazino[3,2-b][1,4]-benzothiazine				[165454-33-1]
	(383–392)	118.0	(387)	ME	[97/1]
		123.3±1.2	(298)		[97/1]
$C_{14}H_{12}N_4O_2$	1,4,5,8-tetraminoanthraquinone				[2475-45-8]
	(373–453)	U82	(413)	GS	[77/20][78/35]
$C_{14}H_{12}O$	desoxybenzoin				[451-40-1]
		99.3±4.2			[47/2][70/1]
$C_{14}H_{12}O_2S$	E-(2-phenylethenyl)sulfonylbenzene (phenyl *trans*-B-styrylsulfone)				[16212-06-9]
		105±3.8		B	[69/11][77/1]
$C_{14}H_{12}O_3$	2-hydroxy-4-methoxybenzophenone				[131-57-7]
	(281–337)	118.9	(296)	UV	[87/4][60/24]
	(308–323)	U39.7	(315)	EV	[66/6]
$C_{14}H_{12}O_4$	2,2′-dihydroxy-4-methoxybenzophenone				[131-53-3]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		103.8		B	[99/22]
	(303–342)	228	(318)	UV	[87/4][60/24]
$C_{14}H_{12}O_4$	2,4-dihydroxy-4′-methoxybenzophenone				[131-53-3]
		138.3		B	[99/22]
$C_{14}H_{13}N$	N-ethylcarbazole				[86-28-2]
	(310–329)	98.4±0.3	(319)	ME	[90/8]
		99.1±0.3	(298)	ME	[90/8]
$C_{14}H_{13}NO$	N,N-diphenylacetamide				[519-87-9]
	(343–376)	122.7	(358)		[87/4]
$C_{14}H_{13}NO_2$	N-(4-methoxyphenylmethylene) benzenamine N-oxide				[3585-93-1]
		130.6±1.2	(298)	C	[86/10]
$C_{14}H_{14}$	2,2′-dimethylbiphenyl				[605-39-0]
	(283–288)	65.7	(285)	ME	[74/6][87/4]
$C_{14}H_{14}$	3,3′-dimethylbiphenyl				[612-75-9]
	(288–308)	71.9	(298)	ME	[74/6]
$C_{14}H_{14}$	4,4′-dimethylbiphenyl				[613-33-2]
		95.1±2.0	(298)	C	[97/27]
$C_{14}H_{14}$	1,2-diphenylethane				[103-29-7]
	(293–323)	92.9	(308)	EM	[89/1]
	(273–318)	91.2±0.4	(295)		[83/16]
		91.5±0.7	(298)	B	[80/27]
		91.4±0.5	(298)	C	[72/1]
	(286–307)	84.1±0.4		V	[59/2][70/1]
	(290–317)	72.4±1.3	(304)	ME	[51/1]
		73.2			[38/1][60/1]
					[38/2]
$C_{14}H_{14}FN_3$	N,N-dimethyl-4-[(4-fluorophenyl)azo]benzenamine				[150-74-3]
		91.2		UV	[84/39]
$C_{14}H_{14}FN_3O_2S$	4-[[4-(dimethylamino)phenyl]azo]benzenesulfonyl chloride				[4644-89-7]
		105.6		UV	[84/39]
$C_{14}H_{14}NO_3$	*bis*(4-methoxyphenyl)nitrogen oxide				[2643-00-7]
	(328–363)	100.7	(343)		[87/4][65/7]
$C_{14}H_{14}N_2$	N,N′-diphenylacetamidine				[621-09-0]
	(343–383)	122.6±3.8	(363)	ME	[58/12]
$C_{14}H_{14}N_2O$	*p*-azoxyanisole				[1562-94-3]
		134.8±3.7	(298)	C	[93/11]
$C_{14}H_{14}N_2O_2$	4-(2-hydroxyethoxy)azobenzene				
		120.9		GS	[56/14][91/18]
$C_{14}H_{14}N_4O_2$	3-nitro-4′-(N,N-dimethylamino)azobenzene				[3837-55-6]
	(388–412)	133.9±3.8	(400)	ME	[67/7]
	(392–410)	133.1±3.8	(401)	TE	[67/7][87/4]
$C_{14}H_{14}N_4O_2$	4-nitro-4′-(N,N-dimethylamino)azobenzene				[2491-74-9]
	(413–425)	134.3±7.5	(419)	ME	[67/7][66/18]
	(414–428)	135.1±0.9	(421)	TE	[67/7][87/4]
		134.3		ME	[56/14][91/18]
$C_{14}H_{14}O$	1,1-diphenylethanol				[599-67-7]
		105.0±0.8	(298)		[98/22]
$C_{14}H_{14}O_2S$	dibenzyl sulfone				[620-32-6]
		125.5±2.9			[U/3][70/1]
$C_{14}H_{14}O_2S$	di-*p*-tolyl sulfone				[599-66-6]
		109.6±2.9			[U/3][70/1]
$C_{14}H_{14}O_8$	1,2,4,5-tetramethoxycarbonylbenzene				[635-10-9]
	(371–391)	140.4±0.8	(381)	ME	[95/6]
		143.3±0.8	(298)		[95/6]
		135.9±1.3	(298)		[67/8][95/6]
$C_{14}H_{14}S$	dibenzyl sulfide				[538-74-9]
		93.3±5		E	[62/5][70/1]
$C_{14}H_{15}N_3$	4-(N,N-dimethylamino)azobenzene				[60-11-7]
	(346–354)	117.6±1.7	(350)	ME	[67/7]
	(352–354)	115.9±1.3	(353)	TE	[67/7]
		120.9±1.7	(373)	ME	[56/2][87/4]
$C_{14}H_{15}N_3$	(E) 4-(N,N-dimethylamino)azobenzene				[25548-37-2]
		132±8	(381)	TE	[85/22]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{14}H_{15}N_3$	2,3′-dimethyl-4-aminoazobenzene				
		112.5		GS	[87/19][91/18]
$C_{14}H_{16}$	1,4,5,8-tetramethylnaphthalene				[2717-39-7]
		99.8±1.4	(298)	C	[74/14][77/1]
$C_{14}H_{16}ClN_3O_2$	{1-(4-chlorophenoxy)-3,3-dimethyl-1-(1*H*-1,2,4-triazol-1-y1)}butanone				
	(Triadimefon)				[43121-43-3]
	(298–343)	111.1±2.2	(303)	GS	[97/6]
$C_{14}H_{16}O_5$	benzoyl(3-cyclohexyloxy)carbonyl peroxide				[20666-86-8]
	(293–313)	96.2±4.2	(303)	ME	[71/11][77/1]
$C_{14}H_{18}N_2O_5$	2,6-dimethyl-3,5-dinitro-4-*tert*-butylacetophenone				[81-14-1]
	(293–353)	107.9	(323)	ME	[53/7][60/1]
$C_{14}H_{18}O$	diamantanone				[30545-23-4]
		103.1±.62	(320)	TSGC	[80/4]
$C_{14}H_{18}O_2$	6,6-dimethyl-1-phenyl-4,8-dioxaspiro[2.5]octane				[180988-52-7]
		97.5±0.3	(298)		[98/26]
$C_{14}H_{20}$	1,8-cyclotetradecadiyne				[1540-80-3]
	(315–364)	87.6±1.0	(338)	HSA	[98/5]
		94.3	(298)	CGC–DSC	[98/5]
	(317–332)	166.0±3.2	(325)	ME	[64/1][70/1]
$C_{14}H_{20}$	1,2,3,4,5,6,7,8-octahydroanthracene (octhracene)				[1079-71-6]
	(438–499)	82.3±1.2	(298)	BG	[71/1][77/1]
$C_{14}H_{20}$	diadamantane				[2292-79-7]
	(305–333)	96.0±0.8	(319)	TSGC	[75/2]
		117.2±8		B	[71/9]
$C_{14}H_{20}O$	diamantan-1-ol				[30545-14-3]
	(319–349)	118.±0.6	(334)		[80/4][75/2]
$C_{14}H_{20}O$	diamantan-3-ol				[30545-24-5]
	(323–354)	116.1±4.4	(338)		[80/4][75/2]
$C_{14}H_{20}O$	diamantan-4-ol				[30651-03-7]
	(322–353)	117.8±0.2	(337)		[80/4][75/2]
$C_{14}H_{20}O_5$	benzo-15-crown-5				[14098-44-3]
		123.2±2.0	(298)	CGC–DSC	[00/11]
$C_{14}H_{21}F_3N_2O_4$	proline, 1-[N-(trifluoroacetyl)-1-leucyl]methyl ester				
	(313–366)	121.3	(328)		[87/4][60/20]
$C_{14}H_{21}NO$	4-isopropylbenzylidene t-butylamine N-oxide				[121678-88-4]
		101.8±4.1	(298)	C	[89/15]
$C_{14}H_{22}$	1,4-di-*tert*-butylbenzene				[1012-72-2]
	(288–333)	82.1±0.4	(310)	T	[98/14]
		82.8±0.4	(298)		[98/14]
	(285–325)	82.8	(305)	ME,RG	[51/5][87/4]
$C_{14}H_{22}O$	2,6-di-*tert*-butylphenol				[128-39-2]
		84.6±0.5	(298)	GS	[99/17]
		81.5±2.3	(298)	C	[99/21]
		U110.9	(298)	C	[71/24][99/17]
$C_{14}H_{22}O$	2,4-di-*tert*-butylphenol				[96-76-4]
	(288–327)	86.1±0.3	(308)	GS	[99/13]
		86.7±0.3	(298)		[99/13]
		92.9±2.8	(298)	C	[99/21]
$C_{14}H_{22}O$	3,5-di-*tert*-butylphenol				[1138-52-9]
		97.7±3.7	(298)		[01/17]
	(302–325)	68.2	(313.5)		[87/4]
$C_{14}H_{22}O$	4-*tert*-octylphenol				[124765-79-3]
	(297–351)	96.3±0.9	(324)	GS	[99/13]
		97.9±0.9	(298)		[99/13]
$C_{14}H_{22}O_2$	3,5-di-*tert*-butyl-1,2-dihydroxybenzene				[1020-31-1]
	(313–346)	103.7±0.5	(330)	GS	[00/21]
		104.7±0.5	(298)		[00/21]
		100.1±0.6	(298)	C	[84/20]
$C_{14}H_{22}O_2$	2,5-di-*tert*-butyl-1,4-dihydroxybenzene				[88-58-4]
	(333–368)	108.8±1.7	(351)	GS	[99/28]
		122.4±1.7	(298)		[99/28]
$C_{14}H_{22}O_6$	dicyclohexyl peroxydicarbonate				[1561-49-5]
		100.4±4.2			[71/11][77/11]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(293–313)	100.4±8.3	(303)	ME	[62/3][70/1]
$C_{14}H_{24}$	*trans-anti-trans* perhydroanthracene				[28071-99-0]
	(269–313)	66.1	(284)		[87/4]
	(275–313)	72.7±3.3	(294)	ME	[63/2][70/1]
$C_{14}H_{24}$	*trans-syn-trans* perhydroanthracene				[1755-19-7]
	(293–335)	88.1	(308)		[87/4]
	(335–393)	87.4±2.4	(365)	ME	[63/2][70/1]
$C_{14}H_{24}$	1,3,5,7-tetramethyladamantane				[1687-36-1]
	(310–350)	83.7±1.3	(298)	BG	[77/11]
	(295–315)	81.1±10.9	(305)	TSGC	[75/2]
$C_{14}H_{26}O$	cyclotetradecanone				[295-17-0]
		80.75			[38/1][60/1]
$C_{14}H_{28}$	cyclotetradecane				[295-17-0]
		95.6	(298)	CGC–DSC	[98/5]
	(300–321)	97.9±1.7	(310)	HSA	[92/1]
	(295–307)	134.8±1.5	(301)	ME	[64/1][70/1]
	(285–290)	89.3±0.4	(287)	TM	[55/5]
$C_{14}H_{28}O$	2-tetradecanone				[2345-27-9]
		130.9±0.5	(298)	C	[79/8]
$C_{14}H_{28}O_2$	tetradecanoic acid (myristic acid)				[544-63-8]
	(282–305)	174		TPTD	[01/15]
	(312–325)	139.7±3.8	(318)	ME	[61/1][70/1]
$C_{14}H_{28}O_3$	peroxytetradecanoic acid				[19816-73-0]
	(293–303)	156.0±4.1		ME	[80/23]
$C_{14}H_{29}NO$	tetradecanamide				[638-58-4]
	(248–375)	167.4±2.5	(352)	ME	[59/3][87/4]
$C_{14}H_{30}$	*n*-tetradecane				[629-59-4]
		117.6	(298)	B	[72/1]
$C_{14}H_{30}O$	1-tetradecanol				[112-72-1]
		126.0±0.6			[77/17]
	(293–307)	143.9	(300)	ME	[65/6]
$C_{15}H_{10}O$	diphenylcyclopropenone				[886-38-4]
	(353–378)	119.7±8	(365)	HSA	[85/3]
	(323–343)	141±4	(333)	ME	[76/9][87/4]
$C_{15}H_{10}O_2$	α-benzoyloxyphthalide				
	(343–388)	U 125.3	(366)		[89/9]
$C_{15}H_{10}O_3$	1-methoxy-9,10-anthraquinone				[82-39-3]
		128.0		GS	[87/19][91/18]
		106.6	(385)	HSA	[56/1]
$C_{15}H_{10}O_3$	2-methoxy-9,10-anthraquinone				[3274-20-2]
		124.7		GS	[87/19][91/18]
		118.4±0.4	(419)	HSA	[56/1]
$C_{15}H_{11}F_3O_3$	2-hydroxy-2′-trifluoromethyl-4-methoxybenzophenone				[3119-86-6]
	(323–363)	U 13.3	(338)	EV	[87/4][66/6]
$C_{15}H_{11}F_3O_3$	2-hydroxy-3′-trifluoromethyl-4-methoxybenzophenone				[7396-89-6]
	(313–323)	103.8	(318)	EV	[87/4][66/6]
$C_{15}H_{11}F_3O_3$	2-hydroxy-4′-trifluoromethyl-4-methoxybenzophenone				[7396-90-9]
	(313–333)	91	(323)	EV	[87/4][66/6]
$C_{15}H_{11}N$	2-phenylquinoline				[612-96-4]
	(337–351)	103.1±0.8	(344)	ME	[97/14]
		105.4±0.9	(298)		
$C_{15}H_{11}NO_2$	1-amino-2-methyl-9,10-anthraquinone				[82-28-0]
	(360–388)	124.6±7.3	(374)		[84/35]
$C_{15}H_{11}NO_2$	1-(N-methylamino)-9,10-anthraquinone				[82-38-2]
		112.6			[84/40]
	(363–383)	115.9±3.5	(373)		[84/35]
	(384–405)	123.8±3.3	(395)	ME	[60/8][87/4]
		123.8±3.2		ME	[64/11][91/18]
					[66/18]
		115.5±0.4	(461)	HSA	[56/1]
		114.7±3	(406)	HSA	[56/1]
$C_{15}H_{11}NO_4$	1-amino-2-methoxy-4-hydroxy-9,10-anthraquinone				
		132.0			[84/40]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{15}H_{11}N_3O_2$	4-hydroxy-3-(phenylazo)-2(1*H*)-quinolinone (Disperse Yellow 4)				[6407-80-3]
		127.2			[68/10][88/24]
$C_{15}H_{12}$	9-methylanthracene				[779-02-2]
		98.9		RG	[58/4]
$C_{15}H_{12}N_2O_2$	1-amino-4-(N-methylamino)anthra-9,10-quinone				[1220-94-6]
		140.6		GS	[67/16][91/18]
$C_{15}H_{12}N_2O_3$	1,4-diamino-2-methoxyanthra-9,10-quinone				[2872-48-2]
		147.0			[84/40]
		151.9		GS	[67/16][91/18]
$C_{15}H_{12}O$	dibenzosuberone				[1210-35-1]
		109.3	(298)	B	[98/21]
$C_{15}H_{12}O$	5,7-dihydro-6*H*-dibenzo[a,c]cyclohepten-6-one				[1139-82-8]
(333–347)		93.4±0.8	(340)	GS	[98/21]
		95.6±0.8	(298)	GS	[98/21]
$C_{15}H_{12}O_2$	dibenzoylmethane				[120-46-7]
		115.7±0.9	(298)	ME	[92/28]
$C_{15}H_{13}ClN_2O_5$	gallocyanine (C.I. Disperse Blue 95)				[1562-85-2]
(433–493)		88.2	(448)		[87/4]
$C_{15}H_{13}NO_2$	N-benzoyl-N-methylbenzamide				[23825-32-3]
(246–269)		116.8±0.4	(356)	ME	[97/12]
		120.1±0.4	(298)		[97/12]
$C_{15}H_{14}Cl_2N_4O_3$	4-(N-methyl-N-2-hydroxyethylamino)-4′-nitro-2′,6′-dichloroazobenzene				[6232-56-0]
		135.1			[68/10][88/24]
$C_{15}H_{14}F_3N_3$	N,N-dimethyl-4-[[4-(trifluoromethyl)phenyl]azo]benzenamine				[405-82-3]
		95.8		UV	[84/39]
$C_{15}H_{14}F_3N_3O$	N,N-dimethyl-4-[[4-(trifluoromethoxy)phenyl]azo]benzenamine				[1494-75-3]
		96.8		UV	[84/39]
$C_{15}H_{14}F_3N_3S$	N,N-dimethyl-4-[[4-[(trifluoromethyl)thio]phenyl]azo]benzenamine				[1494-77-5]
		100.8		UV	[84/39]
$C_{15}H_{14}N_2$	N,N-dimethyl-9-acridinamine				[3295-59-8]
		86	(510)	TGA	[98/29]
$C_{15}H_{14}N_2$	N-methyl-10-methylacridinimine				[213623-43-9]
		72	(480)	TGA	[98/29]
$C_{15}H_{14}O$	4,5,6-trimethylbenzoxalene				[10435-68-4]
		139.7±2.5			[66/3][70/1]
$C_{15}H_{14}O$	1,3-diphenyl-2-propanone				[102-04-5]
		89.1±5			[54/2][77/1]
					[70/1]
$C_{15}H_{14}O_2$	2,2-diphenyl-1,3-dioxalane				[4359-34-6]
		99.7±1.1	(298)		[98/26]
$C_{15}H_{14}O_2S$	(Z)-1-methyl-4-(2-phenylethenyl)sulfonyl benzene				[54897-33-5]
		116.3±3.8		B	[69/11][77/1]
$C_{15}H_{14}O_2S$	(E)-1-methyl-4-(2-phenylethenyl)sulfonyl benzene				[16212-08-1]
		108.4±2.5		B	[69/11][77/1]
$C_{15}H_{14}O_4$	2-hydroxy-4,4′-dimethoxybenzophenone				[631-38-0]
		121.1		B	[99/22]
$C_{15}H_{14}O_5$	2,2′-dihydroxy-4,4′-dimethoxybenzophenone				[131-54-4]
		130.2		B	[99/22]
		147.0		UV	[60/24]
$C_{15}H_{15}N_3O_2$	N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide (Disperse Yellow 3)				[2832-40-8]
(403–465)		107	(434)	GS	[89/29]
		140.6			[68/10][88/24]
$C_{15}H_{16}N_4O_2$	3-methyl-3′-nitro-4-N,N-dimethylaminoazobenzene				[4313-14-8]
(368–393)		101.7±1.7	(381)	ME	[67/7]
(370–388)		98.7±2.5	(379)	TE	[67/7]
$C_{15}H_{16}N_4O_2$	3-methyl-4′-nitro-4-N,N-dimethylaminoazobenzene				[92114-99-3]
(369–392)		125.5±1.3	(381)	TE	[67/7][87/4]
(371–390)		126.4±3.8	(381)	ME	[67/7]
$C_{15}H_{16}O_2$	dimethoxydiphenylmethane				[2235-01-0]
		103.9±1.7	(298)		[98/26]
$C_{15}H_{17}NO_2$	N-(2-hydroxy-3-phenoxypropyl)phenylamine				[16112-55-3]
(323–333)		99.9	(328)		[87/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		113.8±2.1			[76/19]
$C_{15}H_{18}N_2$	4-isopropylaminodiphenylamine				[101-72-4]
	(323–348)	120.7	(335)	GS	[71/19]
$C_{15}H_{21}NO$	2-methyl-1-phenyl-2-N-piperidinyl-1-propanone				[13430-30-3]
		94.8±1.3		B	[94/11]
$C_{15}H_{22}$	1-methyldiamantane				[26460-76-4]
	(310–333)	80.7±0.4	(321)	TSGC	[75/2]
$C_{15}H_{22}$	3-methyldiamantane				[38375-86-2]
	(305–327)	103.1±1.0	(316)	TSGC	[75/2]
$C_{15}H_{22}$	4-methyldiamantane				[30545-18-9]
	(310–333)	79.4±1.25	(321)	TSGC	[75/2]
$C_{15}H_{22}O_2$	3,5-di-*tert*-butylbenzoic acid				[16225-26-6]
	(339–357)	108.4±4.2	(348)	ME	[74/15][87/4] [77/1]
$C_{15}H_{24}$	1,3-di-*tert*-butyl-5-methylbenzene				[15181-11-0]
	(275–301)	82.4±0.5	(288)	T	[98/14]
		81.8±0.5	(298)		[98/14]
$C_{15}H_{24}O$	2,6-di-*tert*-butyl-4-methylphenol				[128-37-0]
		91.9±3.2	(298)	C	[01/17]
		86.8±0.8	(319)	GS	[99/17]
		88.0±0.8	(298)	GS	[99/17]
	(303–343)	87.8	(318)	GS	[87/4][71/19]
		U117.3	(298)	C	[71/24][99/17]
$C_{15}H_{28}O$	cyclopentadecanone				[502-72-7]
	(296–315)	86.0±0.6	(305)	ME	[97/13]
		77.4			[38/1][60/1] [70/1]
$C_{15}H_{28}O_2$	pentadecanolide				[32539-85-8]
	(290–310)	81.3	(300)	ME	[87/4][60/1] [54/4]
$C_{15}H_{30}$	cyclopentadecane				[295-48-7]
		74.6±0.4			[57/1][70/1]
$C_{15}H_{30}O$	2-pentadecanone				[2345-28-0]
		139.3±1.6	(298)	C	[79/8]
$C_{15}H_{30}O_2$	methyl tetradecanoate				[124-10-7]
		137.7±2.1	(281)	ME	[65/6]
$C_{15}H_{30}O_2$	pentadecanoic acid				[1002-84-2]
	(283–305)	178		TPTD	[01/15]
$C_{15}H_{31}NO$	N-methyl tetradecanamide				[7438-09-7]
	(332–347)	130.4±0.8	(340)	GS	[59/4][87/4]
$C_{15}H_{32}$	*n*-pentadecane				[629-62-9]
		107.8	(298)	B	[72/1]
$C_{16}F_{34}$	*n*-perfluorohexadecane				[355-49-7]
	(288–303)	104.6	(295)	ME	[51/9][87/4]
$C_{16}H_6Br_4N_2O_2$	5,7-dibromo-2-(5,7-dibromo-1,3-dihydro-3-oxo-2*H*-indol-2-ylidene)-1,2-dihydro-3*H*-indol-3-one (C.I. Vat Blue 5)				[2475-31-2]
	(519–634)	129	(577)	GS	[86/14]
$C_{16}H_9BrN_2O_2$	5-bromo-2-(1,3-dihydro-3-oxo-2*H*-indol-2-ylidene)-1,2-dihydro-3*H*-indol-3-one (C.I. Vat Blue 3)				[6492-73-5]
	(519–634)	57	(577)	GS	[86/14]
$C_{16}H_{10}$	fluoranthene				[206-44-0]
	(313–453)	98.3	(383)	GS	[95/7]
	(283–323)	84.6±0.9	(303)	GS	[83/11]
		99.2±0.8	(298)	C	[72/1][77/1]
	(328–353)	102.1±2	(340)	ME	[65/3][70/1]
	(298–358)	102.6	(328)		[58/1]
$C_{16}H_{10}$	pyrene				[129-00-0]
	(308–398)	103.1±6.5	(353)	ME	[98/3]
	(313–453)	97.9	(383)	GS	[95/7]
	(369–383)	100.3±0.3	(353)	PG	[88/26]
	(283–323)	91.2±0.5	(303)	GS	[83/11]
	(398–423)	100.2±0.4	(410)	IPM	[80/26]
		101.0±0.5		C	[74/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(348–419)	100.8±1.5		ME	[74/4]
		95.7		ME	[53/1][77/1] [70/1]
	(298–363)	100.5	(330)	ME	[58/1]
	(345–358)	100.1±1.7	(351)	ME	[52/3]
$C_{16}H_{10}O$	1-hydroxypyrene				[5315-79-7]
	(369–394)	129.0±3.2	(382)	ME	[98/3]
$C_{16}H_{10}N_2O_2$	2-(1,3-dihydro-3-oxo-2*H*-indol-2-ylidene)-1,2-dihydro-3*H*-indol-3-one (C.I. Vat Blue 1)				[482-89-3]
	(519–634)	136	(577)	GS	[86/14]
$C_{16}H_{10}O$	2,3,5,6-dibenzoxalene (benz[b]indeno[1,2-e]pyran)				[243-24-3]
	(375–388)	125.9	(381.5)		[87/4]
		129.4±1.3			[66/3][70/1]
$C_{16}H_{10}S$	1,2-benzodiphenylene sulfide				[239-35-0]
	(325–373)	111.9±1.2	(349)	ME	[98/3]
$C_{16}H_{12}N_2O$	2-hydroxy-1-phenylazonaphthalene				[842-07-9]
	(350–374)	116.7±5.4	(362)		[84/35]
$C_{16}H_{12}O$	2,5-diphenylfuran				[955-83-9]
		102	(340)		[89/7]
$C_{16}H_{12}S_2$	3,6-diphenyl-1,2-dithiin				[16212-85-4]
		174.5±2.5	(355)		[73/23][77/1]
		183.1±2.5	(298)		[73/23][77/1]
$C_{16}H_{13}N$	N-phenyl-1-naphthylamine				[90-30-2]
	(313–333)	96.5	(323)	GS	[87/4][71/19]
$C_{16}H_{13}N$	N-phenyl-2-naphthylamine				[135-88-6]
	(333–363)	115.8	(348)	GS	[87/4][71/19]
$C_{16}H_{13}NO$	9-acetamidoanthracene				[37170-96-0]
	(446–500)	134.8	(461)	RG	[58/4][87/4]
$C_{16}H_{13}NO$	N-(4-hydroxyphenyl)-2-naphthylamine				[93-45-8]
	(373–408)	126.8	(390)	GS	[71/19]
$C_{16}H_{13}NO_2$	1-(dimethylamino)-9,10-anthraquinone				[5960-55-4]
	(396–408)	U 3.6	(402)		[87/4]
$C_{16}H_{13}NO_3$	1-(2-hydroxyethylamino)-9,10-anthraquinone				[4465-58-1]
	(403–417)	152.7±3.8	(410)	ME	[60/8][66/18]
$C_{16}H_{13}NO_5$	1-amino-2-hydroxyethyl-4-hydroxy-9,10-anthraquinone				
		135.2			[84/40]
$C_{16}H_{14}$	9,10-dimethylanthracene				[781-43-1]
	(372–382)	114.6	(377)		[87/4]
	(381–434)	103.2	(396)	RG	[58/4][87/4]
$C_{16}H_{14}$	2,7-dimethylphenanthrene				[1576-69-8]
		106.7±0.8		ME	[65/5][70/1]
$C_{16}H_{14}$	4,5-dimethylphenanthrene				[3674-69-9]
	(313–453)	85.7	(383)	GS	[95/7]
		104.6±1.3		ME	[65/5][70/1]
$C_{16}H_{14}$	9,10-dimethylphenanthrene				[604-83-1]
		119.5±1.3			[66/3][70/1]
$C_{16}H_{14}$	1-phenylnaphthalene				[605-02-7]
	(313–453)	88.6	(383)	GS	[95/7]
$C_{16}H_{14}$	1,4-diphenylbutadiene				[866-65-7]
		87.0		RG	[58/4]
$C_{16}H_{14}$	4,5,9,10-tetrahydropyrene				[781-17-9]
	(385–410)	90.4	(400)	IPM	[93/7]
$C_{16}H_{14}Cl_2O_2$	1,1-dichloro-2,2-*bis*-(4-methoxyphenyl)ethylene				[4359-34-6]
		79.2			[95/32][89/32]
$C_{16}H_{14}F_4N_4O_2$	N-methyl-N-(2,2,3,3-tetrafluoropropyl)-4-[(4-nitrophenyl)azobenzenamine				[80135-84-8]
		100.8		UV	[84/39]
$C_{16}H_{14}N_2O_2$	1,4-*bis*(N-methylamino)anthra-9,10-quinone				[2475-44-7]
	(385–413)	151.8±3.9	(399)		[84/35]
		150.2		GS	[67/16][91/18]
$C_{16}H_{15}NO$	3-anilino-1-phenylbut-2-enone				[18594-93-9]
		126.8±3.0	(298)	C	[93/24]
$C_{16}H_{16}$	[2.2]-para-cyclophane				[1633-22-3]
	(353–409)	96.4±1.5		TSGC	[80/15]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		96.3±4.2			[73/13][77/1]
	(343–383)	92.9±0.84	(363)	ME	[66/11][87/4]
					[70/1]
$C_{16}H_{16}$	[2.2]-meta-cyclophane				[2319-97-3]
	(308–332)	91.6±1.7	(320)	ME	[69/6][77/1]
					[87/4]
		92.0±2	(298)	ME	[69/6][77/1]
$C_{16}H_{16}$	[2.2]-meta-para-cyclophane				[5385-36-4]
	(311–328)	86.6	(336)	ME	[69/6][77/1]
					[87/4]
		87.5±0.9	(298)	ME	[69/6][77/1]
$C_{16}H_{16}$	1,1-*bis*-(4-methylphenyl)ethane				[2919-20-2]
		101.0±1.4	(298)		[99/19]
$C_{16}H_{16}$	1,2,3,6,7,8-hexahydropyrene				[1732-13-4]
	(390–405)	92.3	(398)	IPM	[93/7]
$C_{16}H_{16}O_3$	α,α-dimethylbenzyl perbenzoate				[7074-00-2]
	(293–313)	43.1±4.2	(303)	ME	[71/11][77/1]
$C_{16}H_{16}O_{10}$	pentamethoxycarbonylbenzene				[3327-06-8]
	(389–413)	160.0±0.8	(401)	ME	[95/6]
		165.1±0.8	(298)		[67/8][95/6]
$C_{16}H_{17}ClN_4O_3$	4-(N-ethyl-N-2-hydroxyethylamino)-4′-nitro-2′-chloroazobenzene				[3180-81-2]
		142.7			[68/10][88/24]
$C_{16}H_{17}F$	2-fluoro-2-methyl-1,3-diphenylpropane				[193472-70-7]
		102.2±1.1	(298)		[97/34]
$C_{16}H_{17}NO$	1,2-diphenyl-2-N,N-dimethylamino-1-ethanone				[15582-77-5]
		140.1±1.9		B	[94/11]
$C_{16}H_{17}NO$	N-(4-isopropylphenylmethylene) benzenamine N-oxide				[99081-88-6]
		127.2±1.7	(298)	C	[86/10]
$C_{16}H_{18}$	(*dl*) 1,3-diphenylbutane				[1520-44-1]
	(288–303)	73.6	(296)	ME	[74/6][87/4]
$C_{16}H_{18}$	2,3-diphenylbutane				[5789-35-5]
	(293–348)	96.7	(326)		[84/16]
$C_{16}H_{18}NO_5$	*bis*(2,4-dimethoxyphenyl)nitrogen oxide				[3788-15-6]
	(333–363)	144.1±11.4	(348)		[87/4][65/7]
$C_{16}H_{18}N_2O_3$	*p*-azoxyphenetole				[4792-83-0]
		126.2±2.7	(298)	C	[93/11]
$C_{16}H_{18}N_2O_2$	2,2′,6,6′-tetramethylazobenzene-N,N-dioxide				[101225-69-8]
		107±12	(298)	ME	[93/3]
$C_{16}H_{18}N_4O_2$	4-(N,N-diethylamino)-4′-nitroazobenzene				[3025-52-3]
		146.0		GS	[87/19][91/18]
	(422–441)	151.5±4.2	(431)	ME	[60/8]
$C_{16}H_{18}N_4O_3$	4-(N-ethyl-N-2-hydroxyethylamino)-4′-nitroazobenzene				[2872-52-8]
		136.8		UV	[84/39][84/40]
		189.5			[68/10][88/24]
	(420–433)	176.6±1.3	(426)	ME	[60/8][66/18]
$C_{16}H_{19}N_3$	4-(N,N-diethylamino)azobenzene				[2481-94-9]
		132.2		GS	[87/19][91/18]
	(330–353)	91.4±2.9	(342)		[84/35]
		106.4		UV	[84/39]
		103.4			[84/40]
$C_{16}H_{23}N$	N-cyclohexyl-(2,4,6-trimethyl)benzaldehyde imine				[199394-72-4]
		104.9±0.8	(298)	B	[97/18]
$C_{16}H_{24}N_2O_2$	N-benzoyl-N′,N′-diisobutylurea				
		137.5±4.4	(298)	C	[00/28]
$C_{16}H_{26}O$	2,4,5-triisopropylbenzyl alcohol				
	(313–346)	113.0	(330)		[63/13]
$C_{16}H_{28}$	tricyclo[8.2.2.2^{4,7}]hexadecane				[283-68-1]
	(316–338)	85.2±1.3	(327)	ME	[69/6][77/1]
					[87/4]
	(316–338)	91.6±2.1	(298)	ME	[69/6][77/1]
$C_{16}H_{30}N_2$	tetracyclopropylsuccinonitrile				[19219-01-3]
		110.2±1.5			[84/22]
$C_{16}H_{30}O$	cyclohexadecanone				[2550-52-8]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		82			[38/1][60/1]
$C_{16}H_{30}O_4$	hexadecanedioic acid				[505-54-4]
	(377–398)	151.0±3.3	(388)	ME	[60/4][87/4]
		155.4±3.3	(298)		[60/4][99/10]
$C_{16}H_{32}$	cyclohexadecane				[295-65-8]
		81.8±0.4			[57/1][70/1]
$C_{16}H_{32}O_2$	hexadecanoic acid (palmitic acid)				[57-10-3]
	(294–316)	154		TPTD	[01/15]
	(320–333)	154.4±4.2	(326)	ME	[61/1][70/1]
					[87/4]
$C_{16}H_{33}NO$	hexadecanamide				[629-54-9]
	(364–378)	181.6±1.3	(371)	ME	[59/3][87/4]
$C_{16}H_{34}$	hexadecane				[544-76-3]
		135.1	(298)	B	[72/1]
		134.9	(291)	B	[63/6]
	(288–290)	83.4±8		ME	[49/1]
$C_{16}H_{34}O$	1-hexadecanol				[36653-82-4]
	(323–335)	109.4 (liq)	(329)		[87/4]
	(308–320)	167.4±2.1	(314)	ME	[65/6][87/4]
		169.5±2.1	(298)		[65/6]
$C_{17}H_{10}O$	benzanthrone				[82-05-3]
	(389–409)	121.6±0.6	(399)	ME	[99/11]
		126.6±0.6	(298)		[99/11]
		129.7±2.1	(298)	QR	[99/24]
	(353–388)	119.7±5.4	(370)	ME	[84/12]
		124.6±6.0	(298)		[84/12]
		114.2±0.8		QR	[79/28]
		115.5	(398)		[52/3][60/1]
$C_{17}H_{12}$	benzo[a]fluorene				[238-84-6]
	(313–453)	105.4	(383)	GS	[95/7]
$C_{17}H_{12}$	benzo[b]fluorene				[243-17-4]
	(344–398)	119.3±1.3	(371)	ME	[98/3]
	(313–453)	111.2	(383)	GS	[95/7]
$C_{17}H_{13}N$	N-methyl-2,3,5,6-dibenzazalene				[6626-64-8]
		131.8±1.3			[66/3][70/1]
$C_{17}H_{14}N_2O_2$	1-[(2-methoxyphenyl)azo]-2-hydroxynaphthalene				[1229-55-6]
	(374–388)	142.4±2.2	(381)		[84/35]
$C_{17}H_{16}F_4N_4O_2$	N-ethyl-N-(2,2,3,3-tetrafluoropropyl)-4-[4-nitrophenyl]azo-benzenamine				[91488-84-5]
		103.0		UV	[84/39]
$C_{17}H_{16}F_4N_4O_3$	2-[[4-[(4-nitrophenyl)azo]phenyl](2,2,3,3-tetrafluoropropyl)amino]-ethanol				[1543-74-4]
		103.0		UV	[84/39]
$C_{17}H_{16}OS$	tetrahydro-2,6-diphenyl-4*H*-thiopyran-4-one				[37014-01-0]
		136.0	(375)	ME	[72/15]
		144±3	(298)	ME	[72/15][77/1]
$C_{17}H_{16}O_4$	diphenylmethylene diacetate				[54334-63-3]
	(348–388)	122.1±1.2	(368)	GS	[96/14]
$C_{17}H_{17}N_5O_2$	4-nitro-4′-(N-2-cyanoethyl-N-ethylamino)azobenzene				
		147.3			[84/40]
$C_{17}H_{18}O_3$	4-(*tert*-butylphenyl)salicylate				[87-18-3]
	(293–336)	137.4	(308)	UV	[87/4][60/24]
$C_{17}H_{18}O_4$	2-hydroxy-4,4′-diethoxybenzophenone				[101595-31-7]
		134.9	(298)	B	[99/22]
$C_{17}H_{20}O_2$	diethoxydiphenylmethane				[6397-77-9]
		97.1±1.1	(298)		[98/26]
$C_{17}H_{21}NO_4$	cocaine				[50-36-2]
		127.2		GS	[96/19]
	(294–314)	112.3±2.8	(304)	GS	[84/27]
$C_{17}H_{32}O$	cycloheptadecanone				[3661-77-6]
		75.7			[38/1][60/1]
					[70/1]
$C_{17}H_{34}$	cycloheptadecane				[295-97-6]
		66.1±0.6			[57/1][70/1]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{17}H_{34}O_2$	methyl hexadecanoate				[112-39-0]
	(291–301)	152.3±2	(296)	ME	[65/6][87/4]
$C_{17}H_{34}O_2$	heptadecanoic acid (margaric acid)				[506-12-7]
	(291–316)	168		TPTD	[01/15]
$C_{17}H_{35}NO$	N-methyl hexadecanamide				[7388-58-1]
	(345–355)	144.5±0.8	(350)	GS	[59/4][87/4]
$C_{17}H_{36}$	heptadecane				[629-78-7]
		125.1	(298)		[72/1]
	(288–293)	131.3±13	(290)	ME	[49/1][60/1]
$C_{17}H_{36}O$	1-heptadecanol				[1454-85-9]
		169.5±2.2			[65/6][70/1]
$C_{18}H_{10}$	benzo[3,4]cyclobuta[1,2-a]biphenylene ([3]phenylene)				[65513-20-4]
		115.1±0.8			[00/18]
$C_{18}H_{10}BrNO_3$	2(4-bromo-3-hydroxy-2-quinolinyl)-1*H*-indene-1,3(2*H*)-dione				
	(C. I. Disperse Yellow 64)				[10319-14-9]
	(483–523)	130.6	(498)		[87/4]
$C_{18}H_{10}Cl_2O_2S_2$	6-chloro-2-(6-chloro-4-methyl-3-oxobenzo[b]thien-2(3*H*)-ylidine)-4-methyl-benzo[b]thiophen-3(2*H*)-one (C.I. Vat Red 1)				[2379-74-0]
	(519–634)	148	(577)	GS	[86/14]
$C_{18}H_{10}Cl_2O_2S_2$	5-chloro-2-(5-chloro-7-methyl-3-oxobenzo[b]thien-2(3*H*)-ylidine)-7-methyl-benzo[b]thiophen-3(2*H*)-one (C.I. Vat Violet 2)				[5462-29-3]
	(519–634)	93	(577)	GS	[86/14]
$C_{18}H_{10}O_2$	1,2-benzanthra-9,10-quinone				[2498-66-0]
		82.8±4.0			[56/5][70/1]
$C_{18}H_{10}O_2$	5,12-tetracenequinone				[1090-13-7]
		108.8±5.0			[56/5][70/1]
$C_{18}H_{10}O_4$	6,11-dihydroxy-5,12-naphthacenedione				[1785-52-0]
	(426–446)	144.2±1.4	(436)	ME	[98/3]
$C_{18}H_{11}NO_3$	2-(3-hydroxy-2-quinolinylidene)-indeno-1,3-dione (Disperse Yellow 54)				[7576-65-0]
		125.2±0.4		LE	[98/38]
	(483–513)	139	(498)		[73/6]
$C_{18}H_{12}$	benz[a]anthracene (1,2-benzanthracene, tetraphene)				[56-55-3]
	(313–453)	115.5	(383)	GS	[95/7]
	(330–390)	113.4	(345)	ME	[87/4][74/30]
		104±2	(351)	TE	[83/27]
	(283–323)	U 81.3±2.5	(303)	GS	[83/11]
	(373–396)	123.3±3	(298)		[80/1]
	(357–454)	120.5	(405)	ME	[67/2]
	(377–403)	104.6±4.2	(390)	ME	[64/3][87/4]
	(333–393)	119.7	(363)		[58/1]
		U 109.2			[51/2][60/1]
$C_{18}H_{12}$	triphenylene				[217-59-4]
	(313–453)	114.5	(383)	GS	[95/7]
	(381–406)	126.5±4	(298)	TE,ME	[80/1]
	(363–468)	107.6	(378)		[87/4]
	(338–398)	118±4	(368)		[58/1][70/1]
		107.1	(425)	ME	[67/2]
$C_{18}H_{12}$	naphthacene (tetracene)				[92-24-0]
	(386–472)	126.1±9.0	(429)	ME	[98/3]
	(313–453)	126.5	(383)	GS	[95/7]
	(419–446)	143.7±0.5	(298)	TE,M	[80/1]
		124.7±4	(422)	ME	[67/2][77/1] [70/1]
	(433–493)	128.8	(473)	HSA	[65/15]
	(433–483)	132.6	(468)	HSA	[64/10]
		117.2	(459)	ME	[52/3][60/1]
		U92.0	(384)	ME	[51/12]
		124.3			[51/2][60/1]
$C_{18}H_{12}$	benzo[c]phenanthrene (3,4-benzophenanthrene)				[195-19-7]
		106.3±4.2			[51/2][70/1] [67/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula	Compound	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)		CAS registry number
Polymorph	Temperature range (K)			Method	Reference
$C_{18}H_{12}$	chrysene				[218-01-9]
	(313–453)	118.8	(383)	GS	[95/7]
		131±4	(298)	TE,ME	[80/1]
		117.6±4	(400)	ME	[67/2][70/1]
	(353–418)	121.4	(385)		[58/1]
		117.6			[51/2][60/1]
$C_{18}H_{12}N_2$	2,2′-biquinoline				[119-91-5]
	(393–411)	129.5±0.8	(402)	ME	[97/14]
		134.7±1.3	(298)		[97/14]
		96.6±0.9			[85/6]
$C_{18}H_{12}O$	2-phenylindeno[2,1-b]pyran				[10435-67-3]
	(394–424)	132.8	(409)		[87/4][66/3]
$C_{18}H_{14}$	5,12-dihydrotetracene				[959-02-4]
	(338–398)	115.9±4	(368)		[58/1][70/1]
		120.5			[51/2][60/1]
$C_{18}H_{14}$	diphenylfulvene				[2175-90-8]
		104.6±8.3		E	[57/2][70/1]
$C_{18}H_{14}$	*o*-terphenyl				[84-15-1]
		101.2±0.5	(298)	B	[97/15]
		97±1	(298)	B	[71/8]
$C_{18}H_{14}$	*m*-terphenyl				[92-06-8]
	(329–353)	115.5±1.6	(341)	T	[97/15]
		118.1±1.6	(298)		[97/15]
		120±1	(298)		[71/8]
	(313–363)	119	(338)		[58/1]
$C_{18}H_{14}$	*p*-terphenyl				[92-94-4]
	(353–383)	116.2±2.4	(368)	T	[97/15]
		120.4±2.4	(298)		[97/15]
		113±2	(298)	B	[71/8]
		118.4	(397)	ME	[67/2]
	(333–393)	120.6	(363)		[58/1]
$C_{18}H_{14}O$	2,6-diphenylphenol				[92-69-3]
	(334–363)	116.1±1.1	(348)	T	[98/9]
		119.1±1.1	(298)		[98/9]
$C_{18}H_{15}N$	triphenylamine				[603-34-9]
	(322–373)	87.9±1.3	(337)		[78/2][87/4]
$C_{18}H_{15}NO_2$	9-diacetylaminoanthracene				[3808-37-5]
		106.4		RG	[58/4]
$C_{18}H_{15}OP$	triphenylphosphine oxide				[791-28-6]
	(385–408)	131±2	(399)	ME,TE	[89/28]
		66±6	(298)	B	[78/11]
$C_{18}H_{15}P$	triphenylphosphine				[603-35-0]
		113.2±3.0	(298)		[88/21]
		109.2±1.1	(350)		[84/13]
		96.2±8.4	(298)		[82/20][60/9]
$C_{18}H_{15}PO_4$	triphenyl phosphate				[115-86-6]
		114.4±2.6	(298)	B	[89/23]
$C_{18}H_{15}PS$	triphenylphosphine sulfide				[3878-45-3]
	(388–419)	136.8±6.1	(403)	HSA	[96/9]
		142.8±6.8	(298)		[96/9]
$C_{18}H_{16}N_4$	dihydrodibenzotetra-aza-annulene				[22119-35-3]
	(443–583)	81.5±6.4	(513)	T	[83/29]
$C_{18}H_{18}$	2,4,5,7-tetramethylphenanthrene				[7396-38-5]
		114.2±1.7		ME	[65/5][70/1]
$C_{18}H_{18}$	3,4,5,6-tetramethylphenanthrene				[7343-06-8]
		133.5±3.8		ME	[65/5][70/1]
$C_{18}H_{18}$	9-butylanthracene				[1498-69-7]
	(293–313)	108.1	(303)		[87/4][64/15]
$C_{18}H_{18}O_2$	3-diphenylmethyl-2,4-pentanedione				[19672-37-8]
	(348–383)	112.8±0.4	(366)	T	[95/2]
$C_{18}H_{18}O_4$	2,2′-diphenyl-bi-(1,3-dioxolan-2-yl)				[25062-95-7]
	(320–362)	132.8±2.1	(341)	T	[95/13]
$C_{18}H_{18}O_{12}$	hexamethoxycarbonylbenzene				[6237-59-8]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(403–422)	140.7±1.1	(413)	ME	[95/6]
		154.3±1.2	(298)		[95/6]
$C_{18}H_{20}$	[3.3]para-cyclophane				[2913-24-8]
	(322–343)	97.8±0.8	(332)	ME	[69/6][77/1]
					[87/4]
	(322–343)	103.3±1.0	(298)	ME	[69/6][77/1]
$C_{18}H_{20}O_4$	2-hydroxy-4-butoxy-4′-methoxybenzophenone				[39716-92-2]
		126.3		B	[99/22]
$C_{18}H_{21}N$	N-benzyl-pivalophenone imine				
		109.7±3.3	(298)	B	[97/18]
$C_{18}H_{22}$	2,3-dimethyl-2,3-diphenylbutane				[1889-67-4]
	(293–348)	96.7±0.8	(320)		[83/16]
$C_{18}H_{22}N_2O_2$	2,2′,4,4′,6,6′-hexamethylazobenzene-N,N-dioxide				[100046-00-2]
		107±12	(298)	ME	[93/3]
$C_{18}H_{22}N_4$	2,3-dimethyl-2,3-*bis*(phenylazo)butane				[133930-64-0]
		113.8±1.8		B	[93/14]
$C_{18}H_{22}O_2$	(*dl*)-2,3-dimethoxy-2,3-diphenylbutane				[41047-48-7]
	(322–355)	114.2±6.3	(339)		[90/17]
$C_{18}H_{22}O_4$	1,2-diphenyl-1,1,2,2-tetramethoxyethane				[39787-30-9]
	(351–399)	77.6±0.6	(375)	T	[95/13]
$C_{18}H_{24}$	1,2,3,4,4a,7,8,9,10,11,12,12a-dodecahydrochrysene				[1610-22-6]
	(293–313)	115.4	(303)		[87/4][64/15]
$C_{18}H_{29}NO$	2,4,6-tri-*tert*-butylnitrosobenzene				[24973-59-9]
		91.0±3.2	(298)	C	[95/20]
$C_{18}H_{29}NO_2$	2,4,6-tri-*tert*-butylnitrosobenzene				[4074-25-3]
		94.8±1.0	(351)	GS	[00/25]
		96.4±1.0	(298)	GS	[00/25]
		81.4±1.8	(298)	C	[95/20]
$C_{18}H_{30}$	1,3,5-tri-*tert*-butylbenzene				[1460-02-2]
	(298–341)	79.9±0.3	(319)	T	[98/14]
		81.2±0.3	(298)		[98/14]
	(273–315)	79.7±0.4	(294)	ME	[65/6][87/4]
$C_{18}H_{30}$	hexaethylbenzene				[604-88-6]
	(327–352)	95.0±4.0	(340)	HSA	[86/1]
		U 41.3±0.9		DSC	[84/2]
$C_{18}H_{30}$	perhydrochrysene				[2090-14-4]
	(273–353)	82.3 (liq)	(288)		[87/4][64/15]
$C_{18}H_{30}$	1-phenyldodecane				[123-01-3]
		135.1	(298)		[00/10]
$C_{18}H_{30}O$	2,4,6-tri-*tert*-butylphenol				[732-26-3]
		87.5±0.4	(298)	GS	[99/17]
	(295–339)	85.6±0.4	(317)	ME	[65/6][87/4]
	(415–551)	63.2 (liq)	(430)		[87/4]
		U128.1	(298)	C	[71/24][99/17]
	(292–313)	83.9	(302)		[60/14]
		84.2±0.5	(298)	V	[60/14][99/17]
$C_{18}H_{30}O_4$	4-diacetylbenzene diethyl ketal				[47189-08-2]
	(306–327)	112.5	(316.5)		[78/9][87/4]
$C_{18}H_{31}N$	2,4,6-tri-*tert*-butylaniline				[961-38-6]
		92.5±1.1	(298)	GS	[00/6]
$C_{18}H_{34}O$	cyclooctadecanone				[6907-37-5]
		77.4			[38/1][60/1]
$C_{18}H_{36}O_2$	octadecanoic acid (stearic acid)				[57-11-4]
	(296–319)	158		TPTD	[01/15]
	(331–340)	166.5±4.2	(336)	ME	[61/1][70/1]
$C_{18}H_{36}O_2$	ethyl palmitate				[628-97-7]
	(286–294)	150.8	(290)	ME	[87/4][67/18]
$C_{18}H_{37}NO$	octadecanamide				[124-26-5]
	(367–379)	195.8±4.2	(373)	ME	[59/3][87/4]
$C_{18}H_{38}$	1,1,2,2-tetra-*tert*-butylethane				[62850-21-9]
	(303–366)	71.9	(341)		[84/15]
		74.3	(298)		[84/15]
$C_{18}H_{38}$	*n*-octadecane				[593-45-3]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		152.7	(298)	C	[72/1]
	(288–298)	153.0±5	(293)	ME	[49/1][60/1] [70/1]
$C_{18}H_{38}O$	1-octadecanol				[112-92-5]
	(318–329)	187.4±1.3	(324)	ME	[65/6][87/4]
		191.2±1.3	(298)		[65/6]
$C_{19}H_{15}N$	N-phenyl benzophenone imine				[574-45-8]
	(348–387)	115.5±1.8	(367)	T	[97/18]
		119.7±1.8	(298)		[97/18]
$C_{19}H_{15}N_3$	triphenylazidomethane				[14309-25-2]
	(335–363)	120.6	(349)		[87/4][74/31]
$C_{19}H_{16}$	triphenylmethane				[519-73-3]
		109.1	(298)	GS	[99/25]
		112.0	(298)	CGC–DSC	[98/5]
	(343–363)	113.9	(353)	EM	[89/1]
	(303–358)	106.8	(330)	GS	[86/8]
	(325–349)	100±0.4	(339)	V	[59/2][70/1]
		100.7	(298)		[86/17][36/2]
		105±0.8			[74/31]
$C_{19}H_{16}F_8N_4O_2$	N-ethyl-4-[(4-nitrophenyl)azo]-N-(2,2,3,3,4,4,5,5-octafluoropentyl)-benzenamine				[91488-85-6]
		112.6		UV	[84/39]
$C_{19}H_{16}O$	triphenylmethanol				[76-84-6]
		121.8±1.7	(298)	GS	[98/22]
	(353–373)	122	(363)		[87/4]
$C_{19}H_{16}O_2$	2-fluorenyl-2-methyl-1,3-cyclopentandione				[160731-89-5]
	(353–388)	122.3±1.6	(371)	T	[95/2]
$C_{19}H_{17}NO_2$	1-piperidinoanthraquinone				[4946-83-2]
	(383–392)	U 18.3 (387.5)			[87/4]
$C_{19}H_{18}O_2$	2-diphenylmethyl-2-methyl-1,3-cyclopentandione				[160731-87-3]
	(355–393)	120.2±1.1	(374)	T	[95/2]
$C_{19}H_{20}O_2$	3-diphenylmethyl-3-methyl-2,4-pentandione				[137932-36-6]
		114.4±0.6	(298)	T,B	[95/2]
$C_{19}H_{21}NO$	(±)1,2-diphenyl-2-N-piperidinyl-1-ethanone				[127529-16-2]
		147.1±1		B	[94/11]
$C_{19}H_{34}$	tricyclohexylmethane				[1610-24-8]
	(301–321)	117.4	(311)		[87/4][64/15]
$C_{19}H_{36}O$	cyclononadecanone				
		82.4			[38/1][60/1]
$C_{19}H_{38}O_2$	methyl octadecanoate				[112-61-8]
	(299–310)	158.2±2.5	(304)		[65/6][87/4]
$C_{19}H_{38}O_2$	nonadecanoic acid				[646-30-0]
		198.7±5			[68/2][70/1]
$C_{19}H_{40}$	*n*-nonadecane				[629-92-5]
		143.6	(298)	C	[72/1]
	(288–303)	136.6	(296)		[64/15]
$C_{20}H_{12}$	perylene				[198-55-0]
	(391–424)	132.6±3.6	(408)	ME	[98/3]
	(313–453)	123.2	(383)	GS	[95/7]
	(443–518)	145.2±2.5	(298)	C,ME	[73/7]
		125.5±4.2	(298)	ME	[67/2][70/1]
	(383–453)	139	(418)		[58/1][87/4]
		129.6±2.1	(415)	ME	[52/3]
		121.3	(370)	ME	[51/12]
$C_{20}H_{12}$	benzo[b]fluoranthene				[205-99-2]
	(313–453)	119.2	(383)	GS	[95/7]
$C_{20}H_{12}$	benzo[k]fluoranthene				[207-08-9]
	(363–430)	130	(378)		[87/4]
		120±10		TE	[83/28]
$C_{20}H_{12}$	benzo[a]pyrene				[50-32-8]
	(313–453)	122.5	(383)	GS	[95/7]
	(358–431)	118.3	(373)	ME	[87/4][74/30]
$C_{20}H_{12}$	benzo[e]pyrene				[192-97-2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(313–453)	117.9	(383)	GS	[95/7]
	(359–423)	119.1	(373)	ME	[87/4][74/30]
$C_{20}H_{12}BrNO_4$	1-amino-2-(4-bromophenoxy)-4-hydroxy-9,10-anthraquinone				[59722-76-8]
	(373–453)	163.6	(413)		[78/35]
$C_{20}H_{13}NO_4$	1-amino-4-hydroxy-2-phenoxy-9,10-anthraquinone (Disperse Red 60)				[17418-58-5]
	(359–366)	152.5	(362.5)		[87/4]
		141.8			[84/40]
	(373–453)	103.8	(413)		[78/35]
$C_{20}H_{14}$	9,10-dihydro-9,10-(1′,2′) benzoanthracene (tryptycene)				[477-75-8]
		104.6±12.6			[73/13][77/1]
$C_{20}H_{14}$	9-phenylanthracene				[602-55-1]
	(313–453)	118.7	(383)	GS	[95/7]
	(352–395)	119.7		TE	[74/33]
	(353–426)	115.3	(368)		[58/4]
$C_{20}H_{14}$	binaphthalene				[11068-27-2]
	(313–453)	138.3	(383)	GS	[95/7]
$C_{20}H_{14}N_2O_2$	1-anilino-4-amino-9,19-anthraquinone				[4395-65-7]
		138.6			[84/40]
	(373–453)	135.1	(413)	GS	[77/20][78/35]
$C_{20}H_{14}N_2O_4$	1-amino-2-(4-aminophenoxy)-4-hydroxy-9,10-anthraquinone				[56405-27-7]
	(373–453)	U50.2	(413)		[78/35]
$C_{20}H_{14}O_4$	resorcinol dibenzoate				[94-01-9]
	(323–399)	165.8	(338)	UV	[87/4][60/24]
$C_{20}H_{15}F_3$	1,1,1-trifluoro-2,2,2-triphenylethane				[68643-31-2]
		112.3±1.0	(298)		[97/34]
$C_{20}H_{16}$	1′,9-dimethyl-1,2-benzanthracene				[313-74-6]
		112.5±3.3		ME	[65/5][70/1]
$C_{20}H_{16}$	3′,6-dimethyl-1,2-benzanthracene				[316-51-8]
		112.5±3.3		ME	[65/5][70/1]
$C_{20}H_{16}$	7,12-dimethylbenz[a]anthracene				[57-97-6]
	(379–390)	135			[87/4][64/3]
	(379–396)	107.8 (vap)			[87/4][64/3]
$C_{20}H_{16}$	5,6-dimethylchrysene				[3697-27-6]
		130±1.3			[66/3][70/1]
		134±1.3			[66/3][70/1]
	(379–408)	135±2.4	(394)	ME	[64/3]
$C_{20}H_{16}O_4S_2$	6-ethoxy-2-(6-ethoxy-3-oxobenzo[b]thien-2(3*H*)-ylidene)benzo[b]-thiophen-3(2H)-one (C.I. Vat Orange 5)				[3263-31-8]
	(519–634)	65	(577)	GS	[86/14]
$C_{20}H_{17}N_3O_2$	N-(benzoyl)-4-(2-hydroxy-4-methylphenylazo)benzenamine (Disperse Yellow 50)				
	(464–484)	69	(474)	GS	[89/29]
$C_{20}H_{18}$	1,1,1-triphenylethane				[15271-39-6]
		108.6	(298)		[99/25]
$C_{20}H_{18}O_6$	9-fluorenyl-*tris*(methoxycarbonyl)methane				[170464-52-5]
		132.6	(298)	GS	[95/29]
$C_{20}H_{20}$	pagodane (undecacyclo[$9.9.0.0^{1,5}.0^{2,12}.0^{2,18}.0^{3,7}.0^{6,10}.0^{8,12}.0^{11,15}.0^{13,17}.0^{16,20}$]eicosane)				[89683-62-5]
	(418–473)	90.2±2.3	(446)	T	[94/9]
$C_{20}H_{20}O_2$	2-diphenylmethyl-2-ethyl-1,3-cyclopentanedione				[160731-88-4]
	(342–377)	122.8±0.7	(360)	T	[95/2]
$C_{20}H_{20}O_6$	1,1,1-*tris*(methoxycarbonyl)-2,2-diphenylethane				[170464-52-5]
		136.0	(298)	GS	[95/29]
$C_{20}H_{21}ClN_6O_2$	N-2-[(2-chloro-6-cyano-4-nitrophenly)azo]-5-(diethylamino)phenyl-propanamide (Disperse Blue 165)				
	(464–484)	90.7	(474)	GS	[89/29]
$C_{20}H_{22}O_2$	3-diphenylmethyl-3-ethyl-2,4-pentanedione				[160731-83-9]
	(349–387)	122.3±1.5	(368)	T	[95/2]
$C_{20}H_{24}O_6$	dibenzo-18-crown-6				[14187-32-7]
		178.8±6.9	(298)	CGC–DSC	[00/11]
$C_{20}H_{30}$	hexacyclopropylethane				[26902-55-6]
		109.0±2.1			[84/32]
$C_{20}H_{38}O_4$	eicosanedioic acid				[2424-92-2]
	(380–395)	165.7±3.3	(388)	ME	[60/4][87/4]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		170.0±3.3	(298)		[60/4][99/10]
$C_{20}H_{40}O_2$	eicosanoic acid				[506-30-9]
	(337–346)	199.6±7.5	(342)	ME	[61/1][70/1][87/4]
$C_{20}H_{40}O_2$	ethyl stearate				[111-61-5]
	(297–306)	161.4	(301.5)	ME	[87/4][67/18]
$C_{20}H_{42}$	*n*-eicosane				[112-95-8]
		179.5±2.0	(367)	B	[94/8]
		U152.3±5.0	(298)	B	[91/1]
		170.4	(298)	C	[72/1]
$C_{20}H_{42}O$	1-eicosanol				[629-96-9]
	(327–341)	218±3.8	(332)	ME	[65/6][87/4]
		223±3.8	(298)		[65/6]
$C_{21}H_6N_{12}O_{18}$	2,4,6-*tris*(2,4,6-trinitrophenyl)-1,3,5-triazine				[49753-54-0]
	(479–551)	167.9	(494)		[87/4]
$C_{21}H_{14}N_2O_3$	2-phenyl-3-benzoylquinoxaline-1,4-dioxide				[13494-38-7]
		167.4±4.0	(298)	ME	[97/25]
$C_{21}H_{14}N_2O_3$	1,4-diamino-2-benzoyl-9,10-anthraquinone				
		168.5			[84/40]
$C_{21}H_{15}BrN_2O_2$	1-amino-2-bromo-4-[(4-methylphenyl)amino]-9,10-anthraquinone				[128-83-6]
	(418–438)	167.0±6.0	(428)		[84/35]
$C_{21}H_{15}NO_3$	2-hydroxy-4-[(4-methylphenyl)amino]-9,10-anthraquinone				
	(349–378)	121.0±7.6	(363)		[84/35]
	[Note: Compound is listed as the 2-hydroxy-derivative in the paper; however, it is listed as the 1-hydroxy-derivative in *Chem. Abstracts*]				
$C_{21}H_{16}$	3-methylcholanthrene				[56-49-5]
	(401–425)	127.2±2.4	(413)		[87/4][64/3]
$C_{21}H_{16}N_2O_2$	1-anilino-4-(N-methylamino)-9,10-anthraquinone				
		136.9			[84/40]
$C_{21}H_{17}N_3O_3$	(5-cyano-3,4-diphenyl-6-oxo-1,6-dihydropyridazin-1-yl)acetate				[82232-20-0]
	(396–414)	131.9±9.3	(405)	ME	[82/24]
$C_{21}H_{18}F_2$	1,1-difluoro-3,3,3-triphenylpropane				[193472-73-0]
		113.2±1.7	(298)		[97/34]
$C_{21}H_{19}F$	1-fluoro-3,3,3-triphenylpropane				[193472-69-4]
		129.3±0.6	(298)		[97/34]
$C_{21}H_{19}F$	2-fluoro-1,2,3-triphenylpropane				[193472-72-9]
		132.5±3.0	(298)		[97/34]
$C_{21}H_{20}Cl_2O_3$	(3-phenoxyphenyl)methyl-*cis*-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate (*cis*-permethrin)				
	(313–333)	108.8	(323)	GS,A	[86/20]
$C_{21}H_{23}NO_5$	diacetylmorphine (heroin)				[561-27-3]
	(324–339)	144.5±4.0	(331)	GS	[84/27]
$C_{21}H_{24}O_2$	3-diphenylmethyl-3-propyl-2,4-pentanedione				[160731-84-0]
		124.7	(298)	T,B	[95/2]
$C_{21}H_{26}$	[1,8]-para-cyclophane				[6169-94-4]
	(354–376)	105±1.3	(365)	ME	[69/6][77/1]
	(354–376)	110.9±2.1	(298)	ME	[69/6][77/1]
$C_{21}H_{26}O_4$	2-hydroxy-4,4′-dibutoxybenzophenone				[6127-74-8]
		148.0		B	[99/22]
$C_{21}H_{30}O$	1,1-diadamantyl ketone				[38256-01-8]
	(362–379)	109.0±1.8	(298)	ME	[92/2]
$C_{21}H_{42}O_2$	methyl eicosanoate				[1120-28-1]
	(311–318)	190.8±10	(314)	ME	[65/6][87/4]
$C_{21}H_{42}O_2$	ethyl nonadecanoate				[18281-04-4]
	(302–308)	149.7	(305)	ME	[87/4][67/18]
$C_{21}H_{44}$	heneicosane				[629-94-7]
		141.8±10	(298)	B	[91/1]
$C_{22}H_{10}O_2$	anthanthrone (dibenzochrysene-6,12-dione)				[641-13-4]
	(450–550)	152.2	(465)		[87/4]
$C_{22}H_{12}$	anthranthrene (dibenzo[def,mno]chrysene)				[191-26-4]
		135±5	(479)	ME	[52/3]
$C_{22}H_{12}$	benzo[ghi]perylene				[191-24-2]
	(313–453)	129.9	(383)	GS	[95/7]
	(389–468)	127.8	(404)	ME	[87/4][74/30]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(450–510)	135.1	(465)		[87/4]
	(454–502)	125.5	(478)	ME	[67/2]
$C_{22}H_{12}O_2$	6,13-pentacenequinone				[3029-32-1]
		116.3±5.9	(298)		[56/5][70/1]
$C_{22}H_{14}$	1,2:6,7-dibenzophenanthrene (benzo[b]chrysene)				[214-17-5]
		136.4	(417)	ME	[67/2]
	(398–513)	136.9	(413)		[87/4]
$C_{22}H_{14}$	pentacene				[135-48-8]
	(443–483)	156.9±13.6	(463)	ME	[98/3]
	(494–526)	154±5	(512)	ME,TE	[80/1]
	(495–530)	184±10	(298)	ME,TE	[80/1]
	(455–555)	157.7	(505)	ME	[67/2]
$C_{22}H_{14}$	picene				[213-46-7]
	(425–488)	140.1	(456)	ME	[67/2]
	(409–527)	140.7	(424)		[87/4]
$C_{22}H_{14}$	1,2:3,4-dibenzanthracene (benzo[b]triphenylene)				[215-58-7]
	(313–453)	135	(383)	GS	[95/7]
	(425–452)	159±6	(298)	TE,ME	[80/1]
$C_{22}H_{14}$	1,2:5,6-dibenzanthracene (dibenz[a,h]anthracene)				[53-70-3]
		134.1		GS	[95/7]
	(436–462)	162±6	(298)	TE,ME	[80/1]
	(417–502)	141.8	(457)	ME	[67/2]
$C_{22}H_{16}O$	3,8-dimethylnaphtho[3,2,1-kl]xanthene (3,8-dimethylceroxene)				
	(373–433)	138.2	(388)		[87/4][59/14]
$C_{22}H_{17}NO_3S$	2-(3-methyoxypropyl)-1*H*-xantheno[2,2,9-def]isoquinoline-1,3(2*H*)-dione				[36245-88-2]
	(605–647)	111.8	(620)		[87/4]
	(647–685)	150.8	(662)		[87/4]
$C_{22}H_{18}N_2O_2$	1-amino-2-methyl-4-[(4-methylphenyl)amino]-9,10-anthraquinone				[116-77-8]
	(418–435)	142.2±2.3	(426)		[84/35]
$C_{22}H_{18}N_2O_2$	1-(N-methylamino)-4-[(3-methylphenyl)amino]-9,10-anthraquinone				[6408-50-8]
	(418–434)	129.0±4.7	(426)		[84/35]
$C_{22}H_{18}N_2O_2$	1-(N-methylamino)-4-[(4-methylphenyl)amino]-9,10-anthraquinone				[128-85-8]
	(403–426)	153.9±3.9	(414)		[84/35]
$C_{22}H_{20}N_2O_4$	N,N′-*bis*(2-methoxyphenyl)terephthalamide				[36360-34-6]
	(456–470)	197.5±4.2		ME	[73/21][77/1]
$C_{22}H_{20}N_2O_4$	N,N′-*bis*(3-methoxyphenyl)terephthalamide				[6957-81-9]
	(456–470)	209.2±8.4		ME	[73/21][77/1]
$C_{22}H_{20}N_2O_4$	N,N′-*bis*(4-methoxyphenyl)terephthalamide				[7144-15-2]
		227.6±8.4		ME	[73/21][77/1]
$C_{22}H_{21}F$	2-benzyl-2-fluoro-1,3-diphenylpropane				[193472-71-8]
		127.5±0.8	(298)		[97/34]
$C_{22}H_{22}$	1,1,1-triphenylbutane				[43044-69-5]
		114.3	(298)		[99/25]
$C_{22}H_{24}N_2O_2$	N,N′-ethylene*bis*(3-amino-1-phenylbut-2-en-1-one)				[16087-30-2]
	(407–426)	192.9±5.3	(415)	ME	[95/12]
		198.8±5.3	(298)		[95/12]
$C_{22}H_{26}$	1,1′-diphenyl-1,1′-bicyclopentyl				[59358-70-2]
		141.4		E,B	[83/16]
$C_{22}H_{26}N_2O_2$	1,4-*bis*(N-butylamino)-9,10-anthraquinone				[17354-14-2]
	(389–398)	116.4±2.3	(394)		[84/35]
$C_{22}H_{26}N_2O_2$	1,4-*bis*(N-isobutylamino)-9,10-anthraquinone				[10720-45-7]
	(368–388)	96.4±2.1	(378)		[84/35]
$C_{22}H_{28}N_2O_2$	(4R,4′R,5R,5′R)-5,5-diphenyl-3,3′,4,4′-tetramethyl-2,2′-bioxazolidine				[145513-29-7]
	(349–358)	130.8±0.8	(356)	ME	[95/19]
$C_{22}H_{28}N_2O_2$	(2R, 3R, 6R, 7R)-2,6-diphenyl-3,4,7,8-tetramethyl-*cis*-perhydro-[1,4]-oxazino-[3,2-b]-[1,4]-oxazine				[145438-85-3]
	(353–364)	116.6±1.0	(358)	ME	[95/19]
$C_{22}H_{28}N_2O_2$	(2R, 3S, 6R, 7S)-2,6-diphenyl-3,4,7,8-tetramethyl-*cis*-perhydro-[1,4]-oxazino-[3,2-b]-[1,4]-oxazine				[145438-85-3]
	(356–364)	123.1±1.6	(358)	ME	[95/19]
$C_{22}H_{28}O$	2,4,6-triisopropylbenzophenone				[33574-11-7]
	(353–364)	116±7	(298)	C	[82/10]
$C_{22}H_{28}O$	3′,5′-diisopropyl-4,4-dimethyl-3-phenyl-1,2-benzocyclobuten-3-ol				[33574-16-2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(354–364)	117.9	(298)	C	[82/10]
$C_{22}H_{38}$	*meso* 3,4-di(1-cyclohexen-1-yl)-2,2,5,5-tetramethylhexane				[62678-54-0]
	(347–404)	117.2±2.4	(376)	T	[93/6]
$C_{22}H_{31}NO_4$	N,N-*bis*(3-phenoxy-2-hydroxypropyl)butyl amine				[23257-62-7]
	(363–411)	114.3	(378)		[87/4]
		146.0±4.2			[76/19]
$C_{22}H_{42}$	*meso*-(E, E)-5,6-di-*tert*-butyl-2,2,9,9-tetramethyl-3,7-decadiene				
	(297–353)	110.0±1.7	(325)	T	[95/1]
$C_{22}H_{42}$	(*dl*)-(E, E)-5,6-di-*tert*-butyl-2,2,9,9-tetramethyl-3,7-decadiene				
	(297–346)	74.4±1.7	(307)	T	[95/1]
$C_{22}H_{44}O_2$	ethyl eicosanoate				[18281-05-5]
	(307–313)	171.5	(310)	ME	[87/4][67/18]
$C_{22}H_{46}O$	1-docosanol				[661-19-8]
	(335–341)	206.7±10	(330)	ME	[65/6][87/4]
		238.5±10	(298)		[65/6]
$C_{22}H_{46}$	docosane				[629-97-0]
		172.6±2.0	(391)	B	[94/8]
		U 151.1±10	(298)	B	[91/1]
$C_{23}H_{24}O_6$	*tris*(ethoxycarbonyl)-9-fluorenylmethane				[170464-53-6]
		143.2	(298)	GS	[95/29]
$C_{23}H_{25}F$	1-adamantylfluorodiphenylmethane				[154393-25-6]
	(353–393)	125.9±1.3	(373)	T	[94/10]
$C_{23}H_{26}O_6$	1,1,1-*tris*(ethoxycarbonyl)-2,2-diphenylethane				
		140.1	(298)	GS	[95/29]
$C_{23}H_{36}N_2O_2$	(5α,17β)-N-(1,1-dimethylethyl)-3-oxo-4-azaandrost-1-ene-17-carboxamide (Finasteride)				[98319-26-7]
	(463–488)	143.7		TGA	[97/36]
$C_{23}H_{48}$	tricosane				[638-67-5]
		U146.8±10	(298)	B	[91/1]
$C_{24}H_{12}$	coronene				[191-07-1]
	(421–504)	133.1±5.1	(463)	ME	[98/3]
	(313–453)	143.2	(383)	GS	[95/7]
	(427–510)	135.9	(468)	ME	[87/4][74/30]
		128.4		ME	[67/2]
	(433–513)	147	(473)		[58/1]
	(476–555)	143.2	(407)	ME	[52/3]
		148.5	(407)	ME	[51/12]
$C_{24}H_{12}$	*bis*-benzo[3,4]cyclobuta[1,2-a:1′,2′-c]biphenylene ([4]phenylene)				[102234-01-5]
		131.0±4.2			[00/18]
$C_{24}H_{12}O_2$	3,4:9,10-dibenzpyrene-5,8-quinone				[3302-52-1]
		112.5±5.4			[56/5][70/1]
$C_{24}H_{14}$	dibenzo[a,e]pyrene				[192-65-4]
	(414–506)	146.4	(429)		[87/4]
	(434–526)	137.6	(480)	ME	[67/2]
$C_{24}H_{14}$	dibenzo[fg,op]naphthacene				[192-51-8]
	(430–555)	147.4	(445)		[87/4]
	(454–526)	146.9	(490)	ME	[67/2]
	(called 1,2,6,7-dibenzpyrene in paper, which we have taken to be dibenzo[fg,op]naphthacene based upon the melting point temperature reported in the paper)				
$C_{24}H_{16}N_2O_2$	2,2′-(1,4-phenylene)*bis*(5-phenyl)oxazole				[1806-34-4]
		140	(480)		[89/7]
	(600–680)	94.4	(615)		[87/4]
$C_{24}H_{18}$	1,3,5-triphenylbenzene				[612-71-5]
		150.9	(298)	CGC–DSC	[98/5]
	(364–388)	145.6±0.9	(376)	T	[97/15]
		150.3±0.9	(298)		[97/15]
		152±0.3	(298)	C,ME	[74/4]
	(410–444)	142	(425)	ME	[74/4][87/4]
	(384–400)	142.2	(422)	ME	[67/2]
		149.7±4.1	(298)	ME	[58/1][70/1]
$C_{24}H_{24}O_4$	*syn* 4,9-*bis*(methoxycarbonyl)pagodane (dimethyl undecacyclo [9.9.0.0^{1,5}.0^{2,12}.0^{2,18}.0^{3,7}.0^{6,10}.0^{8,12}.0^{11,15}.0^{13,17}.0^{16,20}]eicosane-4-*syn*, 9-*syn*-dicarboxylate)				[89702-41-0]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(393–447)	146.1±3.0	(420)	T	[94/9]
$C_{24}H_{24}O_4$	1,6-*bis*(methoxycarbonyl)dodecahedrane (dimethyl undecacyclo-[9.9.0.0^{2,9}.0^{3,7}.0^{4,20}.0^{5,18}.0^{6,16}.0^{8,15}.0^{10,14}.0^{12,19}.0^{13,17}]eicosane-1,6-dicarboxylate)				[124316-65-0]
	(395–450)	139.7±1.3	(422)	T	[94/9]
$C_{24}H_{26}N_2O_2$	1,5-dipiperidylanthraquinone				[14580-70-2]
	(408–458)	173.3	(428)		[58/1][87/4]
$C_{24}H_{28}P_2O_2$	1,4-*bis*(diphenylphosphino)butane				[7688-25-7]
		171.6	(443)	B	[89/28]
$C_{24}H_{30}$	1,1′-diphenyl-1,1′-bicyclohexyl				[59358-71-3]
		150.2		E,B	[83/16]
$C_{24}H_{30}O_4$	2,2′-diphenyl-bi-(5,5-dimethyl-1,3-dioxan-2-yl)				[167321-36-0]
	(372–420)	130.2±1.8	(396)	T	[95/13]
$C_{24}H_{32}$	[6.6]-para-cyclophane				[4384-23-0]
	(352–371)	108.8±0.8	(361)	ME	[69/6][77/1]
		115.1±2.1	(298)	ME	[69/6][77/1]
$C_{24}H_{48}O_2$	ethyl docosanoate				[5908-87-2]
	(313–318)	196.5	(315.5)	ME	[87/4][67/18]
$C_{24}H_{50}$	tetracosane				[646-31-1]
		162±12	(298)	B	[91/1]
$C_{25}H_{20}$	tetraphenylmethane				[630-76-2]
		140.0	(298)		[99/25]
	(396–466)	150.6±4	(298)	TE,ME	[72/5][77/1]
	(404–466)	143.3±1	(419)	ME	[87/4][72/5]
$C_{25}H_{36}O_2$	2,2′-methylene*bis*(6-*tert*-butyl-4-methylphenol)				[119-47-1]
	(383–403)	114.0	(393)	GS	[71/19]
$C_{25}H_{50}O_2$	ethyl tricosanoate				[18281-07-7]
	(316–322)	175.2	(319)	ME	[87/4][67/18]
$C_{25}H_{52}$	pentacosane				[629-99-2]
		173.6±10	(298)	B	[91/1]
$C_{26}H_{16}$	dibenzo[g,p]chrysene				[191-68-4]
	(408–493)	142.2	(423)		[87/4]
	(417–500)	141.8	(458)	ME	[67/2]
$C_{26}H_{18}$	9,10-diphenylanthracene				[1499-10-1]
	(313–453)	137.5	(383)	GS	[95/7]
		116.4			[58/4]
	(393–433)	143.6	(413)		[58/1][87/4]
	(481–502)	156.9±4.2	(492)	HSA	[53/2][70/1]
$C_{26}H_{18}$	9,9′-bifluorenyl				[1530-12-7]
	(383–408)	131.8±1.1	(395)	T	[94/2]
		132.6±1.1	(298)		[94/2]
$C_{26}H_{20}$	tetraphenylethene				[632-51-9]
	(343–389)	129.3±0.7	(366)	T	[99/29]
		133.4±0.7	(298)		[99/29]
$C_{26}H_{20}N_2O_2$	2,2′-(1,4-phenylene)*bis*(4-methyl-5-phenyl)oxazole				[3073-87-8]
		150	(480)		[89/7]
$C_{26}H_{22}$	1,1,2,2-tetraphenylethane				[632-50-8]
		136.8±2.9	(298)	GS	[90/12]
	(370–423)	131.4±2.1	(396)	GS	[90/12]
$C_{26}H_{22}$	1,1,1,2-tetraphenylethane				[2294-94-2]
		132.6±2.1	(298)	GS	[90/12]
	(340–400)	128.7±2.1	(370)	GS	[90/12]
		126.4±1.7	(434)	HSA	[56/1]
$C_{26}H_{26}$	pentacyclo[18.2.2.2(9,12).0(4,15).0(4,15).0(6,17)]hexacos-4,6(17),9,11,-15,20,22,23,25-nonane (triple layered [2.2]paracyclophane)				[35117-21-6]
	(299–412)	119.1±1.5		TSGC	[80/15]
		125.9±2.5	(298)	TSGC	[80/15]
$C_{26}H_{38}$	2,3-dimethyl-2,3-*bis*-(4-*tert*-butylphenyl)-butane				[5171-91-5]
		161.9		E,B	[83/16]
$C_{26}H_{54}$	hexacosane				[630-01-3]
		177.2±10	(298)	B	[91/1]
$C_{27}H_{48}$	17-(1,5-dimethylhexyl)-10,13-dimethyl-hexahydro-1*H*-cyclopenta[a]-phenanthrene (5α-cholestane)				[481-21-0]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		133.8	(298)		[00/10]
$C_{27}H_{56}$	heptacosane				[593-49-7]
		196.0±30	(298)	B	[91/1]
$C_{28}H_{14}$	phenanthro[1,10,9,8-opqra]perylene				[190-39-6]
	(580–630)	180.5±5	(605)	ME	[87/4][52/3]
$C_{28}H_{12}Cl_2N_2O_4$	C.I. Vat Blue 6				[130-20-1]
	(519–634)	199	(577)	GS	[86/14]
$C_{28}H_{14}N_2O_4$	C.I. Vat Blue 4				[81-77-6]
	(519–634)	167	(577)	GS	[86/14]
$C_{28}H_{18}$	9,9′-bianthryl				[1055-23-8]
		128.4±0.2			[70/1][58/1]
	(413–473)	127.9	(443)		[58/1][87/4]
		148.1			[51/2][60/1]
$C_{28}H_{18}$	9,9′-biphenanthryl				[20532-03-0]
		151.5			[51/2][60/1]
$C_{28}H_{22}$	9,9′-dimethyl-9,9′-bifluorenyl				[15300-82-0]
	(368–403)	118.7±1.3	(386)	T	[94/2]
		119.7±1.3	(298)		[94/2]
$C_{28}H_{30}N_4$	2,3,7,8,12,13,17,18-octamethylporphyrin				[1257-25-6]
	(593–653)	268±11		GS	[01/12]
$C_{28}H_{38}$	1,1′-diphenyl-1,1′-bicyclooctyl				[59358-73-5]
		174.5		E,B	[83/16]
$C_{28}H_{58}$	octacosane				[630-02-4]
		208.9±10	(298)	B	[91/1]
$C_{30}H_{14}O_2$	8,16-pyranthenedione (C. I. Vat Orange 9)				[128-70-1]
	(503–543)	197.7	(518)		[87/4]
		181.2	(498)	ME	[51/12]
$C_{30}H_{16}$	pyranthrene				[191-13-9]
		194.5±6.7	(595)	ME	[52/3]
$C_{30}H_{46}$	3,4-diethyl-3,4-*bis*-(4-*tert*-butylphenyl)-hexane				[85668-74-2]
		167.8		E,B	[83/16]
$C_{31}H_{15}NO_3$	C.I. Vat Green 3				[3271-76-9]
	(519–634)	155	(577)	GS	[86/14]
$C_{32}H_2Br_{16}N_8$	hexadecabromophthalocyanine				[28746-04-5]
	(438–493)	109.2±16.3	(453)	ME	[87/4][70/7]
$C_{32}H_2Cl_{16}N_8$	hexadecachlorophthalocyanine				[28888-81-5]
	(398–443)	141.0±17.6	(413)	ME	[87/4][70/7]
$C_{32}H_{14}$	ovalene				[190-26-1]
		211.7±7.9	(600)	ME	[52/3]
$C_{32}H_{18}N_8$	β-29*H*,31*H*-phthalocyanine				[574-93-6]
	(598–698)	223.8±1.3		ME	[00/30]
$C_{32}H_{50}$	2,4,5,7-tetramethyl-4,5-*bis*-(4-*tert*-butylphenyl)-octane				[85668-75-3]
		182.8		E,B	[83/16]
$C_{32}H_{50}$	4,5-diethyl-4,5-*bis*-(4-*tert*-butylphenyl)-octane				[85668-73-1]
		182.4		E,B	[83/16]
$C_{32}H_{66}$	dotriacontane				[544-85-4]
		271.1±2.5			[70/1]
$C_{34}H_{16}O_2$	dibenzanthrone (violanthrone)				[116-71-2]
	(513–548)	208.8	(528)		[87/4]
		202.9	(542)	ME	[51/12]
$C_{34}H_{16}O_2$	isodibenzanthrone (isoviolanthrone)				[128-64-3]
	(523–553)	221.1	(538)		[87/4]
		215.5	(537)	ME	[51/12]
$C_{34}H_{18}$	benzo[rst]phenanthro[1,10,9-cde]pentaphene				[190-93-2]
	(478–603)	154.1	(493)		[87/4]
$C_{34}H_{18}$	violanthrene				[81-31-2]
		223.8±8.8	(590)		[52/3][60/1]
$C_{34}H_{18}$	violanthrene A (melting point 478 °C)				
	(562–724)	195.8	(653)	ME	[67/2]
$C_{34}H_{18}$	violanthrene B (melting point 330 °C)				
	(555–625)	153.5	(590)	ME	[67/2]

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(Note: This entry is likely the original reference for benzo[rst]phenanthro-[1,10,9-cde]pentaphene listed in reference [87/4]. *Chemical Abstracts* cites [67/2] as reporting the heat of sublimation of benzo[rst]-phenanthro[1,10,9-cde]pentaphene.)				
$C_{34}H_{18}$	isoviolanthrene A (melting point 510 °C)				[4430-29-9]
	(588–724)	218	(590)	ME	[52/3][60/1]
$C_{34}H_{18}$	tetrabenzo[de,hi,op,st]pentacene				[191-79-7]
	(348–448)	118.5	(363)	ME	[87/4][67/2]
$C_{34}H_{54}$	4,5-dipropyl-4,5-*bis*-(4-*tert*-butylphenyl)-octane				[85668-72-0]
		198.3		E,B	[83/16]
$C_{38}H_{30}$	1-diphenylmethylene-4-triphenylmethyl-2,5-cyclohexadiene				[18909-18-7]
	(348–394)	114.6	(363)		[87/4]
$C_{38}H_{30}O_2$	*bis*(triphenylmethyl)peroxide				[596-30-5]
	(392–434)	158.1	(407)		[87/4]
$C_{38}H_{62}$	5,6-dibutyl-5,6-*bis*-(4-*tert*-butylphenyl)-decane				[85668-76-4]
		220.9		E,B	[83/16]
$C_{42}H_{28}$	5,6,11,12-tetraphenyltetracene				[517-51-1]
	(453–523)	160.6±4.2	(488)		[58/1][70/1]
$C_{44}H_{26}Br_4N_4$	5,10,15,20-*tetrakis*(3-bromophenyl)porphine				[68772-71-4]
		204±4		GS	[00/36]
$C_{44}H_{26}Br_4N_4$	5,10,15,20-*tetrakis*(4-bromophenyl)porphine				[29162-73-0]
		135±4		GS	[00/36]
$C_{44}H_{26}Cl_4N_4$	5,10,15,20-*tetrakis*(4-chlorophenyl)porphine				[22112-77-2]
		311±5		GS	[00/36]
$C_{44}H_{26}F_4N_4$	5,10,15,20-*tetrakis*(2-fluorophenyl)porphine				[27185-62-2]
		225±8		GS	[00/36]
$C_{44}H_{26}F_4N_4$	5,10,15,20-*tetrakis*(4-fluorophenyl)porphine				[37095-43-5]
		178±4		GS	[00/36]
$C_{44}H_{30}N_4$	5,10,15,20-tetraphenylporphine				[917-23-7]
		240±7		GS	[00/36]
form I	(540–630)	267±9			[94/41]
form II	(630–670)	185±10			[94/41]
	(588–678)	110.9±5.0	(603)	ME	[87/4][70/7]
$C_{48}H_{38}N_4$	5,10,15,20-*tetrakis*(2-methylphenyl)porphine				[37083-40-2]
		159±5		GS	[00/36]
$C_{48}H_{38}N_4$	5,10,15,20-*tetrakis*(3-methylphenyl)porphine				[50849-45-1]
		177±5		GS	[00/36]
$C_{48}H_{38}N_4$	5,10,15,20-*tetrakis*(4-methylphenyl)porphine				[14527-51-6]
		178±3		GS	[00/36]
C_{60}	buckminsterfullerene				[99685-96-8]
	(775–1033)	180±2	(298)	ME	[00/37]
	(789–907)	152.8±0.1	(897)	GS	[98/4]
		183.5±1.0	(298)		[98/4]
		179.2±3.5	(298)		[96/20][98/4]
	(730–990)	175.2±2.9	(860)	ME,TE	[95/8]
		181±2.0	(298)	ME,TE	[95/8]
		219.6		TGA	[95/35]
	(546–722)	180±10.0	(634)	UV	[94/18]
		158±3.0	(700)	ME	[94/12]
		168.5±1.2	(298)	ME	[94/12][98/4]
		181.1±2.6	(298)	ME	[94/25][98/4]
		181.4±2.3	(700)	MS	[94/15][92/22]
		158.6	(773)	ME	[93/15]
		184.1±3.1	(298)	GS	[92/21][98/4]
		183.2±3.5	(298)	ME	[92/22][98/4]
		180.6±1.5	(298)	ME	[92/23][98/4]
	(673–873)	159.0±4.2		ME	[92/16]
		>163 (powder)		TGA	[92/10]
	(640–800)	167.8±5.4	(707)	ME,MS	[91/9]
		U90.9		ME,MS	[90/20]
$C_{60}F_{16}$	hexadecafluorobuckminsterfullerene				
		186±9		ME,MS	[00/32]
$C_{60}F_{36}$	hexatriacontylfluorobuckminsterfullerene (4 isomer average)				

TABLE 6. Reported enthalpies of sublimation of organic compounds, 1910–2001—Continued

Molecular formula / Polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(422–525)	134±6	(473)	MS	[94/26][96/8]
$C_{60}F_{36}$	hexatriacontylfluorobuckminsterfullerene				[150180-35-1]
		139±8			[00/8]
	(408–539)	135±8.0	(466)	ME,MS	[99/2]
$C_{60}F_{42}$	dotetracontylfluorobuckminsterfullerene				[150155-92-3]
	(430–510)	110±10		ME,MS	[00/14]
$C_{60}F_{44}$	tetratetracontylfluorobuckminsterfullerene				[147771-02-6]
	(430–510)	112±6		ME,MS	[00/14]
$C_{60}F_{44}O$	tetracontylfluorobuckminsterfullerene				[337371-51-4]
	(430–510)	111±3		ME,MS	[00/14]
$C_{60}F_{46}$	hexatetracontylfluorobuckminsterfullerene				[143471-96-9]
	(430–510)	114±7		ME,MS	[00/14]
$C_{60}F_{48}$	octatetracontylfluorobuckminsterfullerene				[143471-98-1]
	(395–528)	109±7.0	(476)	ME,MS	[99/2][00/34]
$C_{60}H_{16}$	hexadecahydrobuckminsterfullerene				
		⩾186		E	[00/38][01/11]
$C_{60}H_{36}$	hexatriacontylhydrobuckminsterfullerene				
	(560–680)	162±5		MS	[00/38][01/11]
		152	(630)		[01/11]
		175	(298)		[01/11]
C_{70}	Fullerene—C_{70}				[115383-22-7]
	(864–1099)	199±2	(298)	ME	[00/37]
	(783–904)	189.8±3.1	(844)	ME	[96/1]
		200±6.0	(298)		[96/1]
		174±3.0	(740)	ME	[94/12]
		193.4±1.5	(750)	MS	[94/15]
		186.6	(788)	ME	[93/15]
	(673–873)	188.3±4.2		ME	[92/16]
	(640–800)	180.0±9.2	(739)	ME,MS	[91/9]
C_{76}	Fullerene—C_{76}				[135113-15-4]
	(637–911)	190±7	(764)	ME	[98/30]
	(834–1069)	206±4.0	(298)	TE	[97/21]
$C_{76}H_{94}N_4$	5,10,15,20-*tetrakis*(3,5-di-*tert*-butylphenyl)porphine				[89372-90-7]
		209±5			[00/36]
C_{84}	Fullerene—C_{84}				[135113-16-5]
	(658–980)	202±4.0	(853)	ME	[99/5]

TABLE 7. Enthalpies of sublimation of some organometallic and inorganic compounds, 1910–2001

Element / Molecular formular/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
A1					
$C_5H_5AlBr_3N$	aluminum tribromide–pyridine complex				[15348-61-5]
	(501–633)	71.2±0.6		T	[89/24]
		83.3		B,E	[67/12]
$C_{15}H_3AlF_{18}O_6$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)aluminum(III)				[17786-67-3]
	(333–363)	52		TGA	[00/35]
	(324–344)	77.6±6.2	(334)	BG	[87/20][88/22]
		79.0±6.5	(298)		[87/20]
		74.1±2.5			[85/23][87/20]
	(323–347)	109.6±3.8	(335)		[72/17]
$C_{15}H_{12}AlF_9O_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)aluminum(III)				[14354-59-7]
	(373–403)	74		TGA	[00/35]
	(363–423)	113.4±1.3		GS	[85/16]
	(369–392)	102.7±3.2			[78/27]
		108±2.0			[77/18][88/16]
		43.1	(443)		[77/25]
	(354–396)	93.7±6.7	(375)		[72/17]
		41.0			[65/11]
		40.0			[60/17]
$C_{15}H_{21}AlO_6$	*tris*(2,4-pentanedionato)aluminum(III)				[13963-57-0]
	(413–443)	93		TGA	[00/35]
		120±3.0	(298)	ME	[77/18][88/2]
	(432–464)	102.0±3.2	(448)	BG	[88/22]
		47.1±1.0			[81/13]
		118.9±7.9			[80/30]
		24.3	(458)		[77/25]
		121.7±4.2	(298)		[75/19]
	(383–413)	66.1±3.3	(398)		[72/17]
		23.4			[65/11]
	(417–476)	20.5			[60/17]
$C_{16}H_{40}Al_2N_2$	tetramethyl*bis*[μ-[N-(1-methylethyl)-2-propanaminto]]dialuminum(III)				[115381-27-6]
		99.2		ME	[88/20]
$C_{18}H_{15}Al$	triphenylaluminum				[841-76-9]
	(432–477)	172±5	(455)	ME,TE	[84/8]
$C_{24}H_{12}AlF_9O_6S_3$	*tris*(1-(2-thenoyl)-4,4,4-trifluoro-1/,3-butanedione)aluminum(III)				[14054-83-2]
		U46.4			[60/17]
$C_{27}H_{18}AlN_3O_3$	*tris*(8-hydroxyquinolinato)aluminum(III)				[2085-33-8]
		137.7		TGA	[95/35]
$C_{30}H_{18}AlF_9O_6$	*tris*(1-phenyl-4,4,4-trifluoro-1,3-butanedione)aluminum(III)				[14323-12-7]
		U55.2			[60/17]
$C_{30}H_{27}AlO_6$	*tris*(1-phenyl-1,3-butanedionato)aluminum(III)				[14376-06-8]
	(462–478)	186.8±2.1	(470)	ME,TE	[95/9]
		195.2±2.1	(298)		[95/9]
		326.5	(496)		[88/16]
		193.7±0.3	(298)		[83/20]
$C_{30}H_{30}F_{21}AlO_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyl-4,6-octanedionato)aluminum(III)				[18716-26-2]
	(363–398)	71.1±2.5	(381)		[72/17]
$C_{32}H_{16}AlClN_8$	aluminum(III)–(phthalocyaninato)chloro complex				[14154-42-8]
	(588–703)	236.4±1.7		ME	[00/30]
$C_{32}H_{16}AlFN_8$	aluminum(III)–(phthalocyaninato)fluoro complex				[5196-93-4]
	(658–768)	266.9±2.5		ME	[00/30]
$C_{33}H_{57}AlO_6$	*tris*(2,2,6,6-tetramethyl-3,5-heptanedionato)aluminum(III)				[14319-08-5]
	(413–443)	88		TGA	[00/35]
		119±3.0			[77/18][83/20]
Am					
$(C_{15}H_3AmF_{18}O_6)-2(C_{12}H_{27}O_4P)$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)americium(III)-2(tributylphosphate) complex				[58760-64-8]
	(425–511)	133.9±1.7	(468)	TRM	[78/32]
$(C_{15}H_{12}AmF_9O_6)-2(C_{12}H_{27}O_4P)$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)americium(III)-2(tributylphosphate) complex				[75101-27-8]
	(509–545)	222.6±29.2	(527)	TRM	[78/32]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
$(C_{24}H_{30}AmF_9O_6)-2(C_{12}H_{27}O_4P)$	*tris*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)americium(III)-2(tributylphosphate) complex				[75101-26-7]
	(438–493)	129.7±23.4	(465)	TRM	[78/32]
$C_{33}H_{57}AmO_6$	*tris*(2,2,6,6-tetramethyl-3,5-heptanedionato)americium(III)				[71817-66-8]
As	(373–423)	200.8		ME	[79/30]
$C_4As_4F_{12}$	*tetrakis*(trifluoromethyl)tetraarsetane				[7547-15-1]
	(317–354)	76.6	(335)		[66/14]
$C_{15}H_{30}AsN_3S_6$	*tris*(N,N-diethyldithiocarbamate)arsenic(III)				[17767-20-3]
		124±3	(298)		[87/16]
$C_{18}H_{15}As$	triphenylarsine				[603-32-7]
		98.3±8.4			[82/20][64/6]
$C_{18}H_{15}AsO$	triphenylarsine oxide				[1153-05-5]
		149.0±5.4			[94/31]
$C_{21}H_{42}AsN_3S_6$	*tris*(dipropyldithiocarbamate)arsenic(III)				[86431-46-1]
		145.1±5.3	(298)	DSC,E	[99/34]
$C_{27}H_{54}AsN_3S_6$	*tris*(N,N-dibutyldithiocarbamate)arsenic(III)				[48233-55-2]
		128±3	(298)		[94/31]
$C_{27}H_{54}AsN_3S_6$	*tris*(N,N-diisobutyldithiocarbamate)arsenic(III)				[41582-74-5]
		128±2	(298)	DSC,E	[97/31]
Au					
$C_7H_{10}AuF_3O_2$	dimethyl(1,1,1-trifluoro-2,4-pentanedionato)gold(III)				
	(265–300)	83.5			[00/33]
B					
CH_5BO_2	dihydroxymethylborane				[13061-96-6]
	(293–362)	64.1	(308)		[87/4]
	(298–338)	65.2	(318)		[40/4]
$(CH_5N)-(BH_3)$	methylamine–borane complex				[1722-33-4]
	(273–318)	78.7±4.2		ME	[59/16]
$(CH_5N)-(C_3H_9BO_3)$	methylamine–methylborate complex				
		58.2			[51/13]
$CH_{11}B_2NS_1$	N-methyl-N-silylaminodiborane				
	(214–230)	36.6	(222)		[50/7]
$(C_2H_3OF)-(BF_3)$	methylfluorocarbonyl–trifluoroboron complex				[353-44-6]
	(223–273)	26.3	(248)		[57/8]
$(C_2H_5B_3)-(C_3H_9N)$	1,5-dicarbopentaborane(5)–trimethylamine complex				
	(220–253)	49.7	(236)		[72/28]
$C_2H_6BF_2N$	dimethylamino difluoroboron				
	(308–359)	76.5	(333)		[54/13]
$(C_2H_7N)-(BH_3)$	dimethylamine–borane complex				[74-94-2]
	(273–308)	77.4±2.9		ME	[69/16]
$(C_2H_7N)-(C_3H_9BO_3)$	dimethylamine–methylborate complex				
		70.3			[51/13]
$C_2H_6B_4$	1,6-dicarbahexaborane				[20693-67-8]
	(190–209)	31.2	(194)		[87/4]
$C_2H_{12}B_{10}$	1,2-dicarbadodecaborane (*o*-carborane)				[16872-09-6]
	(283–333)	50.3	(318)		[87/4]
	(333–423)	49.4	(348)		[87/4]
		65.4±1.0	(298)		[82/20][76/13]
$C_2H_{12}B_{10}$	1,7-dicarbadodecaborane (*m*-carborane)				[16986-24-6]
	(283–333)	67.5	(298)		[87/4]
	(333–423)	63.3	(348)		[87/4]
		58.5±1.0	(298)		[82/20][76/13]
$C_2H_{12}B_{10}$	1,12-dicarbododecaborane (*p*-carborane)				[20644-12-6]
		61.3±1.0	(298)		[82/20][76/13]
$(C_3H_7N)-(BH_3)$	azetidine–borane complex				
	(297–321)	67.9	(309)		[56/17]
$(C_3H_9B)-(C_2H_9Nsi)$	trimethylboron–silyldimethylamine complex				
	(243–268)	51.4	(255)		[54/11]
$(C_3H_9B)-(C_7H_{13}N)$	trimethylboron–azabicyclo[2.2.2]octane complex				
	(273–388)	79.6			[48/3]
$(C_3H_9N)-(BF_3)$	trimethylamine–boron trifluoride complex				[420-20-2]
	(373–413)	68.9	(393)		[87/4][43/5]
$(C_3H_9)-(B_2F_4)$	trimethylamine–diboron tetrafluoride (tetramer)				[3801-72-7]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(366–399)	65.1	(382)		[58/8]
$C_3H_9B_3Cl_3N_3$	2,4,6-trichloro-1,3,5-trimethylborazine				[703-86-6]
	(363–404)	57.9	(383.5)		[87/4]
$(C_3H_9N)-(BH_3)$	trimethylamine–borane complex				[75-22-9]
	(273–363)	56.9± 0.8		ME	[59/16]
	(296–367)	57	(311)		[87/4][37/1]
$(C_3H_9N)-(C_3H_6BCl_2N)$	trimethylamine–dimethylaminoboron dichloride complex				
	(293–342)	66.1± 1.7	(317)		[52/8]
$C_3H_{10}BN$	N-methylaminodimethylborane				[4023-40-9]
		56.9± 0.8	(298)		[88/16][66/7]
$C_3H_{12}B_{10}O_2$	*o*-carboranecarboxylic acid				[18178-04-6]
		97.0± 1.7	(298)		[82/20][70/14]
$C_3H_{12}B_{10}O_2$	*m*-carboranecarboxylic acid				[18581-81-2]
		97.7± 0.7	(298)		[82/20][70/14]
$C_3H_{12}B_{10}O_2$	*p*-carboranecarboxylic acid				[23087-98-1]
		96.3± 0.7	(298)		[82/20][70/14]
$C_3H_{14}B_{10}$	methyl-*o*-carborane				[16872-10-9]
		63.8± 0.6	(298)		[82/20][76/13]
$C_3H_{14}B_{10}O$	hydroxymethyl-*o*-carborane				[19610-34-5]
		77.0± 1.3	(298)		[82/20][76/13]
$C_3H_{14}B_{10}O$	hydroxymethyl-*m*-carborane				[53257-04-8]
		78.3± 1.3	(298)		[82/20][76/13]
$C_3H_{14}B_{10}O$	hydroxymethyl-*p*-carborane				[35795-98-3]
		83.9± 1.3	(298)		[82/20][76/13]
$C_4H_{11}BO_2$	dihydroxy-*n*-butylborane				[4426-47-5]
	(303–340)	69.9± 0.8	(321)	BG	[56/12]
$C_4H_{12}B_2Br_4N_2$	dibromo(dimethylamino)borane dimer				[25928-66-9]
		87.4± 22.2		BG	[83/12]
$(C_4H_{12}GeO)-(BF_3)$	trimethylmethoxygermane–boron trifluoride complex				
	(289–306)	59.5	(297)	SG	[61/9]
$C_4H_{16}B_{10}$	dimethyl-*o*-carborane				[17032-21-2]
		65.3± 07	(298)		[82/20][76/13]
$C_4H_{18}B_4N_2$	1,4-piperazinediyl *bis*(diborane(6))				
	(318–346)	63.9	(332)		[68/16]
$(C_5H_5N)-(BBr_3)$	boron tribromide–pyridine complex				[3022-54-6]
	(523–602)	65.8± 0.2		T	[89/24]
		105.5± 1.1	(393)	C	[89/24]
$(C_5H_{11}N)-(BCl_3)$	piperidine–boron trichloride complex				
	(448–457)	76.1	(453)	GS	[60/19]
$(C_5H_{11}N)-(BH_3)$	piperidine–borane complex				
	(342–380)	87.8	(361)		[56/17]
$C_5H_{21}B_3N_2S$	1,2,3,3,4,4,5,5,6,6-decahydro-1,3,3,5,5-pentamethyl-2*H*-1,3,5,2,4,6-thiadiazatriborine				[37956-18-6]
		57.7			[72/27]
$C_6H_{12}BNO_3$	2,8,9-trioxa-5-aza-1-boratricyclo[3.3.3.0^{1,5}]undecane				[283-56-7]
		111.9± 0.9	(418)	C	[84/14]
$(C_7H_9N)-(BH_3)$	2,6-dimethylpyridine–borane complex				
	(358–378)	83.8	(368)	T	[56/15]
$C_7H_{14}BNO_3$	2,9,10-trioxa-5-aza-1-boratricyclo[4.3.3.0^{1,6}]dodecane				[283-62-5]
		105.2± 0.6	(390)	C	[84/14]
$C_8H_{16}BNO_3$	2,10,11-trioxa-5-aza-1-boratricyclo[4.4.3.0^{1,6}]tridecane				[283-64-7]
		102.2± 1.0	(390)	C	[84/14]
$C_8H_{18}BNO_3$	2,10,11-trioxa-5-aza-1-boratricyclo[4.4.4.0^{1,6}]tetradecane				[283-65-8]
		97.9± 1.0	(418)	C	[84/14]
$C_8H_{18}B_{10}O_3$	1,2-dicarbadodecaborane(12)-1-carboperoxoic acid 1,1-dimethyl-2-propynyl ester				[146959-04-8]
	(329–343)	120.7± 7.4		ME	[99/43]
$C_8H_{18}B_{10}O_3$	1,7-dicarbadodecaborane(12)-1-carboperoxoic acid 1,1-dimethyl-2-propynyl ester				[146959-05-9]
	(317–334)	80.1± 6.1		ME	[99/43]
$C_8H_{24}B_{10}$	1-hexyl-*o*-carborane				[20740-05-0]
		86.2± 1.4	(298)		[82/20][78/23]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{11}H_{24}B_{10}O_3$	1,2-dicarbadodecaborane(12)-1-carboperoxoic acid 2-(1-methylethyl)-1,1-dimethyl-2-propynyl ester				[146959-06-0]
	(345–362)	125.1± 7.0		ME	[99/43]
$C_{18}H_{15}B$	triphenylboron				[960-71-4]
		103.8± 2.5	(360)	TE,ME	[84/4]
		92.1± 2.5	(298)		[78/2]
		81.6± 2.1			[82/20][67/10]
$C_{18}H_{33}B$	tricyclohexylboron				[1088-01-3]
		81.6± 4.2	(298)		[82/20][67/10]
B_2F_4	diboron tetrafluoride				[13965-73-6]
	(178–209.5)	35.5	(193)		[58/8]
$B_3Br_3H_3N_3$	2,4,6-tribromoborazine				[13703-88-3]
	(342–395)	86.2± 0.4		I	[66/9]
$B_3Cl_3H_3N_3$	2,4,6-trichloroborazine				[933-18-6]
	(303–353)	70.5± 0.4		I	[66/9]
	(313–357)	71.1			[55/6]
$B_3F_3H_3N_3$	2,4,6-trifluoroborazine				[13779-24-3]
	(273–454)	63.1± 0.1		I	[66/9]
$B_3H_{12}N_3$	hexahydroborazine				[13871-09-5]
	(321–349)	104.6± 12.6		ME	[69/22][71/30]
$(NH_3)-(B_3H_7)$	ammonia–triborane complex				
	(306–328)	71.5± 0.4		ME	[59/16]
	(304–327)	71.5			[59/15]
Ba					
$(C_{10}H_2BaF_{12}O_4)-(C_{12}H_{24}O_6)$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)barium(II)–18-crown-6 complex				[143737-48-8]
	(412–468)	104.9± 1.3	(440)		[95/22]
	(428–473)	115± 2	(450)	T	[93/4]
$C_{22}H_{38}BaO_4$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)barium(II)				[155138-07-1]
		NA			[94/40]
	(413–473)	90.2	(443)		[93/9]
$C_{34}H_{42}BaCu_2F_{24}O_8$	*tetrakis*(hexafluoroisopropoxy)*bis*(2,2,6,6-tetramethylheptane-3,5-dionato) barium(II)dicopper(II)				[16034-35-2]
	(383–448)	102.7	(416)		[96/7]
$C_{56}H_{80}BaF_{24}O_{12}Y_2$	*tetrakis*(hexafluoroisopropoxy)*tetrakis*(2,2,6,6-tetramethylheptane-3,5-dionato) barium(II)diyttrium(III)				[160669-81-8]
	(360–403)	84.8	(382)		[96/7]
Be					
$C_{10}H_2BeF_{12}O_4$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)beryllium(II)				[19648-82-9]
	(289–349)	66.1	(319)	BG	[87/20]
$C_{10}H_8BeF_6O_4$	*bis*(1,1,1-trifluoro-2,4-pentanedionato)berylium(II)				[13939-10-1]
	(354–383)	85.3± 6.3	(368)	BG	[87/20][88/22]
		88.0± 6.5	(298)		[87/20]
		U30.5			[60/17]
$C_{10}H_{14}BeO_4$	*bis*(2,4-pentanedionato)berylium(II)				[10210-64-7]
		94± 1.0	(298)	ME	[77/18][88/2]
		95.3± 2.0	(298)		[88/25]
		82.3	(298)	BG	[88/22]
		91± 1.4	(298)	C	[85/5]
		85.3± 3.5		DSC	[83/10]
		U35.6			[60/17]
$C_{12}H_{18}Be_4O_{13}$	*hexakis*(aceto)-oxotetraberyllium				[19049-40-2]
	(390–451)	115.3	(420.5)		[87/4]
monoclinic		115.3			[59/17]
form I	(394–422)	132.6	(408)		[55/9]
form II	(426–446)	113.4	(436)		[55/9]
$C_{20}H_{12}BeF_6O_4$	*bis*(1-phenyl-4,4,4-trifluoro-1,3-butanedionato)beryllium(II)				[14052-07-4]
		U35.8		I	[60/17]
$C_{20}H_{18}BeO_4$	*bis*(benzoylacetonato)berylium(II)				[14128-75-7]
	(416–438)	151.6± 1.8	(427)	TE,ME	[95/9]
		158.0± 1.8	(298)		[95/9]
		142.3± 1.4	(298)	C	[83/20]
$C_{22}H_{38}BeO_4$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)berylium				[36915-22-7]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
		84.2		BG	[88/22]
BeF_2	beryllium fluoride				[7787-49-7]
	(713–795)	236.4±2.9	(750)	TE	[65/20]
		231.8±1.7	(755)	MS	[65/20]
Bi					
$C_{15}H_{30}BiN_3S_6$	*tris*(N,N-diethyldithiocarbamate)bismuth(III)				[20673-31-8]
		213±3	(298)		[94/31]
$C_{18}H_{15}Bi$	triphenylbismuth				[603-33-8]
		110.9±8.4	(298)		[82/20][79/22]
$C_{21}H_{42}BiN_3S_6$	*tris*(dipropyldithiocarbamate)bismuth(III)				[57407-97-3]
		285.2±5.0		DSC,E	[99/34]
$C_{27}H_{54}BiN_3S_6$	*tris*(N,N-dibutyldithiocarbamate)bismuth(III)				[34410-99-6]
		202±3	(298)		[94/31]
$C_{27}H_{54}BiN_3S_6$	*tris*(N,N-diisobutyldithiocarbamate)bismuth(III)				[90285-80-6]
		147±3	(298)	DSC,E	[97/31]
$BiCl_3$	bismuth (III) chloride				[7787-60-2]
	(371–468)	124.7		ME	[66/8][59/11]
	(371–468)	118.8±0.4	(420)	ME	[59/11]
Ca					
$C_{22}H_{38}CaO_4$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)calcium(II)				[3618-89-0]
		72.0		GS	[90/15]
Cd					
$C_4H_{16}CdCl_2N_8S_4$	*trans*-dichloro-*tetrakis*(thiourea)cadmium(II)				[28813-21-0]
	(377–405)	75±20			[70/11]
$C_{10}H_{14}CdCl_2N_6O_2$	[cadmium(1-methylcytosine)$_2$Cl$_2$]				
	(483–503)	135.3±20	(493)	ME	[84/12]
		145±20	(298)		[84/12]
$C_{10}H_{14}CdO_4$	*bis*(2,4-pentanedionato)cadmium(II)				[14689-45-3]
	(438–448)	144.9±22	(443)	ME	[84/12]
		154±22	(298)		[84/12]
$C_{10}H_{20}CdN_2S_4$	*bis*(diethyldithiocarbamate)cadmium(II)				[14239-68-0]
	(433–469)	133.2	(451)		[87/4]
$C_{14}H_{28}CdN_2S_4$	*bis*(dipropyldithiocarbamate)cadmium(II)				[55519-99-8]
		199±1	(298)	DSC,E	[92/19]
$C_{18}H_{12}CdN_2O_2$	*bis*(8-hydroxyquinolinato)cadmium(II)				[14245-29-5]
		201.7±7.5	(298)	ME	[94/16]
	(438–448)	144.9±22	(443)	ME	[84/12]
		154±22	(298)		[84/12]
$C_{18}H_{36}CdN_2S_4$	*bis*(dibutyldithiocarbamate)cadmium(II)				[14566-86-0]
		123±3	(298)	DSC,E	[91/15]
$C_{18}H_{36}CdN_2S_4$	*bis*(diisobutyldithiocarbamate)cadmium(II)				[69090-75-1]
		281±2	(298)	DSC,E	[94/33]
$C_{20}H_{16}CdN_2O_2$	*bis*(8-hydroxy-2-methylquinolinate)cadmium(II)				[15685-78-6]
	(537–554)	190.9±7.3	(546)	ME	[98/8]
		203.3±7.3	(298)		[98/8]
$C_{44}H_{28}CdN_4$	5,10,15,20-tetraphenylporphine cadmium(II)				[14977-07-2]
		222±6		GS	[00/36]
Ce					
$C_{15}H_{15}Ce$	*tris*(cyclopentadienyl)cerium				[1298-53-9]
	(528–653)	104.6±2.1			[73/31]
$CeBr_3$	cerium(III) bromide				[14457-87-5]
	(887–1003)	300±10	(298)	TE	[00/19]
$CeCl_3$	cerium(III) chloride				[7790-86-5]
	(955–1070)	331±5	(298)	TE	[00/19]
CeI_3	cerium(III) iodide				[7790-87-6]
	(910–1031)	295±10	(298)	TE	[00/19]
Cf					
$(C_{15}H_3CfF_{18}O_6)$–2$(C_6H_{14}OS)$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)californium-249–dipropyl sulfoxide (1:2) complex				[123611-97-2]
	(402–434)	93.6±6.0		GS,TRM	[89/31]
$(C_{15}H_3CfF_{18}O_6)$–2$(C_{12}H_{27}OP)$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)californium-249–tributylphosphine oxide (1:2) complex				[123628-36-4]
	(431–485)	130.6±1.9		GS,TRM	[89/31]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$(C_{15}H_3CfF_{18}O_6)-2(C_{12}H_{27}O_4P)$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)californium-249–tributylphosphate (1:2) complex				[123712-43-6]
	(413–451)	133.0±6.1		GS,TRM	[89/31]
Cl					
HCl	hydrogen chloride				
	(121–133)	19.7	(127)		[90/33]
	(134–150)	19.6	(142)		[90/33]
Co					
$C_4H_{16}Cl_2CoN_8S_4$	*trans*-dichloro-*tetrakis*(thiourea)cobalt(II)				[22738-43-8]
	(356–382)	129±20			[70/11]
$C_8Co_2O_8$	octacarbonyldicobalt				[10210-68-1]
	(264–278)	84.3±0.5	(271)	TE	[95/36]
	(288–315)	103.8	(301.5)		[87/4][68/15]
		65.2±3.3	(298)		[82/20][75/26]
	(207–287)	75.3±6.3		EM	[73/26]
$C_8H_{10}Cl_2CoN_6O_2$	[cobalt(cytosine)$_2$Cl$_2$]				[74543-51-4]
	(483–523)	151.8±14	(503)	ME	[84/12]
		162±14	(298)		[84/12]
C_9CoMnO_9	nonacarbonylcobaltmanganese				[35646-82-3]
		85±2	(308)	C	[98/33]
		72±2	(298)		[98/33]
C_9CoO_9 Re	nonacarbonylcobaltrhenium				[15039-80-2]
		94±4	(313)	C	[98/33]
		83±4	(298)		[98/33]
$C_{10}BrCo_3O_9$	(bromomethylidyne)tricobaltenneacarbonyl				[19439-14-6]
		99.6±1.7	(298)		[82/20][75/26]
$C_{10}ClCo_3O_9$	(chloromethylidyne)tricobaltenneacarbonyl				[13682-02-5]
		117.6±2.5	(298)		[82/20][75/26]
$C_{10}H_8Cl_4CoN_2$	[cobalt(2-chloropyridine)$_2$Cl$_2$]				[14361-73-0]
	(345–365)	101.2±6.7	(355)	DSC	[82/18]
$C_{10}H_8Cl_4CoN_2$	[cobalt(3-chloropyridine)$_2$Cl$_2$]				[14361-78-5]
	(345–365)	77.0±4.2	(355)	DSC	[82/18]
$C_{10}H_{10}Co$	dicyclopentadienyl cobalt				[1277-43-6]
		72.1±0.1			[88/3]
		70.3±4.2	(298)		[82/20][75/23]
$C_{10}H_{14}CoO_4$	*bis*(2,4-pentanedionato)cobalt(II)				[14024-48-7]
	(433–463)	149		TGA	[00/35]
	(322–371)	130.1±6.3	(298)	ME	[90/21]
		118.7±2.2	(298)		[85/5]
		81.2	(370)		[70/10]
		U62.8			[60/17]
$C_{12}Co_4O_{12}$	tetracobaltdodecacarbonyl				[17786-31-1]
		96.2±4.2	(298)		[82/20][74/26]
$C_{12}H_{14}Cl_2CoN_2$	[cobalt(2-methylpyridine)$_2$Cl$_2$]				[13869-67-5]
	(345–365)	86.6±3.8	(355)	DSC	[82/18]
$C_{14}H_{10}Br_2CoN_2S_2$	[cobalt(benzothiazole)$_2$Br$_2$]				[21422-14-0]
	(381–399)	127.7±4.1	(390)	DSC	[73/28]
$C_{15}H_3CoF_{18}O_6$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)cobalt(III)				[16702-37-7]
	(333–363)	73		TGA	[00/35]
$C_{15}H_{12}CoF_9O_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)cobalt(III)				[16827-64-8]
	(373–403)	119		TGA	[00/35]
		114±4.0	(298)		[88/1]
	(383–433)	108.8±0.4		GS	[85/16]
$C_{15}H_{21}CoO_6$	*tris*(2,4-pentanedionato)cobalt(III)				[21679-46-9]
	(433–463)	138		TGA	[00/35]
		NA			[94/34]
	(318–382)	134.6±4.0	(298)	ME	[90/21]
		142.6±6.9	(471)	DSC	[87/13]
		86.3			[71/17]
		107.1	(390)		[70/10]
		74.9±4.6			[64/4]
		U13.0			[61/8]
$C_{15}H_{30}CoN_3S_6$	*tris*(diethyldithiocarbamato)cobalt(III)				[13963-60-5]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(448–587)	95±6	(518)		[79/20]
$C_{16}H_{14}Br_2CoN_2O_2$	[cobalt(2-methylbenzoxazole)$_2$Br$_2$]				[22974-96-5]
	(345–390)	111.1±4.2	(368)	DSC	[82/18][74/27]
$C_{16}H_{14}Cl_2CoN_2O_2$	[cobalt(2-methylbenzoxazole)$_2$Cl$_2$]				[52657-96-2]
	(345–390)	92.4±2.5	(368)	DSC	[82/18][74/27]
$C_{16}H_{14}Br_2CoN_2S_2$	[cobalt(2-methylbenzothiazole)$_2$Br$_2$]				[26225-02-5]
	(335–354)	115.1±4.1	(345)	DSC	[73/28]
$C_{16}H_{14}Cl_2CoN_2S_2$	[cobalt(2-methylbenzothiazole)$_2$Cl$_2$]				[26225-01-4]
	(332–356)	122.6±1.2	(345)	DSC	[73/28]
$C_{18}H_{12}CoN_2O_2$	*bis*(8-hydroxyquinolinato)cobalt(II)				[13978-88-6]
		205.3±4.0	(298)	ME	[94/16]
	(533–569)	185.7±9	(551)	ME	[84/12]
		200±10	(298)		[84/12]
$C_{18}H_{14}CoN_4$	dibenzotetra-aza–annulene cobalt(II) complex				[41283-94-7]
		178.2±16.7	(360)		[82/25]
$C_{18}H_{18}Br_2CoN_2O_2$	[cobalt(2,5-dimethylbenzoxazole)$_2$Br$_2$]				[52230-48-5]
	(345–390)	95.4±4.6	(368)	DSC	[82/18][74/27]
$C_{18}H_{18}Cl_2CoN_2O_2$	[cobalt(2,5-dimethylbenzoxazole)$_2$Cl$_2$]				[52230-47-4]
	(345–390)	104.6±5.8	(368)	DSC	[82/18][74/27]
$C_{20}H_{16}CoN_2O_2$	*bis*(8-hydroxy-2-methylquinolinate)cobalt(II)				[17992-18-6]
	(457–473)	196.1±5.9	(465)	ME	[98/8]
		204.4±5.9	(298)		[98/8]
$C_{22}H_{38}CoO_4$	*bis*(2,2,6,6-tetramethyl-3,5-heptanedionato)cobalt(II)				[13986-53-3]
	(433–463)	143		TGA	[00/35]
$C_{24}H_{12}CoF_9O_6S_3$	*tris*(1-(2-thenoyl)-4,4,4-trifluoro-1,3-butanedione)cobalt(III)				[41875-84-7]
		45.6			[61/8]
$C_{24}H_{12}CoF_9O_9$	*tris*(2-furoyltrifluoroacetonato)cobalt(III)				[64137-83-3]
		35.6			[61/8]
$C_{30}H_{18}CoF_9O_6$	*tris*(1-phenyl-4,4,4-trifluoro-1,3-butanedionato)cobalt(III)				[31125-84-5]
		51.0			[61/8]
$C_{30}H_{27}CoO_6$	*tris*(1-phenyl-1,3-butanedionato)cobalt(III)				[14524-55-1]
		39.0			[61/8]
$C_{32}H_{16}CoN_8$	cobalt (II) phthalocyanine				[3317-67-7]
		183.7±13.8		ME	[70/7]
$C_{32}H_{46}CoN_2O_4$	*bis*(2,2,6,6-tetramethyl-3,5-heptanedionato)(2,2′-bipyridyl)cobalt(II)				[18347-53-8]
		126±4.0		B	[96/24]
		130.3		UV/Vis	[96/24]
		124.4		MEM	[96/24]
$C_{33}H_{57}CoO_6$	*tris*(2,2,6,6-tetramethyl-3,5-heptanedionato)cobalt(III)				[14877-41-3]
	(433–463)	132		TGA	[00/35]
		126±3.0	(298)		[88/1]
$CoBr_2$	cobalt(II) bromide				[7789-43-7]
	(764–911)	207±4.0	(802)	TE	[97/20]
		216±1.0	(298)		[97/20]
Cr					
C_6CrO_6	chromium hexacarbonyl				[13007-92-6]
	(266–272)	65.7	(269)	TE	[95/36]
	(323–391)	68.5±1.1			[93/28]
	(288–423)	68.5	(355.5)		[87/4]
		68.9±2	(298)		[84/17]
		70.0±2	(298)	C	[83/20]
	(240–280)	71.6±1.7	(260)	ME	[80/34][79/19]
		69.5	(298)	C	[75/20]
		72.0±4.2	(298)		[82/20][75/24]
	(274–301)	71.5±0.8	(288)	BG	[66/17]
	(319–411)	69.3			[52/7]
		71.9			[35/2]
	(308–408)	63.6	(358)	MM	[34/3]
$C_8H_3CrNO_5S$	thiazole(pentacarbonyl)chromium				[55293-31-7]
	(270–301)	102.0±2.7	(286)	ME	[79/19]
$C_8H_4CrN_2O_5$	pyrazole(pentacarbonyl)chromium				[71127-65-6]
	(270–303)	88.4±1.8	(287)	ME	[79/19]
$C_8H_9CrNO_5$	trimethylamine(pentacarbonyl)chromium				[15228-26-9]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(248–293)	80.2±0.7	(271)	ME	[80/34]
$C_8H_9CrO_5P$	trimethylphosphine(pentacarbonyl)chromium				[26555-09-9]
		91.2±1.6		ME	[80/34]
$C_8H_{12}CrMoO_8$	chromium molybdenum tetraacetate				[71561-64-3]
		165.0±8.4			[82/20]
$C_8H_{12}Cr_2O_8$	tetra-μ-acetatodichromium(II)				[15020-15-2]
	(330–340)	299.6±10	(335)	ME,TE	[84/20]
		313.8±27.0	(298)		[82/20]
		145		E	[79/23]
$C_9H_4CrN_2O_5$	pyrazine(pentacarbonyl)chromium				[66179-02-0]
		99.7		ME	[79/19]
$C_9H_5ClCrO_3$	chlorobenzenechromium tricarbonyl				[12082-03-0]
		102.5±4.2	(298)		[82/20][75/20]
$C_9H_6CrO_3$	benzene chromium tricarbonyl				[12082-08-5]
		91.2	(298)	C	[75/20]
		U58.6			[61/4][73/29]
	(364–370)	97.9		TE	[59/6][73/29]
$C_{10}H_5CrNO_5$	pyridine(pentacarbonyl)chromium				[14740-77-3]
	(294–317)	103.2±1.8	(306)	ME	[79/19]
$C_{10}H_8CrO_3$	cycloheptatriene chromium tricarbonyl				[12125-72-3]
		94.1	(298)	C	[75/20]
$C_{10}H_8CrO_3$	η^6-toluene(tricarbonyl)chromium				[12125-87-0]
		93.0±2.0	(298)	C	[84/17]
		94.6±4.2	(298)		[82/20][75/20]
$C_{10}H_8CrO_4$	η^6-anisole(tricarbonyl)chromium				[12116-44-8]
		104.2±2.0	(298)	C	[84/17]
$C_{10}H_{10}Cr$	dicyclopentadienyl chromium				[1271-24-5]
		71.0	(298)		[84/24]
		62.8±4.2	(298)		[82/20][75/23]
		69.9±1.7			[77/24]
$C_{10}H_{14}CrO_4$	*bis*(2,4-pentanedionato)chromium(II)				[14024-50-1]
	(330–370)	129.8±8.7	(298)	ME	[90/21]
		111	(439)	T	[81/15]
$C_{10}H_{11}CrNO_5$	piperidine(pentacarbonyl)chromium				[15710-39-1]
	(265–298)	93.5±1.9	(282)	ME	[79/19]
$C_{11}H_8CrO_4$	norbornadienechromium tetracarbonyl				[12146-36-0]
		89.0±4.0	(298)		[82/20][77/22]
$C_{11}H_8CrO_4$	η^6-acetophenone(tricarbonyl)chromium				[12153-11-6]
		107.0±0.6	(298)	C	[84/17]
$C_{11}H_8CrO_5$	η^6-methyl benzoate(tricarbonyl)chromium				[12125-87-0]
		114.0±5.0	(298)	C	[84/17]
$C_{11}H_{11}CrNO_3$	η^6-N,N-dimethylaniline(tricarbonyl)chromium				[12109-10-3]
		118.4±10	(298)	C	[84/17]
$C_{12}H_{12}Cr$	dibenzenechromium				[1271-54-1]
	(323–363)	89.4	(343)		[87/4]
		78.2±6.3	(298)		[82/20][73/29]
		82.0±2.1		ME	[73/22]
		90.6±0.3			[69/21]
		78.2±6.2	(298)		[58/13]
$C_{12}H_{12}CrO_3$	mesitylene chromium tricarbonyl				[12129-67-8]
		108.4	(298)	C	[75/20]
		U64.4			[61/5][77/21]
$C_{12}H_{12}CrO_3$	(1,2,4-trimethylbenzene) chromium tricarbonyl				[32913-41-0]
		U33.5			[61/5][77/21]
$C_{13}H_8CrO_3$	(1,2,3,4,4a,8a-h-naphthalene)tricarbonyl chromium				[12110-37-1]
		107±3	(298)	C	[79/16]
$C_{15}H_3F_{18}CrO_6$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)chromium(III)				[14592-80-4]
	(333–363)	46		TGA	[00/35]
		112±4.0	(298)		[87/12]
	(333–360)	123.0±1.3	(335)		[72/17]
$C_{15}H_{12}CrF_9O_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)chromium(III)				[14592-89-2]
	(373–403)	71		TGA	[00/35]
		182±4.0	(426)	C	[87/12]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		117±4.0	(298)		[87/12]
	(373–438)	115.1±0.8		GS	[85/16]
	(403–423)	112.5±4.8			[78/29]
		53.6	(447)		[77/25]
	(377–413)	108.8±1.3	(395)		[72/17]
$C_{15}H_{18}CrO_3$	hexamethylbenzene chromium tricarbonyl				[12088-11-8]
		123.0±4.0	(298)	C	[75/20][77/22]
$C_{15}H_{21}CrO_6$	*tris*(2,4-pentanedionato)chromium(III)				[21679-31-2]
	(413–443)	91		TGA	[00/35]
	(350–375)	126.8±4.2	(298)	ME	[90/21]
	(457–486)	113.0±4.8		BG	[88/22][87/21]
		132.1±1.9	(298)	C	[85/5]
		28.9	(463)		[77/25]
		112.1	(390)		[70/10]
	(363–393)	40.2±1.7	(378)		[72/17]
		110.9±0.8	(298)	HSA	[70/9][70/17]
		123±3.0	(298)	ME	[77/18][88/2]
					[67/11]
$C_{18}H_{24}Cr$	*bis*(η^6-1,3,5-trimethylbenzene)chromium				[1274-07-3]
		104±1	(298)	C	[79/16]
$C_{20}H_{16}Cr$	*bis*(naphthalene)chromium				[33085-81-3]
		105.0±10			[79/16]
$C_{23}H_{15}CrO_5P$	triphenylphosphine(pentacarbonyl)chromium				[14917-12-5]
	(324–347)	170.2±6.8	(336)	ME	[80/34]
$C_{24}H_{24}Cr_2N_4O_4$	*tetrakis*(6-methyl-2-hydroxypyridyl)dichromium(II)				[67634-82-6]
		150.0±4.0	(298)		[82/20][81/18]
$C_{24}H_{36}Cr$	*bis*(η^6-hexamethylbenzene)chromium				[12156-66-0]
		119±4	(298)	C	[79/16]
$C_{30}H_{27}CrO_6$	*tris*(1-phenyl-1,3-butanedionato)chromium(III)				[16432-36-3]
		186±2	(298)		[87/12]
$C_{30}H_{30}F_{21}CrO_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyl-4,6-octanedionato)chromium(III)				[17966-86-8]
	(323–353)	37.7±0.8	(338)		[72/17]
$C_{33}H_{57}CrO_6$	*tris*(2,2,6,6-tetramethyl-3,5-heptanedionato)chromium(III)				[14434-47-0]
	(413–443)	85		TGA	[00/35]
		133±2	(298)		[87/12]
CrI_2	chromium II iodide				[13478-28-9]
	(943–1054)	298.7	(298)	65	[56/19]
Cs					
$C_5H_9CsO_2$	cesium pivalate				[20442-70-0]
		163.5±7.2			[98/31]
CsI	cesium iodide				[7789-17-5]
		195.6	(298)	GS	[98/4]
		193.1	(298)	T	[85/15][98/4]
		193.1	(298)	T	[84/29][98/4]
		191.1	(298)	MS	[84/28][98/4]
Cu					
$C_6H_{12}CuN_2S_4$	*bis*(dimethyldithiocarbamato) copper complex				[137-29-1]
		156.0±0.3	(298)	C	[95/21]
	(443–473)	147.4±0.8	(458)		[87/4][78/12]
		149.0±2.5		GC	[76/21]
$C_8H_{12}Cu_2O_8$	*tetrakis*(acetato)dicopper(II)				[24411-13-0]
	(321–360)	106.1±0.9	(298)	ME, TE	[90/2]
$C_8H_{14}CuN_4O_4$	*bis*(dimethylglyoxime)copper(II)				[14221-10-4]
		93.1±0.8	(298)	TE, ME	[90/2]
$C_{10}H_2CuF_{12}O_4$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)copper(II)				[14781-45-4]
		108±6	(298)	C	[88/7]
$C_{10}H_8CuF_6O_4$	*bis*(1,1,1-trifluoro-2,4-pentanedionato)copper(II)				[14324-82-4]
	(373–403)	112		TGA	[00/35]
	(342–359)	113.3±2.4	(350)	TE	[95/4]
		115.9±2.4	(298)		[95/4]
	(342–359)	114.4±1.6	(350)	ME	[95/4]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Molecular formula/polymorph	Temperature range (K)			Method	Reference
		117.0±1.6	(298)		[95/4]
		112±3.0	(298)	C	[88/7]
	(383–463)	110.0±0.8		GS	[85/16]
		U50.6			[60/17]
$C_{10}H_{14}CuO_4$	*bis*(2,4-pentanedionato)copper(II)				[13395-16-9]
	(413–443)	120		TGA	[00/35]
	(377–398)	122.5±1.2	(387)	TE	[95/4]
		122.5±1.2	(298)		[95/4]
	(377–398)	122.6±0.7	(387)	ME	[95/4]
		127.1±1.2	(298)		[95/4]
		122.3±1.1	(393)	ME	[95/4]
		127.0±1.1	(298)		[95/4]
		116.6±2.0	(298)	C	[94/7]
	(315–386)	115.1±2.1	(298)		[91/17]
		142.6±6.9	(471)	DSC	[87/12]
		107.1±5.7	(492)		[87/13]
		127.5±3.2	(298)		[85/5]
		154±22	(298)		[84/12]
		109.9±3.4	(298)	C	[84/11]
		57.1		TE	[81/13]
		109.6			[72/24]
		106.1		TG	[71/17]
		109±6	(400)		[70/10]
		57.3		DSC	[71/18]
		62.8			[62/8]
$C_{10}H_{20}CuN_2S_4$	*bis*(diethyldithiocarbamate)copper(II)				[13681-87-3]
		162.6±5	(298)		[89/10]
	(420–465)	149.1±0.4	(442.5)		[87/4][78/12]
		103.8±2.4			[79/20]
		116.2±1.3			[79/14]
		149.0±2.5			[76/21]
		87±1.7		I	[69/15]
$C_{12}H_{12}CuF_6O_4$	*bis*(1,1,1-trifluorohexane-2,4-dione)copper(II)				[30133-85-8]
		119.1±1.7	(298)	ME	[98/32]
$C_{12}H_{18}CuO_4$	*bis*(3-methyl-2,4-pentanedionato)copper(II)				[14781-49-8]
		130.7±1	(396.7)	ME	[92/8]
		135.6±1	(298)		[92/8]
		132.7±2.5	(298)	C	[92/8]
$C_{14}H_{16}CuF_6O_4$	*bis*(1,1,1-trifluoro-5-methylhexane-2,4-dione)copper(II)				[33896-35-4]
		122.4±0.9	(298)	ME	[98/32]
$C_{14}H_{28}CuN_2S_4$	*bis*(dipropyldithiocarbamate)copper complex				[14354-08-6]
		158.6±5	(298)		[89/10]
		118.4±3.3			[78/12]
$C_{14}H_{28}CuN_2S_4$	*bis*(diisopropyldithiocarbamate)copper complex				[14354-07-5]
	(440–465)	129.5±2.9	(452.5)		[87/4][78/12]
$C_{16}H_8CuF_6O_6$	*bis*(4,4,4-trifluoro-1-(2-furanyl)butane-1,3-dione)copper(II)				[13928-10-4]
		161.1±2.1	(298)	ME	[98/32]
$C_{16}H_{20}CuF_6O_4$	*bis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)copper(II)				[150026-91-8]
		120.2±1.0	(298)	ME	[98/32]
	(353–379)	102±3	(366)	T	[93/4]
	(381–443)	76.5±2 (liq)	(412)	T	[93/4]
$C_{16}H_{20}CuF_6O_4$	*bis*(1,1,1-trifluoro-5-methylheptane-2,4-dione)copper(II)				[220869-88-5]
		122.5±0.9	(298)	ME	[98/32]
($C_{16}H_{20}F_6O_4Cu$) ($C_{10}H_{20}O_5$)	*bis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)copper(II)-15-crown-5 complex				
	(368–443)	80.2±2 (liq)	(405)	T	[93/4]
$C_{18}H_{12}CuN_2O_2$	*bis*(8-hydroxyquinolinato)copper(II)				[10380-26-6]
		168.7±7.3	(298)	ME	[94/16]
	(478–503)	160.3±3	(491)	ME	[84/12]
		170±3	(298)		[84/12]
$C_{18}H_{14}CuN_4$	dibenzotetra-aza–annulene copper(II) complex				[41283-96-9]
	(493–553)	99.7±8.7	(523)	T	[83/29]
$C_{18}H_{30}CuO_4$	*bis*(2,2-dimethylheptane-3,5-dionato)copper(II)				[15321-96-7]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(344–364)	125.0±1.3	(354)	TE	[95/4]
		127.8±1.3	(298)		[95/4]
	(344–364)	125.1±0.5	(354)	ME	[95/4]
		127.9±0.5	(298)		[95/4]
		122.8±1.7	(298)		[84/11]
$C_{18}H_{30}CuO_4$	*bis*(2,6-dimethylheptane-3,5-dionato)copper(II)				[17653-77-9]
		118.0±347	(298)		[84/11]
$C_{20}H_{12}CuF_6O_4$	*bis*(4,4,4-trifluoro-1-phenylbutane-1,3-dione)copper(II)				[14126-89-7]
		172.1±3.1	(298)	ME	[98/32]
$C_{20}H_{16}CuN_2O_2$	*bis*(8-hydroxy-2-methylquinolinate)copper(II)				[14522-43-1]
	(402–419)	166.5±3.4	(410)	ME	[98/8]
		172.1±3.4	(298)		[98/8]
$C_{20}H_{18}CuO_4$	*bis*(1-phenylbutane-1,3-dionato)copper(II)				[14128-84-8]
	(429–450)	152.2±1.7	(439)	TE	[95/4]
		159.3±1.7	(298)		[95/4]
	(429–450)	152.2±1.9	(439)	ME	[95/4]
		159.3±1.9	(298)		[95/4]
		160±4	(298)	C	[79/21]
$C_{20}H_{20}CuF_{14}O_4$	*bis*(1,1,1,2,2,3,3-hetafluoro-7,7-dimethyloctane-4,6-dionato)copper(II)				[38926-19-1]
		122.8±0.7	(298)	ME	[98/32]
$C_{20}H_{34}CuO_4$	*bis*(2,2,6-trimethylheptane-3,5-dionato)copper(II)				[141752-16-3]
	(346–362)	127.4±0.7	(354)	ME	[95/4]
		130.2±0.7	(298)		[95/4]
	(346–362)	127.8±1.5	(354)	TE	[95/4]
		130.6±1.5	(298)		[95/4]
		129.0±1.3	(351)	ME	[95/4]
		131.7±1.3	(298)		[95/4]
		126.4±1.1	(298)		[84/11]
$C_{22}H_{24}CuN_2O_2$	*bis*[(4-phenylimino-2-pentanoato)]copper(II)				[15214-38-7]
		128.1±0.8	(298)	ME, TE	[90/2]
$C_{22}H_{38}CuO_4$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)copper(II)				[14040-05-2]
	(345–377)	127.6±0.4	(361)	TE	[01/6]
	(335–366)	127.2±1.7	(351)	TE	[01/6]
	(433–463)	120		TGA	[00/35]
	(400–430)	74.8		TGA,DTA	[96/29]
	(392–415)	100	(404)	T	[96/4]
		124.5±0.8	(372)	ME	[95/4]
		129.1±0.8	(298)		[95/4]
	(362–452)	124.6	(407)		[93/9]
	(418–473)	123.6	(445)		[92/18]
		105.9		GS	[90/15]
		111.6			[88/23][93/9]
		122.8±6.5	(298)	C	[84/11]
		112		C	[84/11]
$C_{28}H_{16}CuF_6O_4$	*bis*(4,4,4-trifluoro-1-(2-naphthalenyl)butane-1,3-dione)copper(II)				[30983-56-3]
		208.4.1±4.9	(298)	ME	[98/32]
$C_{32}H_{16}CuN_8$	copper(II) α-phthalocyanine				
		114.0		TGA	[95/35]
$C_{32}H_{16}CuN_8$	copper(II) β-phthalocyanine				[147-14-8]
	(618–713)	231.8±2.1		ME	[00/30]
		211.1		TGA	[95/35]
	(657–863)	266.1			[69/23]
	(657–722)	266.1±5.1		ME	[65/15][70/7]
$C_{39}H_{59}F_{12}O_8CuY$	*bis*(hexafluoroisopropoxy)*tris*(2,2,6,6-tetramethylheptane-3,5-dionato) copper(II)yttrium(III)				[160364-36-3]
	(370–410)	81.2	(390)		[96/7]
$C_{44}H_{28}CuN_4$	5,10,15,20-tetraphenylporphine copper(II)				[14172-91-9]
		160±5		GS	[00/36]
Dy					
$C_{15}H_{15}Dy$	*tris*(cyclopentadienyl)dysprosium(III)				[12088-04-9]
		105.0±2.1			[73/32]
$C_{30}H_{30}DyF_{21}O_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)dysprosium(III)				[18232-98-3]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(370–385)	156.5±2.9		ME	[71/25]
$C_{33}H_{57}O_6Dy$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)dysprosium(III)				[15522-69-7]
	(373–388)	171.5	(380)	ME	[81/21]
	(388–413)	152.7	(400)	ME	[81/21]
	(410–456)	133.5	(433)	BG	[69/19]
$DyBr_3$	dysprosium tribromide				[14456-48-5]
	(878–1151)	289±6.0	(298)	TE	[99/20]
$DyCl_3$	dysprosium trichloride				[10025-74-8]
	(924–1214)	283±5.0	(298)	TE	[99/20]
DyI_3	dysprosium triiodide				[15474-63-2]
	(889–1157)	282±4.0	(298)	TE	[99/20]
Er					
$C_{15}H_{12}ErF_9O_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)erbium(III)				[70332-27-3]
	(473–494)	79.5±11.5	(484)		[96/27]
$C_{15}H_{15}Er$	*tris*(cyclopentadienyl)erbium(III)				[39330-74-0]
	(503–558)	97.2±3.2	(530)		[96/27]
		97.1±3.3			[73/32]
$C_{24}H_{33}Er$	*tris*[(1,2,3,4,5-η)-1-(1-methylethyl)-2,4-cyclopentadien-1-yl]erbium(III)				[130521-76-5]
	(464–502)	78.6±3.0	(483)		[96/27]
$C_{30}H_{30}ErF_{21}O_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)erbium(III)				[17978-75-5]
	(349–362)	154.8±4.2		ME	[71/25]
$C_{33}H_{57}O_6Er$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)erbium(III)				[14319-09-6]
		130.8±2.2	(298)	DSC	[99/33]
	(471–505)	93.9±4.6	(488)		[96/27]
	(363–418)	154.0	(390)	ME	[81/21]
	(358–381)	149.3±1.7		ME	[71/25]
	(410–454)	133.2	(432)	BG	[69/19]
Eu					
$C_{33}H_{57}O_6Eu$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)europium(III)				[15522-71-1]
	(363–433)	179.9	(398)	ME	[81/21]
	(373–423)	180.0		ME	[79/30]
	(430–466)	165.4	(448)	BG	[69/19]
Fe					
$C_2FeN_2O_4$	dicarbonyldinitrosyl iron				[13682-74-1]
	(272–291)	47.2	(281.5)		[87/4]
$C_4FeI_2O_4$	irontetracarbonyl diiodide				[14878-30-9]
		86.0±4.0	(298)		[82/20][79/25]
$C_4H_{16}Cl_2FeN_8S_4$	*trans*-dichloro-*tetrakis*(thiourea)iron(II)				[28813-18-5]
	(372–405)	110±20			[70/11]
$C_6H_5FeIO_3$	allylirontricarbonyl iodide				[12189-10-5]
		84.5±4.0	(298)		[82/20][79/25]
$C_8H_6Fe_2O_6S_2$	hexacarbonyl*bis*(methanethiolato)diiron				[14878-96-7]
		102.8	(333)	C	[95/34]
		109.8	(298)		[95/34]
$C_9Fe_2O_9$	diiron nonacarbonyl				[15321-51-4]
	(296–314)	135.3	(305)		[87/4]
		75.3±21.0	(298)		[82/20][72/21]
$C_9H_{12}FeO$	*bis*(1,3-butadiene)ironcarbonyl				
		76.1±4.2	(298)		[82/20][76/16]
$C_{10}H_{10}Fe$	ferrocene				[102-54-5]
		73.3±0.1	(298)	C	[01/5]
		74.3±0.4	(298)	ME	[95/15]
		73.2±0.7	(298)	C	[95/15]
	(292–300)	72.5±1.0	(296)	ME	[90/3]
		72.4±1.0	(298)		[90/3]
	(294–302)	70.3±1.0	(298)	ME	[89/3][90/3]
	(278–309)	72.1±0.4	(294)	ME	[88/3]
		71.9±0.4	(298)		[88/3]
	(348–446)	64.6	(397)		[87/4]
		75.6±0.4	(298)	TE,ME,DM	[83/6]
		74.0±2	(298)	TE	[81/10]
	(328–398)	70.0±2		C	[80/20]
		72.6±1.4	(298)	ME	[80/24]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		73.6±0.4	(298)		[82/20][75/23]
		74.1±1.7	(298)	TCM	[73/1]
	(385–455)	84.0±2		C	[71/6]
		72.7±2	(298)	ME	[69/4]
		76.6±1	(298)	ME	[62/7]
	(323–367)	83.3		ME	[59/6]
	(357–455)	70.5	(406)	BG	[52/6]
$C_{10}H_{10}Fe_2O_6S_2$	hexacarbonyl*bis*(ethanethiolato)diiron				[28829-01-8]
		105.4	(340)	C	[95/34]
		112.0	(298)		[95/34]
$C_{10}H_{14}FeO_4$	*bis*(2,4-pentanedionato)iron(II)				[14024-17-0]
	(330–368)	131.2±8.7	(298)	ME	[90/21]
		117.6	(385)		[70/10]
$C_{11}H_8FeO_3$	cyclooctatetraeneirontricarbonyl				[12093-05-9]
		87.0±4.0	(298)		[82/20][79/25]
$C_{12}H_{12}FeO$	acetylferrocene				[1271-55-2]
	(329–358)	115.6±2.5	(298)		[81/10]
$C_{12}Fe_3O_{12}$	triiron dodecacarbonyl				[17685-52-8]
		96.0±21.0	(298)		[82/20][72/21]
$C_{13}H_{16}FeO$	*bis*(1,3-cyclohexadiene)ironcarbonyl				[34978-83-1]
		95.0±4.2	(298)		[82/20][76/16]
$C_{14}H_{14}FeO_2$	1,1′-diacetylferrocene				[1273-94-5]
	(360–400)	91.9±2.5	(298)		[81/10]
$C_{15}H_3F_{18}FeO_6$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)iron(III)				[17786-67-3]
	(333–363)	60		TGA	[00/35]
$C_{15}H_{12}F_9FeO_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)iron(III)				[14526-22-8]
	(373–403)	96		TGA	[00/35]
	(378–438)	104.6±0.8		GS	[85/16]
		80.3	(433)		[77/25]
		128.9	(345)		[70/10]
		87.0			[60/17]
$C_{15}H_{21}FeO_6$	*tris*(2,4-pentanedionato)iron(III)				[14024-18-1]
	(413–443)	112		TGA	[00/35]
		118		TGA	[97/29]
	(369–388)	124.6±0.9	(378)	TE,ME	[96/3]
		128.6±0.9	(298)		[96/3]
	(338–355)	114.2±1.5			[92/11]
	(309–360)	126.4±3.1	(298)	ME	[90/21]
		138.4±5.2	(298)	C	[85/5]
		100	(395)	T	[81/15]
		113.6±3.8			[80/30]
		99±0.8			[79/21][81/15]
					[70/17]
		114.2	(385)		[70/10]
		65.3±3.3	(298)		[82/20][68/13]
		U23.4		I	[64/2]
		81.6			[60/17]
$C_{15}H_{30}FeN_3S_6$	*tris*(diethyldithiocarbamoto)iron(III)				[34768-31-5]
		65.7±1.7	(246)		[70/12]
$C_{17}H_{14}FeO$	benzoylferrocene				[1272-44-2]
	(358–382)	116.3±6	(298)	TE,ME	[83/15]
$C_{18}H_{27}FeO_6$	*tris*(3-methylpentane-2,4-dionato)iron(III)				[13978-46-6]
		164.5	(422)		[92/29]
$C_{20}H_{30}Fe$	*bis*(η^5-pentamethylcyclopentadienyl)iron				[12126-50-0]
		96.8±0.6	(298)	C	[01/5]
$C_{24}H_{12}F_9FeO_6S_3$	*tris*(1-(2-thenoyl)-4,4,4-trifluoro-1,3-butanedione)ironIII)				[14319-78-9]
		U46.4			[60/17]
$C_{24}H_{18}FeO_2$	1,1′-dibenzoylferrocene				[12180-80-2]
	(358–381)	109.3±6	(298)	TE,ME	[83/15]
$C_{30}H_{27}FeO_6$	*tris*(benzoylacetonato)iron(III)				[14323-17-2]
		U45.6		I	[64/2]
$C_{33}H_{57}FeO_6$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)iron(III)				[14876-47-2]
	(413–443)	111		TGA	[00/35]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(360–378)	128.5±0.9	(369)	TE,ME	[96/3]
		129.3±1.2	(298)		[96/3]
	(316–330)	136.1±1.9			[92/11]
		106.7		ME	[73/18]
$C_{45}H_{33}FeO_6$	*tris*(dibenzoylmethano)iron(III)				[14405-49-3]
		210±10			[92/11]
		U31.8		I	[64/2]
$FeBr_2$	iron(II) dibromide				[7789-46-0]
	(655–833)	197.6±5	(744)	TE,ME	[96/26]
		208±5	(298)		[96/26]
	(680–720)	196±8	(700)	TE	[60/23][96/26]
	(673–962)	197±2	(817)	GS	[55/12][96/26]
		210±6	(298)		[55/12][96/26]
	(623–718)	197±4	(670)	ME	[55/12][96/26]
$FeCl_2$	iron(II) dichloride				[7758-94-3]
	(693–866)	198.9±6	(780)	TE,ME	[96/26]
		204±6	(298)		[96/26]
	(694–745)	189±8	(719)	TE	[60/23][96/26]
	(621–658)	186±12	(640)	MS	[58/22][96/26]
		193±12	(298)		[58/22][96/26]
FeF_2	iron(II) difluoride				[7789-28-8]
	(958–1178)	263±4	(1068)	TE,ME	[96/26]
		271±4	(298)		[96/26]
	(848–1142)	263±3	(995)	ME	[76/22][96/26]
		270±3	(298)		[76/22][96/26]
Ga					
C_3H_9Ga	trimethyl gallium				[1445-79-0]
	(247–257)	45.2	(252)		[87/4]
$C_{15}H_3F_{18}GaO_6$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)gallium(III)				[19648-92-1]
	(333–363)	53		TGA	[00/35]
$C_{15}H_{12}F_9GaO_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)gallium(III)				[15453-83-5]
	(373–403)	75		TGA	[00/35]
	(378–433)	118.8±1.7		GS	[85/16]
	(386–401)	89.4±6.7			[78/27]
$C_{15}H_{21}GaO_6$	*tris*(pentane-2,4-dionato)gallium(III)				[14405-43-7]
	(413–433)	90		TGA	[00/35]
$C_{16}H_{36}Ga_4S_4$	$[((CH_3)_3C)Ga(\mu^3-S)]_4$				[135283-83-9]
	(367–380)	110	(373)	TGA	[97/29]
$C_{16}H_{36}Ga_4Se_4$	$[((CH_3)_3C)Ga(\mu^3-Se)]_4$				[13528-84-0]
	(375–388)	119	(381)	TGA	[97/29]
$C_{16}H_{36}Ga_4Te_4$	$[((CH_3)_3C)Ga(\mu^3-Te)]_4$				[135258-40-1]
	(391–422)	131	(406)	TGA	[97/29]
$C_{20}H_{44}Ga_4S_4$	$[(C_2H_5(CH_3)_2C)Ga(\mu^3-S)]_4$				[166331-96-0]
	(369–382)	124	(375)	TGA	[97/29]
$C_{20}H_{44}Ga_4Se_4$	$[(C_2H_5(CH_3)_2C)Ga(\mu^3-Se)]_4$				[176100-40-6]
	(395–407)	137	(375)	TGA	[97/29]
$C_{20}H_{44}Ga_4Te_4$	$[(C_2H_5(CH_3)_2C)Ga(\mu^3-Te)]_4$				[176100-41-7]
	(416–432)	140	(324)	TGA	[97/29]
$C_{24}H_{52}Ga_4S_4$	$[((C_2H_5)_2(CH_3)C)Ga(\mu^3-S)]_4$				[166331-97-1]
	(407–420)	137	(413)	TGA	[97/29]
$C_{24}H_{52}Ga_4Se_4$	$[((C_2H_5)_2(CH_3)C)Ga(\mu^3-Se)]_4$				[187612-49-3]
	(388–420)	147	(404)	TGA	[97/29]
$C_{24}H_{52}Ga_4Te_4$	$[((C_2H_5)_2(CH_3)C)Ga(\mu^3Te)]_4$				[176100-42-8]
	(432–447)	151	(439)	TGA	[97/29]
$C_{28}H_{60}Ga_4S_4$	$[((C_2H_5)_3C)Ga(\mu^3-S)]_4$				[187612-47-1]
	(432–444)	149	(438)	TGA	[97/29]
$C_{28}H_{60}Ga_4Se_4$	$[((C_2H_5)_3C)Ga(\mu^3-Se)]_4$				[187612-51-7]
	(452–464)	156	(458)	TGA	[97/29]
$C_{28}H_{60}Ga_4Te_4$	$[((C_2H_5)_3C)Ga(\mu^3-Te)]_4$				[187612-52-8]
	(444–456)	156	(450)	TGA	[97/29]
$C_{33}H_{57}O_6Ga$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)gallium(III)				[34228-15-4]
	(413–443)	87		TGA	[00/35]
		102.1		ME	[73/18]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
$(GaBr_3)-(NH_3)$	gallium tribromide–ammonia complex				[54955-92-9]
		67.4± 1.3			[75/27]
$(GaCl_3)-(NH_3)$	gallium trichloride–ammonia complex				[50599-24-1]
		75.6± 1.3			[75/27]
Gd					
$C_{10}H_{10}ClGd$	*bis*(cyclopentadienyl)gadolinium chloride				[11087-14-2]
	(338–438)	138.5± 2.1		ME	[71/32]
$C_{15}H_{15}Gd$	*tris*(cyclopentadienyl)gadolinium				[1272-21-5]
	(513–623)	106.7± 2.9			[73/31]
$C_{30}H_{30}F_{21}GdO_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)gadolinium(III)				[17631-67-3]
	(362–385)	154.8± 0.8		ME	[71/25]
$C_{33}H_{57}O_6Gd$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)gadolinium(III)				[14768-15-1]
		166.1± 3.5	(298)	DSC	[99/33]
		78.8± 1.5			[96/31][00/16]
	(383–418)	181.2	(400)	ME	[81/21]
		163.6		ME	[73/18]
	(420–456)	161.3	(438)	BG	[69/19]
Ge					
C_3H_9FGe	fluorotrimethylgermane				[661-370-0]
	(250–284)	40.0	(267)	SG	[87/4][61/9]
$C_8H_{24}Ge_4O_4$	octamethyltetragermoxane				
		68.2± 4.2	(298)		[82/20][72/19]
$C_{16}H_{12}Ge$	diethynyldiphenylgermane				[1675-59-8]
		133.9		BE	[75/28]
$C_{16}H_{18}Ge$	1,1-diphenylgermolane				[4514-06-1]
		104.6± 2.8	(298)	B	[88/31]
$C_{20}H_{18}Ge$	triphenyl vinylgermanium				[4049-97-2]
		98.7± 1.6	(298)	ME,TE	[88/8]
$C_{24}H_{20}Ge$	tetraphenylgermane				[1048-05-1]
	(402–480)	148.6	(441)		[87/4]
		156.9± 4.2	(298)		[82/20][69/17]
$C_{26}H_{20}Ge$	triphenyl phenylethynylgermane				[4131-49-1]
		107.5± 1.5	(298)	ME,TE	[88/8]
$C_{28}H_{28}Ge$	tetrabenzylgermane				[1048-05-1]
		168.6± 8.4	(298)		[82/20][70/15]
$C_{32}H_{16}Cl_2GeN_8$	germanium phthalocyanine dichloride				[19566-97-3]
		147.4± 12.4			[72/31]
$C_{36}H_{30}Ge_2O$	*bis*(triphenyl germanium) oxide				[2181-40-0]
		98.0± 1.5	(298)	ME,TE	[88/8]
$C_{36}H_{30}Ge_2$	hexaphenyldigermane				[2816-39-9]
		209.2± 4.2	(298)		[82/20][70/15]
$GeCl_4$	germanium tetrachloride				[10038-98-9]
	(187–221)	44.6± 0.2		MG	[64/12]
GeF_2	germanium difluoride				[13940-63-1]
		82.8± 4.2	(298)	MS	[71/26]
		93.3± 10.5	(298)		[71/26]
GeI_4	germanium tetraiodide				[13573-08-5]
		87.1± 3	(298)		[99/14]
		86.7± 3	(298)		[99/14]
	(323–420)	76.5± 5.7	(298)	TE	[87/22]
Ha					
$HaCl_5$	hahnium(V) pentachloride				[146837-09-4]
		⩽120	(298)		[96/25]
$HaOCl_3$	hahnium(V) oxychloride				[143928-41-0]
	(298–607)	152± 18	(298)		[96/25]
Hf		107.3± 2.4	(298)		[68/19][01/3]
$C_{10}H_{10}Cl_2Hf$	*bis*(cyclopentadienyl)hafnium dichloride				[12116-66-4]
		110.2± 2.9	(298)	ME	[01/3]
	(394–447)	100.3	(420.5)		[87/4]
		106.7± 2.1	(298)		[82/20][76/14]
		100.4± 1.3			[77/23]
$C_{20}H_{16}F_{12}HfO_8$	*tetrakis*(1,1,1-trifluoro-2,4-pentanedionato)hafnium(IV)				[17475-68-2]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(383–438)	129.7±3.8		GS	[85/16]
	(383–438)	124.7±3.8		GS	[85/16]
$C_{20}H_{28}HfO_8$	*tetrakis*(pentane-2,4-dionato)hafnium(IV)				[17475-67-1]
		150.6±4.2			[91/23]
$HfCl_4$	hafnium tetrachloride				[13499-05-3]
	(398–500)	97.9±1.2	(499)	T	[94/22]
	(353–433)	107.9±0.8			[73/30]
Hg					
CH_3BrHg	methylmercuric bromide				[506-83-2]
	(258–297)	67.6±1.6	(277.5)	V	[87/4][51/14]
CH_3ClHg	methylmercuric chloride				[115-09-3]
	(278–307)	64.9±1.6	(298)	V	[87/4][82/20]
					[50/6][51/14]
CH_3HgI	methylmercuric iodide				[143-36-2]
	(263–290)	65.3±1.6	(276)	V	[51/14]
C_2H_5BrHg	ethylmercuric bromide				[107-26-6]
	(285–303)	76.5±2.9	(294)	V	[87/4][82/20]
					[51/10][51/14]
C_2H_5ClHg	ethylmercuric chloride				[107-27-7]
	(283–303)	76.2±2.9	(293)	V	[87/4][82/20]
					[51/10][51/14]
C_2H_5HgI	ethylmercuric iodide				[2440-42-8]
	(286–303)	79.7±2.9	(294.5)	V	[87/4][82/20]
					[51/10][51/14]
$C_4H_{16}Cl_2HgN_8S_4$	*trans*-dichloro-*tetrakis*(thiourea)mercury(II)				[28813-22-1]
		101±20			[70/11]
$C_{10}H_{14}Cl_2HgN_6O_2$	[mercury(1-methylcytosine)$_2$Cl$_2$]				
	(428–443)	150.8±19	(435)	ME	[84/12]
		159±19	(298)		[84/12]
$C_{10}H_{20}HgN_2S_4$	*bis*(diethyldithiocarbamate) mercury complex				[14239-51-1]
	(378–403)	47.6	(390.5)		[87/4]
$C_{12}H_{12}Hg$	diphenylmercury				[587-85-9]
	(314–303)	112.8±0.8	(298)	ME	[58/9]
$C_{14}H_{14}Hg$	*bis*(benzyl)mercury				[780-24-5]
	(350–390)	88.7±2.1		ME,TE	[84/19]
$C_{14}H_{28}HgN_2S_4$	*bis*(dipropyldithiocarbamate)mercury(II)				[21439-56-5]
		200±2	(298)	DSC,E	[92/19]
$C_{16}H_{10}Hg$	*bis*(phenylethynyl)mercury				[6077-10-7]
	(350–390)	99.2±1.4		ME,TE	[84/19]
$C_{18}H_{36}HgN_2S_4$	*bis*(dibutyldithiocarbamate)mercury(II)				[21439-58-7]
		193±3	(298)	DSC,E	[91/15]
$C_{18}H_{36}HgN_2S_4$	*bis*(diisobutyldithiocarbamate)mercury(II)				[79001-48-2]
		247±1	(298)	DSC,E	[94/33]
Ho					
$C_{15}H_{15}Ho$	*tris*(cyclopentadienyl)holmium(III)				[1272-22-6]
		102.1±2.1			[73/32]
	(338–348)	119.7±2.1		ME	[71/32][71/33]
$C_{33}H_{57}HoO_6$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)holmium(III)				[15522-73-3]
		131.0±2.9		DSC	[93/26]
	(363–418)	152.7	(390)	ME	[81/21]
	(420–458)	131.4	(439)	BG	[69/19]
In					
C_3H_9In	trimethyl indium				[3385-78-2]
		48.5±2.5	(298)		[82/20][68/11]
	(328–362)	57.7	(344)		[87/4][41/4]
$C_{15}H_{12}F_9InO_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)indium(III)				[15453-87-9]
	(378–428)	112.1±1.3		GS	[85/16]
	(398–478)	77.4±0.6 (liq)			[78/27]
$C_{15}H_{30}InN_3S_6$	*tris*(diethyldithiocarbamate)indium(III)				[15741-07-8]
		176.7±3.3	(298)	DSC,E	[00/13]
$C_{20}H_{48}In_2P_4$	*bis*[μ-[*bis*(1,1-dimethylethyl)phosphino)]]tetramethyldiindium(III)				[115381-28-7]
		130.0		ME	[88/20]
$C_{21}H_{42}InN_3S_6$	*tris*(dipropyldithiocarbamate)indium(III)				[87052-01-5]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		372.8±3.4	(298)	DSC,E	[00/13]
$C_{21}H_{42}InN_3S_6$	*tris*(diisopropyldithiocarbamate)indium(III)				[85883-33-6]
		279.5±3.5	(298)	DSC,E	[00/13]
$C_{27}H_{54}InN_3S_6$	*tris*(dibutyldithiocarbamate)indium(III)				[23467-56-3]
		358.3±3.2	(298)	DSC,E	[00/13]
$C_{27}H_{54}InN_3S_6$	*tris*(diisobutyldithiocarbamate)indium(III)				[85129-27-7]
		182.0±3.3	(298)	DSC,E	[00/13]
$C_{33}H_{57}InO_6$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)indium(III)				[34269-03-9]
		129.3		ME	[73/18]
$InBr_3$	indium(III) bromide				[13465-09-3]
		147±4	(298)	TE	[97/23]
$InCl_3$	indium(III) chloride				[10025-82-8]
	(495–648)	152±4	(570)	TE	[98/35]
		158±4	(298)		[98/35]
		150.4	(710)		[94/37]
		161.1	(298)		[94/37][98/35]
	(453–572)	151.1±1.2	(489)	MS	[88/30]
		155.6±1.2	(298)		[88/30][98/35]
	(478–563)	161.1±1.6	(524)		[88/30]
		168.5±1.6	(298)		[88/30][98/35]
	(623–773)	156.3	(698)		[74/29]
		166.6	(298)		[74/29][98/35]
InI_3	indium(III) iodide				[13510-35-5]
	(399–479)	136±5.0	(298)	TE,ME	[97/22]
Ir					
$C_7H_7IrO_4$	dicarbonyl-2,4-pentanedionato iridium complex				[14023-80-4]
	(286–325)	92.±1.3	(306)	ME	[78/20][87/4]
$C_7H_{13}Cl_2IrO_2$	*bis*(chloroethylene)-2,4−pentanedionato iridium complex				
	(281–298)	89.5±4.2	(290)	ME	[78/20][87/4]
$C_9H_{15}IrO_2$	*bis*(ethylene)-2,4-pentanedionato iridium complex				[52654-27-0]
	(283–311)	82.8±4.2	(297)	ME	[78/20][87/4]
$C_{11}H_{19}IrO_2$	*bis*(propylene)-2,4-pentanedionato iridium complex				[66467-05-8]
	(269–304)	90±1.3	(287)	ME	[78/20][87/40]
$C_{12}O_{12}Ir_4$	tetrairidiumdodecacarbonyl				[11065-24-0]
		104.6±20	(298)		[82/20][74/26]
$C_{13}H_{19}IrO_6$	*bis*(vinyl acetate)-2,4-pentanedionato iridium complex				[66467-07-0]
	(325–344)	120.5±2.9	(333)	ME	[78/20]
$C_{13}H_{19}IrO_6$	*bis*(methyl acrylate)-2,4-pentanedionato iridium complex				[66467-08-1]
	(311–335)	117.2±5	(323)	ME	[78/20]
$C_{15}H_{21}IrO_6$	*tris*(2,4-pentanedionato)iridium(III)				[15635-87-7]
	(423–473)	129.3±0.8		GS	[00/12]
	(383–433)	130.5±3.4		ME	[00/12]
	(387–513)	101.6±1.8		MCV	[00/12]
	(468–518)	86.6±1.7		SMZG	[00/12]
		NA			[94/34]
La					
$C_{15}H_{15}La$	*tris*(cyclopentadienyl)lanthanum				[1272-23-7]
		114.6±4.0	(298)		[82/20][74/23]
	(548–663)	102.1±2.9			[73/31]
$C_{30}H_{30}F_{21}LaO_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)lanthanum(III)				[19106-89-9]
	(387–403)	145.2±2.9		ME	[71/25]
$C_{33}H_{57}LaO_6$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)lanthanum(III)				[14319-13-2]
		156.0±4.6		DSC	[97/3][00/16]
		116.1±8.4			[96/17]
		107.9±4.6			[96/31][00/16]
	(388–423)	179.5	(405)	ME	[81/21]
		164.4		ME	[73/18]
	(450–520)	143.6	(485)	BG	[69/19]
Li					
C_2H_5Li	ethyl lithium				[811-49-4]
	(298–333)	116.6	(315.5)		[87/4][62/9]
C_4H_9Li	butyl lithium				[109-72-8]
	(333–368)	109.7	(350.5)		[87/4][62/12]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
$C_{11}H_{19}LiO_2$	(2,2,6,6-tetramethylheptane-3,5-dionato)lithium				
		174.5		ME	[73/18]
LiF	lithium fluoride				[7789-24-4]
	(1073–1121)	268.2±4.2			[59/18][58/20]
	(957–1113)	267.8±4.2			[58/21]
Lu					
$C_{15}H_{15}Lu$	*tris*(cyclopentadienyl)lutetium(III)				[1272-24-8]
		123.0±2.9			[73/32]
$C_{15}H_{21}LuO_6$	*tris*(2,4-pentanedionato)lutetium(III)				[17966-84-6]
	(403–433)	79±13	(418)		[83/22]
$C_{33}H_{57}O_6Lu$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)lutetium(III)				[15497-45-2]
		135.8±2.9	(298)	DSC	[99/33]
	(363–413)	154.8	(390)	ME	[81/21]
	(420–448)	134.2	(434)	BG	[69/19]
Mg					
$C_{10}H_{10}Mg$	*bis*(cyclopentadienyl) magnesium				[1284-72-6]
		68.2±1.3	(298)		[82/20][67/9]
					[67/17]
$C_{10}H_{22}Mg$	*bis*(2,2-dimethylpropyl)magnesium				[19978-31-5]
	(318–348)	160.0±2.0	(333)	ME	[83/19]
$C_{18}H_{12}MgN_2O_2$	*bis*(8-hydroxyquinolinato)magnesium(II)				[14639-28-2]
		230.2±4.0	(298)	ME	[94/16]
$C_{20}H_{16}MgN_2O_2$	*bis*(8-hydroxy-2-methylquinolinate)magnesium(II)				[14406-92-9]
	(533–549)	212.2±6.5	(541)	ME	[98/8]
		224.3±6.5	(298)		[98/8]
MgF_2	magnesium fluoride				[7783-40-6]
	(1220–1450)	359.8	(1330)	MS	[62/10]
	(1273–1513)	327.3±4.3	(1400)	TE	[64/13]
		348.2±4.3	(298)		[64/13]
Mn					
$C_4H_{16}Cl_2MnN_8S_4$	*trans*-dichloro-*tetrakis*(thiourea)manganese(II)				[28813-17-4]
	(382–409)	133±20			[70/11]
C_5BrMnO_5	bromo(pentacarbonyl)manganese				[14516-54-2]
		58.6±8.4	(298)		[82/20][72/21]
		88.0±2.0	(298)	C	[82/21]
C_5ClMnO_5	chloro(pentacarbonyl)manganese				[14100-30-2]
		58.6±8.4	(298)		[82/20][72/21]
		91±9			[82/21]
C_5IMnO_5	iodo(pentacarbonyl)manganese				[14879-42-6]
		77.4±1.4	(298)	C	[82/21]
$C_6F_3MnO_5$	pentacarbonyl(trifluoromethyl)manganese				[13601-14-4]
		77.8±1.0	(298)	C	[82/21]
$C_6H_3MnO_5$	methyl(pentacarbonyl)manganese				[13601-24-6]
		60.3±1.0			[82/20][74/25]
	(293–403)	60.2			[58/7]
$C_7F_3MnO_6$	pentacarbonyl(trifluoroacetyl)manganese				[14099-62-8]
		79±5	(298)	C	[82/21]
$C_7H_3MnO_6$	acetyl(pentacarbonyl)manganese				[13963-91-2]
		80±7	(298)	C	[82/21]
$C_8H_5MnO_3$	cyclopentadienyl(tricarbonyl)manganese				[12079-65-1]
		52.4±3.1			[82/20][65/12]
$C_8H_{10}Cl_2MnN_6O_2$	[manganese-(cytosine)$_2$Cl$_2$]				[74543-44-5]
	(433–453)	U 146±21	(443)	ME	[84/12]
$C_{10}MnO_{10}$ Re	decacarbonylmanganeserhenium				[14693-30-2]
		109±4	(363)	C	[98/33]
		86±4	(298)		[98/33]
	(363–440)	68.6	(401)	MM	[71/20]
$C_{10}Mn_2O_{10}$	decacarbonyldimanganese				[10170-69-1]
		80.3±4.2	(298)		[82/20][58/10]
		92.3±2.1	(298)	C	[82/21]
	(351–428)	80.3±2.1	(390)	MM	[71/20]
		62.8±4.2			[60/15]
$C_{10}H_6Mn_2O_8S_2$	*bis*(μ-methanethiolato)octacarbonyldimanganese				[21321-38-0]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		114.2±0.8	(340)	C	[95/18]
$C_{10}H_{10}Mn$	*bis*(cyclopentadienyl)manganese complex				[1271-27-8]
	(298–445)	72.4	(371.5)		[87/4]
		75.7±1.7	(298)		[82/20][71/22]
		72.4			[56/11]
$C_{10}H_{14}MnO_4$	*bis*(2,4-pentanedionato) manganese(II)				[14024-58-9]
	(390–440)	139.3±2.5	(298)	ME	[90/21]
		87	(343)		[81/15]
		88.7			[72/24]
		88.7	(400)		[70/10]
$C_{11}H_5MnO_5$	phenyl(pentacarbonyl)manganese				[13985-77-8]
		84.9±4.4	(298)	C	[82/21]
$C_{12}H_5MnO_6$	benzoyl(pentacarbonyl)manganese				[15612-92-7]
		123±3	(298)	C	[82/21]
$C_{12}H_7MnO_5$	benzyl(pentacarbonyl)manganese				[14049-86-6]
		84.5±0.7	(298)	C	[82/21]
$C_{15}H_{12}F_9MnO_6$	*tris*(1,1,1-trifluoro-2,4-pentanedionato) manganese(III)				[14526-24-0]
	(378–413)	120.5±9.2		GS	[85/16]
		117.3			[71/17]
		77.8			[64/4]
$C_{15}H_{21}MnO_6$	*tris*(2,4-pentanedionato) manganese(III)				[14284-89-0]
	(320–380)	124.7±3.8	(298)	ME	[90/21]
		120±10	(298)	E	[88/28]
		99	(392)		[81/15]
		113.0	(370)		[70/10]
		77.8±0.8	(298)		[82/20][68/12]
$C_{18}H_{12}MnN_2O_2$	*bis*(8-hydroxyquinolinato) manganese(II)				[14495-13-7]
		194.6±10.4	(298)	ME	[94/16]
	(615–650)	208.4±14	(633)	ME	[84/12]
		226±14	(298)		[84/12]
$C_{20}H_{16}MnN_2O_2$	*bis*(8-hydroxy-2-methylquinolinate)manganese(II)				[14515-78-7]
	(521–541)	199.6±7.2	(531)	ME	[98/8]
		211.2±7.2	(298)		[98/8]
$C_{30}H_{27}MnO_6$	*tris*(1-phenylbutane-1,3-dionato)manganese(III)				[14376-07-9]
		195±10	(298)	E	[88/28]
$C_{33}H_{57}MnO_6$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)manganese(III)				[14324-99-3]
		140±10	(298)	E	[88/28]
$C_{44}H_{28}MnN_4$	5,10,15,20-tetraphenylporphine manganese (II)				[31004-82-7]
		175±1		UV	[93/27]
MnF_2	manganese(II) fluoride				[7782-64-1]
		318.4±8.4	(298)	ME	[64/18]
Mo					
C_6MoO_6	molybdenum hexacarbonyl				[13939-06-5]
	(265–300)	77.7			[00/33]
	(316–423)	69.1	(331)		[87/4]
	(240–285)	76.9±0.9	(263)	ME	[79/19][80/34]
		73.8±1.0			[75/22][74/24]
	(343–383)	69.7	(363)		[60/18]
	(323–403)	72.5			[52/7]
	(292–308)	72.8			[47/5]
		68.2			[35/2]
$C_7H_3MoNO_5$	acetonitrile molybdenum pentacarbonyl				[17594-16-0]
	(260–279)	105.8±5.6	(298)		[80/31]
$C_8F_{12}Mo_2O_8$	dimolybdenum tetratrifluoroacetate				[36608-07-8]
	(330–370)	113.6±1.7	(350)	ME,TE	[84/20]
$C_8H_{12}CrMoO_8$	chromium molybdenum tetraacetate				[71561-64-3]
		165.0±8.4			[82/20]
$C_8H_{12}Mo_2O_8$	dimolybdenum tetraacetate				
	(400–420)	170.5±7	(410)	ME,TE	[84/20]
$C_8H_{12}Mo_2O_8$	tetra-μ-acetatodimolybdenum(II)				[14221-06-8]
		165.0±8.4	(298)		[82/20][79/23]
$C_8H_{24}MoN_4$	*tetrakis*(dimethylamino)molybdenum				[100207-68-9]
		72.4±6	(298)	C	[79/18][82/20]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_9H_9MoN_3O_3$	*tris*(acetonitrile) molybdenum tricarbonyl				[15038-48-9]
	(283–308)	111.3±3.0	(298)		[80/31]
		96.0±10.0	(298)		[82/20][78/25]
$C_{10}H_5MoNO_5$	pyridine(pentacarbonyl)molybdenum				[14324-76-6]
	(283–299)	102.0±2.0	(291)	ME	[79/19]
$C_{10}H_8MoO_3$	cycloheptatriene(tricarbonyl)molybdenum				[12125-77-8]
		88.0±4.0	(298)		[82/20][77/22]
$C_{10}H_{10}Cl_2Mo$	dichloro*bis*(η^5-2,4-cyclopentadien-1-yl)molybdenium				[12184-22-4]
		100.4±4.2	(298)	E	[76/20]
$C_{10}H_{10}I_2Mo$	*bis*(η^5-2,4-cyclopentadien-1-yl)diiodomolybdenium				[12184-29-1]
		100.4±4.2	(298)	E	[76/20]
$C_{10}H_{11}MoNO_5$	piperidine(pentacarbonyl)molybdenum				[19456-57-6]
	(275–289)	121.9±5.1	(282)	ME	[79/19]
$C_{10}H_{12}Mo$	*bis*(η^5-2,4-cyclopentadien-1-yl)dihydromolybdenium				[1291-40-3]
		81.4±1.0		ME	[90/30]
		92.5±2.1			[76/20]
$C_{11}H_8MoO_4$	norbornadienemolybdenumtetracarbonyl				[12146-37-1]
		92.0±4.0	(298)		[82/20][77/22]
$C_{12}H_{12}Mo$	dibenzene molybdenum				[12129-68-9]
		94.6±8			[70/1][61/4]
$C_{12}H_{16}Mo$	dimethyldicyclopentadienylmolybdenum				[39333-52-3]
		70.4±4.2	(298)		[82/20][80/37]
$C_{12}H_{36}Mo_2N_6$	*hexakis*(dimethylamine)dimolybdenum(II)				[51956-20-8]
		111±8	(298)	C	[79/18][81/16]
$C_{14}H_{20}Mo_2O_8$	di-μ-acetato*bis*(pentane-2,4-dionato)dimolybdenum(II)				
		163.0±5.0	(298)		[82/20][79/23]
$C_{16}H_{14}Mo_2N_2O_4$	di(6-methyl-2-hydroxypyridyl)diacetatodimolybdenum(II)				
		161.0±4.0	(298)		[82/20][81/18]
$C_{18}H_{15}MoN_3O_3$	*tris*(pyridine)tricarbonylmolybdenum				[15279-79-5]
		142.0±10.0	(298)		[82/20][78/25]
$C_{18}H_{42}Mo_2O_6$	*hexakis*(isopropoxy)dimolybdenum				[62521-20-4]
		113±10	(298)	C	[81/16]
$C_{24}H_{24}Mo_2N_4O_4$	*tetrakis*(6-methyl-2-hydroxypyridyl)dimolybdenum(II)				[67634-80-4]
		157.0±3.0	(298)		[82/20][81/18]
$C_{24}H_{56}Mo_2O_8$	*octakis*(isopropoxy)dimolybdenum(II)				[79376-50-4]
		137.0±15	(298)	C	[81/16]
N					
NH_3	ammonia				[7664-41-7]
	(177–195)	31.2			[37/4]
NH_3O	hydroxylamine				[7803-49-8]
	(261–280)	64.2			[65/18]
	(273–298)	U46.5	(285)		[41/5]
NH_4Br	ammonium bromide				[12124-97-9]
		183.7	(550)	I	[71/28]
		187.9	(298)		[55/11]
NH_4Cl	ammonium chloride				[12125-02-9]
		168.6	(550)	I	[71/28]
	(308–363)	176.6±0.4		TE	[61/7]
		177.0	(298)		[55/11]
NH_4I	ammonium iodide				[12027-06-4]
		182.0	(298)		[55/11]
NH_4CN	ammonium cyanide				
		84.5	(298)		[55/11]
NH_4SCN	ammonium thiocyanate				[1762-95-4]
		133.9	(298)		[55/11]
NO	nitric oxide				[10102-43-9]
	(94–109)	16.6	(101)		[29/2]
N_2H_4	hydrazine				[302-01-2]
		U 46.0			[41/2][01/8]
$N_2H_4O_2S$	sulfamide				[7803-58-9]
	(347–358)	101.5±1.0			[97/32][59/12]
$N_2H_4O_3$	ammonium nitrate				[6484-52-2]
	(349–438)	178.7			[62/11]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
		174.9	(298)		[55/11]
N_2O	nitrous oxide				[10024-97-2]
	(68–80)	25.1± 0.4	(74)	LE	[74/13]
	(148–182)	24.6	(161)		[35/5]
	(103–123)	23.6	(113)	MG	[30/5]
Na					
C_4H_9ONa	sodium *tert*-butoxide				[865-48-5]
		NA			[90/22]
$C_6H_{13}ONa$	sodium methyldiethylmethoxide				[67638-48-6]
		NA			[90/22]
$C_7H_{15}ONa$	sodium triethylmethoxide				[53535-82-3]
		NA			[90/22]
$C_{32}H_{40}F_{12}NaO_8Pr$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-praseodymate				[93557-93-8]
	(423–483)	155± 2	(453)	T	[93/4]
$C_{32}H_{40}F_{12}NaO_8Tb$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-terbate				[12576-88-4]
	(418–473)	163± 3	(445)	T	[93/4]
$C_{32}H_{40}F_{12}NaO_8Y$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-yttrate				[12576-89-5]
	(418–503)	130± 3	(460)	T	[93/4]
	(463–503)	142± 12	(483)		[93/4]
Nb					
$C_5H_{15}NbO_5$	niobium pentamethoxide				[1066-25-7]
		80.3± 10.5		ME,E	[72/23][77/21]
$C_{10}H_{10}Cl_2Nb$	*bis*(cyclopentadienyl)niobium dichloride				[12793-14-5]
		127.4± 4.4	(298)	ME	[01/3]
$NbBr_5$	niobium(V) pentabromide				[13478-45-8]
	(298–479)	115± 18	(298)		[96/25]
		112.5	(298)		[96/25][91/22]
$NbCl_5$	niobium(V) pentachloride				[10026-12-7]
	(298–479)	94.0	(298)		[96/25][91/22]
		95± 16	(298)		[96/25]
$NbCl_3O$	niobium(V) oxychloride				[113597-20-1]
	(298–607)	128.5	(298)		[96/25][91/22]
		124± 16	(298)		[96/25]
Nd					
$C_{15}H_{15}Nd$	*tris*(cyclopentadienyl)neodymium(III)				[1273-98-9]
	(533–633)	108.8± 3.8			[73/31]
	(338–438)	134.7± 2.1		ME	[71/32][71/33]
$C_{30}H_{30}F_{21}NdO_6$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)neodymium(III)				[17978-76-6]
	(387–402)	155.2± 2.9		ME	[71/25]
$C_{33}H_{57}O_6Nd$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)neodymium(III)				[15492-47-4]
		159.1± 3.4	(298)	DSC	[99/33]
		92.9± 2.5			[96/31][00/16]
	(378–423)	177.0	(400)	ME	[81/21]
	(430–491)	158.4	(460)	BG	[69/19]
Ni					
$C_4H_{16}Cl_2N_8NiS_8$	*trans*-dichloro-*tetrakis*(thiourea)nickel(II)				[28813-19-6]
	(409–447)	74± 20			[70/11]
C_4NiO_4	nickel tetracarbonyl				[13463-39-3]
		41.6± 0.5			[53/9]
$C_6H_{12}N_2NiS_4$	*bis*(dimethyldithiocarbamato) nickel complex				[15521-65-0]
	(448–478)	139.9± 2.1	(463)		[87/4][78/12]
		151.9± 2.1		GC	[76/21]
$C_8F_{18}NiO_2P_2$	dicarbonyl*bis*[*tris*(trifluoromethyl)phosphine]nickel				[15188-79-1]
	(293–302)	47.2	(298)		[66/15]
$C_8F_{28}NiP_4$	*tetrakis*[*bis*(trifluoromethyl)phorphinous fluoride]nickel				[14917-18-1]
	(305–331)	66.6	(318)		[66/15]
$C_{10}H_8F_6NiO_4$	*bis*(1,1,1-trifluoro-2,4-pentanedionato)nickel(II)				[14324-83-5]
	(416–473)	157.7± 3.3		GS	[85/16]
$C_{10}H_{10}Ni$	*bis*(cyclopentadienyl) nickel				[1271-28-9]
		71.5± 0.6			[88/3]
		70.2± 1.5	(298)		[84/24]
	(353–419)	72.4± 1.3	(298)	MM	[82/20][75/23] [67/17]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Molecular formula/polymorph	Temperature range (K)			Method	Reference
$C_{10}H_{14}NiO_4$	*bis*(2,4-pentanedionato)nickel(II)				[3264-82-2]
	(357–420)	126.4±4.4	(298)	ME	[90/21]
		108.2±5	(207)	DSC	[87/13]
		108.2±4.9	(480)	DSC	[87/12]
		155±80	(298)	C	[85/5]
	(378–403)	127.7±10	(381)	ME	[84/12]
		132±10	(298)	ME	[84/12]
		69.0		I	[71/17]
		95.4	(400)		[70/10]
		69.0			[60/17]
$C_{10}H_{20}N_2NiS_4$	*bis*(diethyldithiocarbamato)nickel(II)				[14267-17-5]
	(448–478)	157.3±6.0		C	[89/16]
	(440–478)	152±0.8	(459)		[87/4][78/12]
	(507–650)	98.8±6	(579)	DSC	[79/20]
	(443–543)	91.9±6	(493)	DSC	[79/20]
		151.9±2.1			[76/21]
		61.1±1.7		I	[69/15]
$C_{12}H_8N_2NiO_4$	*bis*(picolinato)nickel(II)				
		76.6		I	[63/7]
$C_{13}H_6F_{24}N_2Ni_2O_3P_4$	μ-carbonyldicarbonyl*bis*[μ-[(methylimino)*bis*[*bis*(trifluoro-methyl)phophine]]]dinickel				[14402-98-3]
	(370–390)	92.3	(380)		[68/17]
$C_{14}H_{10}NiO_4$	*bis*(salicyladehydato)nickel(II)				
		85.4		I	[63/7]
$C_{14}H_{12}N_2NiO_2$	*bis*(salicyliminato)nickel(II)				
		158.2		I	[63/7]
$C_{14}H_{12}N_2NiO_4$	*bis*(salicylaldoximato)nickel(II)				[14363-30-5]
	(403–423)	106.6±29	(413)		[84/12]
		112±29	(298)		[84/12]
$C_{14}H_{28}N_2NiS_4$	*bis*(dipropyldithiocarbamate)nickel complex				[14516-30-4]
		147.2±5.0		C	[89/16]
		126.1±0.8			[78/12]
$C_{14}H_{28}N_2NiS_4$	*bis*(diisopropyldithiocarbamate) nickel complex				[15694-55-0]
		148.±5.0		C	[89/16]
	(442–477)	143.4±2.1	(459.5)		[87/4][78/12]
$C_{16}H_{14}N_2NiO_2$	N,N-*bis*(salicylidene)ethylenediaminonickel(II)				[14167-20-5]
	(459–545)	149.8±7.0		ME	[99/39]
$C_{18}H_{12}N_2NiO_2$	*bis*(8-hydroxyquinolinato)nickel(II)				[14100-15-3]
		175.4±6.7	(298)	ME	[94/16]
	(468–503)	129.9±6	(486)	ME	[84/12]
		139±6	(298)		[84/12]
$C_{18}H_{14}N_4Ni$	dibenzotetra-aza-annulene nickel(II) complex				[39251-81-5]
	(463–553)	116.6±5.5	(508)	T	[83/29]
$C_{18}H_{36}N_2NiS_4$	*bis*(dibutyldithiocarbamate)nickel(II)				[13927-77-0]
		132.6±5.0		C	[89/16]
$C_{18}H_{36}N_2NiS_4$	*bis*(diisobutyldithiocarbamate)nickel(II)				[28371-07-5]
		133.6±5.0		C	[89/16]
	(423–443)	152.1±1.3	(433)		[87/4][78/12]
$C_{20}H_{16}N_2NiO_2$	*bis*(8-hydroxy-2-methylquinolinate)nickel(II)				[15200-70-1]
	(489–505)	170.9±3.7	(496)	ME	[98/8]
		180.9±3.7	(298)		[98/8]
$C_{22}H_{38}NiO_4$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)nickel(II)				[14481-08-4]
	(453–493)	111		MEM	[99/40]
		145.2±10		ME	[78/22]
$C_{32}H_{16}N_8Ni$	nickel(II) phthalocyanine				[14055-02-8]
		144.6		TGA	[95/35]
$C_{44}H_{28}N_4Ni$	5,10,15,20-tetraphenylporphine nickel(II)				[14172-92-0]
		152±4		GS	[00/36]
$NiBr_2$	nickel(II) bromide				[13462-88-9]
	(714–969)	207±4.0	(841)	TE	[97/20]
		226±1.0	(298)		[97/20]
NiF_2	nickel(II) fluoride				[10028-18-9]
	(1054–1106)	332.2±4.1		ME	[64/19]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Molecular formula/polymorph	Temperature range (K)			Method	Reference
Np					
$(C_{10}H_2F_{12}NpO_6)-(C_3H_9OP)$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)neptunium(IV) dioxide-trimethylphospine oxide adduct				[106617-32-7]
	(370–418)	90±3			[88/15][87/23]
$C_{20}H_4F_{24}NpO_8$	*tetrakis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)neptunium(IV)				[110900-26-0]
	(314–375)	81±3			[88/15][87/23]
$(C_{20}H_4F_{24}NpO_8)-(C_3H_9OP)$	*tetrakis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)neptunium(IV)-trimethylphospine oxide adduct				[110934-11-7]
	(353–404)	100±4			[88/15][87/23]
$C_{32}H_{40}F_{12}NpO_8$	*tetrakis*(1,1,1-trimethyl-5,5,5-hexafluoro-2,4-pentanedionato)neptunium(IV)				[99791-99-8]
	(374–424)	106±3			[88/15]
$C_{40}H_{40}F_{28}NpO_8$	*tetrakis*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)neptunium(IV)				
	(350–368)	147.7±2.9	(359)	ME	[70/23]
Os					
$C_{10}H_{10}Os$	*bis*(cyclopentadienyl)osmium				[1273-81-0]
	(393–506)	72.9±1.4			[84/31]
		80.5±1.7	(298)		[84/31]
		75.3			[59/10]
$C_{12}O_{12}Os_3$	triosmium dodecacarbonyl				[15696-40-9]
		104.6±20	(298)		[82/20][74/26]
	(423–543)	108.4	(483)		[74/35]
P					
CCl_3F_2P	difluoro(trichloromethyl)phosphine				[1112-03-4]
	(264–283)	36.8(liq)	(274)		[87/4]
CH_3Cl_2OP	methylphosphonic dichloride				[676-97-1]
		62.3			[70/1][55/4]
CH_5O_3P	methylphosphonic acid				[993-13-5]
		48.1±4.2			[55/4][70/1]
C_2HF_6OP	phosphinous acid, *bis*(trifluoromethyl) ester				[359-65-9]
	(233–251)	46.6	(242)		[87/4][62/13]
$C_2HF_6PS_2$	phosphinodithioic acid, *bis*(trifluoromethyl) ester				[18799-75-2]
	(273–287)	41.9	(280)		[87/4]
C_2H_6ClP	chlorodimethylphosphine				[811-62-1]
	(233–268)	55.5	(253)		[87/4][58/16]
$C_2H_7O_3P$	ethylphosphonic acid				[15845-66-6]
		50.6±4.2			[55/4][70/1]
$C_3F_9P_3S_5$	2,4,5-*tris*(trifluoromethyl)-1,3,2,4,5-dithiatriphospholane-2,4,5-trisulfide				[26349-17-7]
	(363–373)	96.6	(368)		[70/21]
C_3N_3P	tricyanophosphine				[1116-01-4]
	(293–323)	78.3	(308)	ME	[87/4][76/17]
		75.3±2.9	(298)		[95/30][76/17]
$C_3H_6F_3PS$	dimethyl(trifluoromethyl)phospine sulfide				[26348-92-5]
	(300–320)	68.0	(310)		[70/20]
C_3H_9OP	trimethylphosphine oxide				[676-96-0]
		50.2±4.2		E	[82/20][60/10]
C_3H_9PS	trimethylphospine sulfide				[2404-55-9]
	(366–394)	70.3	(380)		[66/13]
$C_4F_{12}P_4$	1,2,3,4-*tetrakis*(trifluoromethyl)tetraphosphetane				[393-02-2]
	(292–339)	65.3	(307)		[87/4][58/17]
$C_4H_8Cl_3O_4P$	(1-hydroxy-2,2,2-trichloroethyl)phosphonic acid dimethyl ester				[52-68-6]
	(293–357)	107	(308)		[87/4]
$C_4H_{13}NP_2$	*bis*(dimethylphosphino)amine				
	(300–310)	61.7	(305)		[53/14]
$C_5H_{11}P$	phoshorinane				[4743-40-2]
	(250–291)	43.3	(276)	T	[87/4][66/16]
	(294–345)	39.9 (liq)	(309)	T	[87/4][66/16]
$C_6F_{18}NP_3$	nitrilo*tris*[*bis*(trifluoromethyl)phosphine]				
	(273–309)	68.4	(291)		[65/21]
$C_9H_{12}N_3P$	*tris*(2-cyanoethyl)phosphine				[4023-54-4]
	(397–427)	105.7±2	(413)	ME,TE	[81/22]
$C_{10}H_{14}NO_5PS$	ethyl parathion (O,O-diethyl-O-4-nitrophenylthiophosphate)				[56-38-2]
	(298–318)	100.6	(308)		[79/10][83/5]
$C_{12}H_{16}N_3O_3PS_2$	azinphos-ethyl				[2642-71-9]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(326–420)	86.8	(341)		[87/4]
$C_{15}H_{30}N_3PS_6$	phosphorus-*tris*(N,N-diethyldithiocarbamate)				[17767-20-3]
		143±2	(298)		[87/16]
$C_{18}H_{15}OP$	triphenylphosphine oxide				[791-28-6]
		131±2	(399)	ME,TE	[89/28]
		66±6	(298)	B	[78/11]
$C_{18}H_{15}P$	triphenylphosphine				[603-35-0]
		113.2±3.0	(298)		[88/21]
		109.2±1.1	(350)		[84/13]
		96.2±8.4	(298)		[82/20][60/9]
$C_{18}H_{15}O_4P$	triphenylphosphate				[115-86-6]
		114.4±2.6	(298)	B	[89/23]
$C_{18}H_{15}PS$	triphenylphosphine sulfide				[3878-45-3]
	(388–419)	136.8±6.1	(403)	HSA	[96/9]
		142.8±6.8	(298)		[96/9]
$C_{20}H_{20}NP$	N-ethyl triphenylphosphine imine				[47182-04-7]
		75.3±8.4	(298)		[82/20][60/10]
$C_{21}H_{42}N_3PS_6$	*tris*(dipropyldithiocarbamate)phosphorous				[100575-31-3]
		127.4±4.2		DSC,E	[99/34]
$C_{28}H_{28}P$	1,4-*bis*(diphenylphosphino)butane				[7688-25-7]
		171.6±2.5	(443)	B	[89/28]
$C_{27}H_{54}N_3PS_6$	*tris*(diisobutyldithiocarbamate)phosphorous				[194281-16-8]
		138±3		DSC,E	[97/31]
PH_3	phosphine				[7803-51-2]
	(129–140)	17.2		MM	[37/3]
PBr_3S	thiophosphoryl bromide				[3931-89-3]
	(273–309)	61.2	(291)	GSM	[41/1]
$P_3Cl_6N_3$	phosphonitrilic chloride (trimer)				[940-71-6]
		76.1			[43/6]
$P_3F_6N_3$	phosphonitrilic fluoride (trimer)				[15599-91-4]
	(273–300)	53.6		T	[58/15]
	(273–298)	53.6		ME	[58/19]
$P_4F_8N_4$	phosphonitrilic fluoride (tetramer)				[14700-00-6]
	(273–303)	58.2		T	[58/15]
	(283–303)	57.7			[58/19]
Pb					
$C_{10}H_2F_{12}O_4Pb$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)lead(II)				[19648-88-5]
	(368–413)	111.7±1.3		GS	[97/35]
$C_{10}H_{14}O_4Pb$	*bis*(2,4-pentanedionato)lead(II)				[15282-88-9]
	(393–444)	102.4±5.0		GS	[97/35]
		87.0		LE	[94/35][97/35]
$C_{10}H_{20}N_2PbS_4$	*bis*(diethyldithiocarbamate)lead complex				[17549-30-3]
	(444–482)	129.9±2.5	(463)		[87/4][78/12]
$C_{12}H_{10}Br_2Pb$	diphenyl lead dibromide				[3134-29-6]
	(298–398)	141.8±0.8	(298)	ME	[88/16][76/15]
$C_{16}H_{20}F_6O_4Pb$	*bis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)lead(II)				[21751-12-2]
	(393–463)	117.5±2.8		GS	[97/35]
$C_{18}H_{12}N_2PbO_2$	*bis*(8-hydroxyquinolinato)lead(II)				[14976-96-6]
		187.1±6.2	(298)	ME	[94/16]
$C_{18}H_{15}BrPb$	triphenyl lead bromide				[894-06-4]
	(298–398)	134.7±3.3	(298)	ME	[88/16][76/15]
$C_{18}H_{15}IPb$	triphenyl lead iodide				[894-07-5]
	(298–398)	130.1±0.4	(298)	ME	[88/16][76/15]
$C_{20}H_{20}F_{14}O_4Pb$	*bis*(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)lead(II)				[21600-78-2]
		75			[92/9]
$C_{22}H_{38}O_4Pb$	*bis*(2,2,6,6-tetramethyl-3,5-heptanedionato)lead(II)				[21319-43-7]
	(373–398)	117.5±2.8		GS	[97/35]
		66.9		LE	[94/35][97/35]
		86			[92/9]
		74.1		ME	[73/18]
$C_{24}H_{20}Pb$	tetraphenyl lead				[595-89-1]
	(412–480)	151	(446)		[87/4]
	(412–474)	159±1	(298)	ME,TE	[77/19]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
		194.6±6.3	(298)	E	[82/20][72/20]
	(298–316)	U 80.2	(298)	ME	[62/6]
		82.8	(298)		[72/22]
$C_{32}H_{16}N_8Pb$	lead(II) phthalocyanine				[15187-16-3]
		156.3		TGA	[95/35]
	(542–663)	195.7			[84/7]
PbF_2	lead(II) fluoride				[7783-46-2]
		267.8			[71/27]
PbI_2	lead(II) iodide				[10101-63-0]
	(598–640)	173.1±1.6	(298)	ME	[96/23]
	(474–582)	167.7±1.3	(298)	MS	[96/23][85/14]
	(900–1150)	182.5±1.0	(298)		[96/23][79/26]
	(563–613)	165.2±1.8	(298)	ME	[96/23][64/7]
	(579–650)	166.4±1.0	(298)	ME	[96/23][39/1]
	(923–1073)	165.5±3.0	(298)	GS	[96/23][29/1]
PbSe	lead selenide				[12069-00-0]
	(835–1047)	226±1		TE	[93/20]
Pd					
$C_{10}H_2F_{12}O_4Pd$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)palladium(II)				[64916-48-9]
	(293–313)	84.6±1.6		ME	[00/29]
$C_8H_{10}Pd$	(cyclopentadienyl)allyl palladium				[1271-03-0]
	(291–333)	49.9	(312)		[87/4][76/18]
$C_{10}H_8F_6O_4Pd$	*bis*(1,1,1-trifluoro-2,4-pentanedionato)palladium(II)				[63742-52-9]
	(332–378)	115.2±1.4		ME	[00/29]
	(423–448)	105.0±0.8		GS	[85/16]
$C_{10}H_{10}F_6N_2O_2Pd$	*bis*(1,1,1-trifluoro-4-imino-2-pentanonato)palladium(II)				[203874-01-5]
	(332–386)	110.9±0.7		ME	[00/29]
$C_{10}H_{14}O_4Pd$	*bis*(2,4-pentanedionato)palladium(II)				[14024-61-4]
	(347–416)	130.1±2.8		ME	[00/29]
	(330–394)	122.7±8.6	(298)		[91/17]
	(363–393)	127.6±17	(378)	ME	[84/12]
		132±17	(298)		[84/12]
$C_{10}H_{20}N_2PdS_4$	*bis*(diethyldithiocarbamate)palladium(II)				[15170-78-2]
		153.1±1.9			[99/37]
$C_{16}H_{20}F_6O_4Pd$	*bis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)palladium(II)				[77964-87-5]
	(315–357)	131.4±1.9		ME	[00/29]
$C_{16}H_{20}F_6O_6Pd$	*bis*(1,1-dimethyl-1-methoxy-5,5,5-trifluoro-2,4-pentanedionato)-palladium(II)				[301198-67-4]
	(315–369)	113.8±1.2		ME	[00/29]
$C_{18}H_{12}N_2O_2Pd$	*bis*(8-hydroxyquinolinato)palladium(II)				[14638-30-3]
	(483–503)	158.5±4	(493)	ME	[84/12]
		168±4	(298)		[84/12]
$C_{20}H_{12}F_6O_4Pd$	*bis*(4,4,4-trifluoro-1-phenyl-1,3-butanedionato)palladium(II)				[85159-01-9]
	(386–452)	148.6±1.4		ME	[00/29]
$C_{20}H_{18}O_4Pd$	*bis*(1-phenyl-1,3-butanedionato)palladium(II)				[15186-07-9]
	(410–471)	152.9±1.4		ME	[00/29]
$C_{22}H_{38}O_4Pd$	*bis*(2,2,6,6-tetramethyl-2,4-heptanedionato)palladium(II)				[15214-66-1]
	(343–401)	125.4±1.4		ME	[00/29]
$C_{44}H_{28}N_4Pd$	5,10,15,20-tetraphenylporphine palladium(II)				[76775-77-4]
		207±5		GS	[00/36]
Pm					
$C_{33}H_{57}O_6Pm$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)promethium(III)				[67840-53-3]
	(433–463)	131.8			[79/29]
Pr					
$C_{15}H_{15}Pr$	*tris*(cyclopentadienyl)praseodymium				[11077-59-1]
		125.5±3.0	(298)		[82/20][74/23]
	(533–653)	113.0±1.7			[73/31]
	(338–438)	131.0±2.1		ME	[71/32][71/33]
$C_{33}H_{57}O_6Pr$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)praseodymium(III)				[15492-48-5]
		104.3±2.6			[96/31][00/16]
		163.0±3.6		DSC	[93/26][00/16]
	(383–423)	178.7	(403)	ME	[81/21]
	(450–495)	165.4	(473)	BG	[69/19]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{32}H_{40}F_{12}O_8NaPr$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-praseodymate				[93557-93-8]
	(423–483)	155±2	(453)	T	[93/4]
$PrBr_3$	praseodymium(III) bromide				[13536-53-3]
		288±4	(900)	TE	[00/27]
		306±4	(298)		[00/27]
		292	(298)		[00/27]
$PrCl_3$	praseodymium(III) chloride				[10361-79-2]
		317±4	(1000)	TE	[00/27]
		340±4	(298)		[00/27]
		324	(298)		[00/27]
PrI_3	praseodymium(III) iodide				[13813-23-5]
		263±4	(900)	TE	[00/27]
		280±4	(298)		[00/27]
		275	(298)		[00/27]
Pt					
$C_8H_{14}Pt$	cyclopentadienyltrimethylplatinum				[1271-07-4]
		77.8±2.0	(298)		[82/20][77/21]
$C_{10}H_{14}O_4Pt$	*bis*(2,4-pentanedionato)platinum(II)				[15170-57-7]
	(363–383)	129.4±9	(373)	ME	[84/12]
		133±9	(298)		[84/12]
$C_{10}H_{20}N_2PtS_4$	*bis*(diethyldithiocarbamate)platinum(II)				[15730-38-8]
		157.1±2.0			[99/37]
$C_{12}H_{16}Pt$	dicyclopentadienyldimethylplatinum				[42613-14-9]
		83.7±3.5	(298)		[82/20][77/21]
Pu					
$C_{40}H_{40}F_{28}O_8Pu$	*tetrakis*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)plutonium(IV)				[28041-99-8]
	(349–363)	153.5±7.9	(356)	ME	[70/23]
Rb					
$C_5H_9O_2Rb$	rubidium pivalate				[70205-79-7]
		167.1±5.6			[98/31]
Re					
$C_4H_6Br_4O_4Re_2$	*bis*(μ-acetato)tetrabromodirhenium stereoisomer				[75027-96-2]; [75081-56-0]
cis	(410–510)	66.6			[84/36]
trans	(410–510)	59.9			[84/36]
$C_4H_6Cl_4O_4Re_2$	*bis*(μ-acetato)tetrachlorodirhenium stereoisomer				[62320-69-8]; [100495-10-1]
cis	(450–560)	72.8			[84/36]
trans	(450–560)	64.7			[84/36]
C_5BrO_5Re	bromopentacarbonylrhenium				[14220-21-4]
		92.1±2		C	[83/21]
C_5ClO_5Re	chloropentacarbonylrhenium				[14099-01-5]
		110.9±2		C	[83/21]
C_5HO_5Re	rhenium hydride pentacarbonyl complex				[16457-30-0]
	(279–369)	45.1	(324)		[87/4]
$C_6H_3O_5Re$	rhenium methylpentacarbonyl complex				[14524-92-6]
	(315–380)	65.2	(347.5)		[87/4][60/22]
		70.0±2	(298)	C	[83/21]
		65.3±1.0	(298)		[82/20][74/25]
	(313–383)	64.9			[58/7]
$C_{10}O_{10}Re_2$	dirhenium decacarbonyl				[14285-68-8]
		100.9±2	(298)		[83/21]
		93.3±4.2	(298)		[82/20][74/25]
	(363–450)	77.6	(406)	MM	[71/20]
		79.5			[61/10][71/20]
Rh					
$C_7H_7O_4Rh$	dicarbonyl-2,4-pentanedionatorhodium complex				[14874-82-9]
	(276–301)	87±2.9	(289)	ME	[78/20][87/4]
$C_9H_{13}Cl_2O_2Rh$	*bis*(chloroethylene)-2,4-pentanedionatorhodium complex				[12282-04-1]
	(275–288)	117.2±7.1	(281)	ME	[78/20][87/4]
$C_9H_{15}O_2Rh$	*bis*(ethylene)-2,4-pentanedionatorhodium complex				[12082-47-2]
	(282–301)	97.9±7.1	(292)	ME	[78/20][87/4]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{10}H_{14}O_4Rh$	*bis*(2,4-pentanedionato)rhodium(II)				[69047-66-1]
		NA			[94/34]
	(383–447)	173.2±7.0	(298)		[91/17]
$C_{11}H_{19}O_2Rh$	*bis*(propylene)-2,4-pentanedionatorhodium complex				[12282-38-1]
	(270–296)	86.2±1.7	(283)	ME	[78/20][87/4]
$C_{13}H_{19}O_6Rh$	*bis*(vinylacetate)-2,4-pentanedionatorhodium complex				[31724-87-5]
	(309–328)	121.3±3	(319)	ME	[78/20]
$C_{13}H_{19}O_6Rh$	*bis*(methyl acrylate)-2,4-pentanedionatorhodium complex				[31724-88-6]
	(311–327)	111.7±4.6	(319)	ME	[78/20]
$C_{16}O_{16}Rh_6$	hexarhodiumhexadecacarbonyl				[28407-51-4]
		117.2±20.0	(298)		[82/20][75/25]
Ru					
$C_{10}H_{10}Ru$	*bis*(cyclopentadienyl)ruthenium				[1287-13-4]
	(383–479)	76.2±1.4			[84/31]
		82.7±1.7	(298)		[84/31]
		77.6±1.6			[67/17]
$C_{10}H_{14}O_4Ru$	*bis*(2,4-pentanedionato)ruthenium(II)				[71263-16-6]
	(398–413)	139.7±2.5	(406)	ME	[93/25]
		145.1±2.5	(298)	ME	[93/25]
$C_{15}H_3F_{18}O_6Ru$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)ruthenium(III)				[16827-63-7]
	(299–313)	114.1±1.0	(306)	ME	[01/13]
		114.5±1.0	(298)	ME	[01/13]
$C_{15}H_{12}F_9O_6Ru$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)ruthenium(III)				[16702-38-8]
	(350–369)	126.8±1.0	(360)	ME	[01/13]
		129.9±1.0	(298)	ME	[01/13]
	(383–423)	90.0±3.0			[96/30]
$C_{15}H_{21}O_6Ru$	*tris*(2,4-pentanedionato)ruthenium(III)				[14284-93-6]
	(423–493)	127.0±0.9			[96/30]
S					
H_2S	hydrogen sulfide				[7783-06-4]
	(128–142)	22.5	(135)	MG	[51/16]
	(165–188)	22.5	(176)		[36/5]
SF_6	sulfur hexafluoride				[2551-62-4]
		23.2±0.01	(186)		[94/23]
	(175–207)	23.3	(191)		[32/2]
Sb					
$C_{15}H_{30}N_3S_6Sb$	*tris*(N,N-diethyldithiocarbamate)antimony(III)				[22914-48-3]
		160±2	(298)		[94/31]
$C_{18}H_{15}Sb$	triphenylantimony				[603-36-1]
		106.3±8.4	(298)		[82/20][60/11]
$C_{21}H_{42}N_3S_6Sb$	*tris*(dipropyldithiocarbamate)antimony(III)				[226980-30-9]
		169.5±6.1		DSC,E	[99/34]
$C_{27}H_{54}N_3S_6Sb$	*tris*(N,N-dibutyldithiocarbamate)antimony(III)				[14907-93-8]
		179±3	(298)		[94/31]
$C_{27}H_{54}N_3S_6Sb$	*tris*(N,N-diisobutyldithiocarbamate)antimony(III)				[41594-79-0]
		157±3	(298)	DSC,E	[97/31]
Sc					
$C_{15}H_3F_{18}O_6Sc$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentadionato)scandium(III)				[18990-42-6]
	(333–363)	55		TGA	[00/35]
	(313–348)	60.2±1.2		I	[78/26]
$C_{15}H_{12}F_9O_6Sc$	*tris*(1,1,1-trifluoro-2,4-pentadionato)scandium(III)				[14634-68-5]
	(373–403)	78		TGA	[00/35]
	(363–433)	117.6±1.7			[85/16]
	(366–413)	53.2±1.0		I	[78/26]
$C_{15}H_{15}Sc$	*tris*(cyclopentadienyl)scandium				[1298-54-0]
		97.1±3.5	(298)		[82/20][74/23]
$C_{15}H_{21}O_6Sc$	*tris*(2,4-pentanedionato)scandium(III)				[14284-94-7]
	(413–443)	95		TGA	[00/35]
	(393–453)	58.2±0.8		I	[78/26]
		99.6±0.8	(298)	HSA	[70/9][70/17]
$C_{33}H_{57}O_6Sc$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)scandium(III)				[15492-49-6]
	(413–443)	90		TGA	[00/35]
		79.6±2.4			[97/3]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
Se					
CSe_2	carbon diselenide				[506-80-9]
	(218–229)	46.3	(224)		[87/4][66/12]
$C_4H_4N_2O_2Se$	selenobarbituric acid				[92754-59-1]
	(449–486)	141±4.0	(466)	TE	[99/6]
C_4H_4Se	selenophene				[288-05-1]
	(208–243)	47.1	(225)		[51/17]
$C_8H_6N_2Se$	4-phenyl-1,2,3-selenadiazole				[25660-64-4]
	(275–343)	91.2±1.7	(309)	ME	[74/5]
		94.1±0.8	(298)	GS	[73/25]
	(327–345)	90.7	(336)		[87/4]
$C_{12}H_{12}Se_2$	diphenyl diselenide				[1666-13-3]
	(302–324)	116.7±2.5	(313)	ME	[80/33]
$C_{14}H_{14}Se_2$	dibenzyl diselenide				[1482-82-2]
	(291–330)	130.5		ME	[74/5][73/25]
SeF_6	selenium hexafluoride				[7783-79-1]
		24.96±0.04	(205)	C	[96/22]
	(194–226)	23.5	(210)		[32/2]
Si					
$(CH_3Cl_3Si)–2(C_6H_{15}N_3)$	*bis*-1,3,5-trimethyl-1,3,5-triazacyclohexane-methyltrichlorosilane				
	(298–354)	74.0±2.8			[84/5]
CH_3NSi	isocyano silane				[18081-38-4]
	(253–304)	48.8	(279)		[87/4][56/16]
$C_2H_3F_3O_2Si$	silyl trifluoroacetate				[6876-44-4]
	(273–293)	30.7 (liq)	(283)		[87/4][67/20]
C_2H_9NSi	dimethylaminosilane				[2875-98-1]
	(228–264)	58.8	(246)		[87/4][54/11]
$C_6H_{18}O_3Si_3$	hexamethylcyclotrisiloxane				[541-05-9]
	(297–335)	55.2±0.4	(316)		[53/11]
$C_7H_{15}NO_3Si$	1-methyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[2288-13-3]
		82±0.8			[89/12]
$C_8H_{15}NO_3Si$	1-ethenyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[2097-18-9]
		85±0.8			[89/12]
$C_8H_{17}NO_3Si$	1-ethyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[2097-16-7]
		81±0.9			[89/12]
$C_8H_{17}NO_3Si$	1,7-dimethyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[18225-19-9]
		92±0.8			[89/12]
$C_8H_{17}NO_4Si$	1-ethoxy-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[3463-21-6]
		81±0.8			[89/12]
$C_8H_{24}O_4Si_4$	octamethylcyclotetrasiloxane				[556-67-2]
		64±2		B	[53/11][60/1] [70/1]
$C_8H_{24}O_{12}Si_8$	octamethyldodecaoxooctasilicon				[57348-79-5]
	(463–563)	110.5	(513)		[87/4][75/29]
$C_9H_{19}NO_3Si$	1-propyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[26053-77-0]
		84±0.8			[89/12]
$C_9H_{19}NO_3Si$	1-(1-methylethyl)-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[2097-17-8]
		92±0.9			[89/12]
$C_9H_{19}NO_3Si$	1,3,7-trimethyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[56492-01-4]
		101±0.8			[89/12]
$C_{10}H_{21}NO_3Si$	1,3,7,10-tetramethyl-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[71229-51-1]
		115±0.9			[89/12]
$2(C_6H_{15}N_3)\cdot Cl_4Si$	*bis*-1,3,5-trimethyl-1,3,5-triazacyclohexane·tetrachlorosilane				
	(298–354)	76.1±4.6			[84/5]
$C_{12}H_{36}Si_5$	*tetrakis*(trimethylsilyl)silane				[4098-98-0]
		83.7±20.9	(298)		[82/20][72/18]
$C_{13}H_{19}NO_4Si$	1-(2-phenoxylmethyl)-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[63071-93-2]
		108±0.8			[89/12]
$C_{14}H_{19}NO_5Si$	2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane-1-methanol benzoate ester				[79791-55-2]
		109±0.9			[89/12]
$C_{14}H_{21}NO_3Si$	1-(2-phenylethyl)-2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecane				[63330-92-7]
		108±0.9			[89/12]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
$C_{15}H_{21}NO_5Si$	4-methylbenzoic acid 2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undec-1-ylmethyl ester				[100446-65-9]
		123±0.9			[89/12]
$C_{15}H_{21}NO_6Si$	4-methoxybenzoic acid 2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undec-1-ylmethyl ester				[94697-86-6]
		143±0.9			[89/12]
$C_{20}H_{20}OSi$	ethoxytriphenylsilane				[1516-80-9]
		142.7±1.0			[88/27]
$C_{24}H_{20}Si$	tetraphenylsilane				[1048-08-4]
	(428–484)	51.2	(456)		[87/4]
		156.9±1.7	(298)		[78/24]
		149.4±1.7	(298)	ME,TE	[74/12]
	(428–489)	51.0		MG	[73/14]
		51.0	(298)		[72/22][86/17]
$C_{24}H_{20}O_4Si$	tetraphenoxysilane				[1174-72-7]
		124.7±1.2			[88/27]
$C_{32}H_{16}Cl_2N_8Si$	silicon phthalocyanine dichloride				[19333-10-9]
		115.3±11.5			[72/31]
$C_{36}H_{30}Si_2$	hexaphenyldisilane				[1450-23-3]
		209.2±2.1	(298)	ME,TE	[74/12]
$SiCl_4$	silicon tetrachloride				[10026-04-7]
	(175–204)	43.3±0.1		MG	[64/12]
SiF_4	silicon tetrafluoride				[7783-61-1]
	(148–183)	25.8			[30/4]
$F_3H_3Si_2$	1,1,1-trifluorodisilane				[15195-26-3]
	(195–209)	39.2	(202)		[72/29]
Sm					
$C_{15}H_{15}Sm$	*tris*(cyclopendienyl)samarium(III)				[1298-55-1]
	(513–633)	109.6±1.7			[73/31]
$C_{15}H_{21}O_6Sm$	*tris*(2,4-pentanedionato)samarium(III)				[14589-42-5]
	(293–413)	U 20±2			[85/18]
$C_{30}H_{30}F_{21}O_6Sm$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)samarium(III)				[17631-69-5]
	(379–394)	158.6±1.7		ME	[71/25]
$C_{33}H_{57}O_6Sm$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)samarium(III)				[15492-50-9]
		149.7±3.3	(298)	DSC	[99/33]
	(378–418)	180.7	(398)	ME	[81/21]
	(430–468)	150.6	(447)	BG	[69/19]
Sn					
$C_{16}H_{18}Sn$	1,1-diphenylstannolane				[53561-93-6]
		106.8±5.5	(298)	B	[88/11]
$C_{17}H_{20}Sn$	hexahydro-1,1-diphenylstannin				[19814-46-1]
		75.0±1.5(liq)	(298)	ME	[88/11]
$C_{20}H_{18}Sn$	triphenyl vinyl tin				[2117-48-8]
		114.1			[85/12]
$C_{24}H_{20}Sn$	tetraphenyl tin				[595-90-4]
	(393–461)	151.7	(427)		[87/4]
		161.1±4.2	(298)		[82/20][69/18]
	(428–454)	152.5±0.6		TE	[69/16]
	(393–461)	151.8±1.1		ME	[69/16]
		59.5	(298)		[72/22][86/17]
	(298–316)	U 66.0±21.2	(298)	ME	[62/6][70/13]
$C_{27}H_{20}Sn$	triphenyl phenylethynyl tin				[1247-08-1]
		137.6			[85/12]
$C_{32}H_{16}Cl_2N_8Sn$	tin(IV) phthalocyanine dichloride				[18253-54-8]
		218.4±17.6		ME	[70/7]
$C_{32}H_{16}N_8Sn$	tin(II) phthalocyanine				[15304-57-1]
		123.4±10.0		ME	[70/7]
$C_{36}H_{30}Sn_2$	hexaphenyl ditin				[1064-10-4]
		188.3±4.2	(298)	ME,TE	[69/16]
$C_{44}H_{26}N_8Sn$	diphenyl tin(IV) phthalocyanine				[219130-47-0]
		174.9±18.8		ME	[70/7]
$SnBr_4$	tin(IV) bromide				[7789-67-5]
	(257–299)	62.4	(278)		[41/7]
SnI_4	tin(IV) iodide				[7790-47-8]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
	(366–414)	75.6	(390)		[41/7]
Sr					
$SrCl_2$	strontium chloride				[10476-85-4]
		328.9±4.8	(298)	LE	[65/17]
Ta					
$C_5H_{15}O_5Ta$	tantalum pentamethoxide				[865-35-0]
		88.3±13.4		ME,E	[72/23][77/21]
$TaBr_5$	tantalum(V) pentabromide				[13451-11-1]
		127±18	(298)		[96/25]
		121.9	(298)		[96/25][91/22]
TaI_5	tantalum(V) pentaiodide				[14693-81-3]
	(573–655)	120.9			[78/30]
Tb					
$C_{15}H_{15}Tb$	*tris*(cyclopentadienyl)terbium(III)				[1272-25-9]
		103.8±1.7			[73/32]
$C_{32}H_{40}F_{12}NaO_8Tb$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-terbate				[12576-88-4]
	(418–473)	163±3	(445)	T	[93/4]
$C_{33}H_{57}O_6Tb$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)terbium(III)				[15492-51-0]
		138.4±2.6	(298)	DSC	[99/33]
	(373–420)	173.6	(396)	ME	[81/21]
	(420–433)	151.0	(426)	ME	[81/21]
	(420–454)	141.5	(437)	BG	[69/19]
Te					
$TeCl_4$	tellurium tetrachloride				[10026-07-0]
		105±2	(298)		[94/32]
TeF_6	tellurium hexafluoride				[7783-80-4]
	(194–233)	25.6	(214)		[32/2]
Th					
$C_{20}H_{16}F_{12}O_8Th$	*tetrakis*(1,1,1-trifluoropentane-2,4-dionato)thorium(IV)				[17500-72-0]
		154.6	(298)	GS,HA	[86/9]
$C_{40}H_{40}F_{28}O_8Th$	*tetrakis*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)thorium (IV)				[23841-30-7]
α form		151.2	(298)	GS,HA	[86/9]
β form		130.6	(298)	GS,HA	[86/9]
	(344–367)	138.5±3.3	(355)	ME	[70/23]
$C_{44}H_{76}O_8Th$	*tetrakis*(2,2,6,6-tetramethylheptane-3,5-dionato)thorium(IV)				
	(391–409)	152.3±3.3	(400)	ME	[70/23]
Ti					
$C_2H_3Cl_4NTi$	titanium trichloride–acetonitrile (1:1 complex)				[13682-81-0]
		29.4±5.0		T	[70/18]
$C_2H_3Cl_4NTi$	titanium trichloride–acetonitrile (1:2 complex)				[15227-64-2]
		41.0±5.0		T	[70/18]
$C_4H_8Cl_4OTi$	titanium trichloride–tetrahydrofuran (1:1 complex)				[15005-09-1]
		33.5±5.0		T	[70/18]
$C_4H_8Cl_4OTi$	titanium trichloride–tetrahydrofuran (1:2 complex)				[31011-57-1]
		49.1±5.0		T	[70/18]
$C_4H_8Cl_4STi$	titanium trichloride–tetrahydrothiophene (1:1 complex)				[14281-72-2]
		29.7±5.0		T	[70/18]
$C_4H_8Cl_4STi$	titanium trichloride–tetrahydrothiophene (1:2 complex)				[16893-00-8]
		43.3±5.0		T	[70/18]
$C_5H_5Cl_3Ti$	cyclopentadienyltitanium trichloride				[1270-98-0]
	(354–404)	89.8	(379)		[87/4]
		104.6±8.4	(298)		[82/20][77/21]
		89.1±0.8			[77/23]
$C_5H_{10}Cl_4OTi$	titanium trichloride–tetrahydropyran (1:1 complex)				[22538-12-1]
		33.5±5.0		T	[70/18]
$C_5H_{10}Cl_4OTi$	titanium trichloride–tetrahydropyran (1:2 complex)				[31011-56-0]
		73.0±5.0		T	[70/18]
$C_8H_8Cl_4OTi$	titanium trichloride–acetophenone (1:1 complex)				[31011-60-6]
		39.1±5.0		T	[70/18]
$C_8H_8Cl_4OTi$	titanium trichloride–acetophenone (1:2 complex)				[31011-61-7]
		66.4±5.0		T	[70/18]
$C_{13}H_{10}Cl_4OTi$	titanium trichloride–benzophenone (1:1 complex)				[23368-15-2]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)	Method	CAS registry number / Reference
		59.6±5.0		T	[70/18]
$C_{13}H_{10}Cl_4OTi$	titanium trichloride–benzophenone (1:2 complex)				[31011-63-9]
		68.8±5.0		T	[70/18]
$C_{10}H_{10}Ti$	*bis*(cyclopentadienyl)titanium				[1271-29-0]
		58.5±8.0	(298)		[82/20][71/22]
$C_{10}H_{10}Cl_2Ti$	*bis*(cyclopentadienyl)titanium dichloride				[1271-19-8]
		124.4±2.9	(298)	ME	[01/3]
	(418–533)	124.4	(475.5)		[87/4]
		118.8±2.1	(298)		[82/20][77/21]
		111.7±1.7			[77/23]
		96.2			[69/20]
		102±13	(298)		[68/19][01/3]
$C_{12}H_{10}O_2Ti$	*bis*(cyclopentadienyl)dicarbonyl titanium				[12129-51-0]
		84.2±3.5	(298)	ME	[87/18]
$C_{12}H_{16}Ti$	*bis*(cyclopentadienyl)dimethyltitanium				[1271-66-5]
		79.5±8.4	(298)		[82/20][77/21]
$C_{14}H_{10}F_6O_4Ti$	*bis*(cyclopentadienyl)titanium *bis*(trifluoroacetate)				[1282-45-7]
		108.0±8.0	(298)		[82/20][81/17]
$C_{22}H_{20}Ti$	*bis*(cyclopentadienyl)diphenylltitanium				[1273-09-2]
		88±8			[82/22]
$C_{24}H_{20}O_4Ti$	*bis*(benzoato)*bis*(η^5-2,4-cyclopentadien-1-yl)titanium				[12156-48-8]
		112±8			[81/17]
$C_{24}H_{24}Ti$	*bis*(cyclopentadienyl)dibenzyltitanium				[See Note]
		83.7±8.4	(298)		[82/20][77/21]
	[Note: There is no reference to [77/21] in *Chemical Abstracts* under the given chemical name. Rather, *Chemical Abstracts* lists the paper under *bis*(cyclopentadienyl)diphenyltitanium.]				
$C_{30}H_{28}Fe_2Ti$	*bis*(cyclopentadienyl)diferrocenyl titanium				[65274-19-3]
		150±15			[82/22]
$TiBr_4$	titanium(IV) tetrabromide				[7789-68-6]
	(283–306)	62.4	294		[41/7]
TiF_3	titanium(III) fluoride				[13470-08-1]
	(759–865)	237.2±1.7	(810)		[67/13]
Tl					
C_3H_9Tl	trimethyl thallium				[3003-15-4]
	(258–304)	57.3	(285)	CATH	[65/13][87/4]
TlF	thallium(I) fluoride				[7789-27-7]
		142.7	(298)		[67/14]
Tm					
$C_{15}H_{15}Tm$	*tris*(cyclopentadienyl)thulium				[1272-26-0]
		111.3±3.5	(298)		[82/20][74/23]
		98.7±1.7			[73/32]
	(338–438)	109.2±2.1		ME	[71/32][71/33]
$C_{33}H_{57}O_6Tm$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)thulium(III)				[15631-58-0]
		131.3±2.9	(298)	DSC	[99/33]
	(363–418)	156.1	(390)	ME	[81/21]
	(410–446)	131.4	(428)	BG	[69/19]
U					
$C_6H_{18}O_6U$	uranium hexamethoxide				[69644-82-2]
		102.9±8.4			[91/23]
$C_{10}H_2F_{12}O_6U$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)uranium dioxide complex				[67316-66-9]
	(370–425)	147	(397.5)		[87/4]
	(370–425)	147±4			[78/28]
$C_{15}H_{15}ClU$	*tris*(cyclopentadienyl)uranium chloride				[11087-14-2]
	(338–348)	115.9±2.1		ME	[71/32][71/33]
$C_{16}H_{16}U$	*bis*(cyclooctatetraene)uranium				
	(400–500)	107.9±3.3			[79/31][77/26]
		114.2±4.8	(298)		[79/31][77/26]
$C_{20}H_{20}F_{30}O_{10}U_2$	*bis*[*pentakis*(trifluoroethoxy)]diuranium				[137220-74-7]
		NA			[91/19]
$C_{20}H_{22}Cl_2F_{12}O_6U$	*bis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)dichlorouranium-*bis*(tetrahydropyran)				[136211-24-0]
	(316–387)	79.1	(352)	T	[91/16]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
$C_{20}H_{28}O_8U$	*tetrakis*(pentane-2,4-dionato)uranium(IV)				[65137-03-3]
		148.1±4.6			[91/23]
$C_{22}H_{38}O_6U$	*bis*(2,2,6,6-tetramethylheptane-3,5-dionato)dioxouranium				[50707-86-9]
	(370–412)	151.6±1.9	(404)	ME	[93/2]
		156.9±1.9	(298)		[93/2]
		126±9			[78/28]
$C_{40}H_{40}F_{28}O_8U$	*tetrakis*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione) uranium(IV)				[23797-50-4]
		68.2		BG	[77/27]
		64.3±3.2		C	[77/27]
	(343–367)	143.5±1.3	(355)	ME	[70/23]
$C_{40}H_{68}O_{12}U$	*tetrakis*(2,6-dimethyl-2-methoxy-3,5-heptanedionato)uranium(IV)				[133952-93-9]
	(344–377)	121.7±18	(350)		[91/11]
$C_{44}H_{76}O_8U$	*tetrakis*(2,2,6,6-tetramethyl-3,5-heptanedionato)uranium(IV)				
	(372–478)	152.2±3.3	(425)	ME	[77/29]
	(392–409)	149.0±1.3	(400)	ME	[70/23]
$C_{44}H_{76}O_{12}U$	*tetrakis*(2,6,6-trimethyl-2-methoxy-3,5-heptanedionato)uranium(IV)				[133952-92-8]
	(387–428)	160.7±6.3	(408)		[91/11]
V					
$C_{10}H_8F_6O_5V$	*bis*(1,1,1-trifluoro-2,4-pentanedionato)oxovanadium(IV)				[52081-94-4]
	(423–473)	119.7±0.8			[85/16]
$C_{10}H_{10}Cl_2V$	*bis*(cyclopentadienyl)vanadium dichloride				[12083-48-6]
		140.1±7.4	(298)	ME	[01/3]
$C_{10}H_{10}V$	*bis*(cyclopentadienyl)vanadium				[1277-47-0]
	(323–338)	57.4	(330.5)		[87/4]
		58.6±4.2	(298)		[82/20][71/22]
$C_{10}H_{14}O_5V$	*bis*(2,4-pentanedionato)oxovanadium(IV)				[3153-26-2]
		140.7±4.0	(493)	DSC	[87/14]
	(418–443)	91.5	(430.5)		[87/4]
		140.4±1.1	(298)	C	[86/13]
$C_{10}H_{17}NO_5V$	amine*bis*(pentane-2,4-dionato)oxovanadium				[122343-53-7]
		29.0	(370)	DSC	[89/22]
$C_{12}H_{12}V$	*bis*(benzene)vanadium				[12129-72-5]
		70±10			[82/20]
$C_{14}H_{16}V$	benzene(ethylbenzene)vanadium				[36955-47-2]
	(453–483)	69.5	(468)		[72/30]
$C_{15}H_{12}F_9O_6V$	*tris*(1,1,1-trifluoro-2,4-pentanedionato)vanadium(III)				[15695-88-2]
	(383–433)	118.4±2.1			[85/16]
$C_{15}H_{18}V$	benzene(isopropylbenzene)vanadium				[36955-49-4]
	(453–483)	83.7	(468)		[72/30]
$C_{15}H_{18}BrNO_5V$	3-bromopyridine*bis*(acetylacetonato)oxovanadium				[24263-16-9]
		59.4	(402)	DSC	[89/22]
$C_{15}H_{19}NO_5V$	pyridine*bis*(acetylacetonato)oxovanadium				[24263-31-8]
		47.8	(404)	DSC	[89/22]
$C_{15}H_{21}O_6V$	*tris*(2,4-pentanedionato)vanadium(III)				[13476-99-8]
		102.9±0.8	(298)	HSA	[70/9][70/17]
$C_{16}H_{18}N_2O_5V$	3-cyanopyridine*bis*(acetylacetonato)oxovanadium				[24263-13-6]
		79.0	(391)	DSC	[89/22]
$C_{16}H_{18}N_2O_5V$	4-cyanopyridine*bis*(acetylacetonato)oxovanadium				[24263-14-7]
		75.6	(399)	DSC	[89/22]
$C_{16}H_{21}NO_5V$	4-methylpyridine*bis*(acetylacetonato)oxovanadium				[24263-33-0]
		56.9	(421)	DSC	[89/22]
$C_{16}H_{20}V$	*bis*(ethylbenzene)vanadium				[36955-48-3]
	(453–483)	72.0	(468)		[72/30]
$C_{18}H_{24}V$	*bis*(isopropylbenzene)vanadium				[36472-53-4]
	(453–483)	86.2	(468)		[72/30]
W					
C_6O_6W	tungsten hexacarbonyl				[14040-11-0]
	(265–288)	77.7	(276)	TE	[95/36]
	(338–423)	74.9±1.3			[93/28]
	(333–433)	74.4	(348)		[87/4]
	(250–292)	78.9±1.1	(271)	ME	[80/34][79/19]
		73.2	(298)	C	[75/20]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
		76.5±1.3			[75/22]
	(339–410)	69.7			[52/7]
		74.1			[35/2]
$C_7H_3NO_5W$	acetonitrile tungsten pentacarbonyl				[15096-68-1]
	(271–303)	98.1±2.0	(298)		[80/31]
$C_8H_4N_2O_5W$	pyrazole(pentacarbonyl)tungsten				[39017-11-3]
	(287–327)	112.5±2.4	(307)	ME	[79/19]
$C_8H_6N_2O_4W$	*bis*(acetonitrile)tetracarbonyltungsten				[16800-45-6]
	(294–313)	131.0±6.0	(298)		[80/31]
$C_8H_9NO_5W$	trimethylamine(pentacarbonyl)tungsten				[15228-32-7]
		89.1±2.1			[79/19][80/32]
					[80/34]
$C_8H_9O_5PW$	trimethylphosphine(pentacarbonyl)tungsten				[26555-11-3]
	(283–327)	93.8±1.5	(305)	ME	[80/34]
$C_9H_4N_2O_5W$	pyrazine(pentacarbonyl)tungsten				[65761-19-5]
	(287–321)	108.4±1.3	(304)	ME	[79/19]
$C_9H_4N_2O_5W$	pyridazine(pentacarbonyl)tungsten				[65761-20-8]
		106.4±2.5			[79/19][80/32]
					[80/34]
$C_9H_9N_3O_3W$	*tris*(acetonitrile) tungsten tricarbonyl				[16800-47-8]
	(308–333)	103.4±6.0	(298)		[80/31]
$C_{10}H_5NO_5W$	pyridine(pentacarbonyl)tungsten				[14586-49-3]
	(285–313)	109.7±2.7	(299)	ME	[79/19]
$C_{10}H_8O_3W$	cycloheptatrienetungstentricarbonyl				[12128-81-3]
		92.0	(298)	C	[77/22][82/20]
$C_{10}H_{10}Cl_2W$	dichloro*bis*(η^5-2,4-cyclopentadien-1-yl)tungsten				[12184-26-8]
		120.7±8.6	(298)	ME	[01/3]
		104.6±4.2			[76/20]
$C_{10}H_{10}I_2W$	*bis*(η^5-2,4-cyclopentadien-1-yl)diiodotungsten				[12184-31-5]
		104.6±4.2			[76/20]
$C_{10}H_{11}NO_5W$	piperidine(pentacarbonyl)tungsten				[31082-68-5]
	(289–327)	106.4±1.0	(308)	ME	[79/19]
$C_{10}H_{12}W$	dicyclopentadienyltungsten dihydride				[1271-33-6]
	(313–323)	84.6±1.6		ME	[90/30]
		96.2±2.1	(298)		[82/20][79/24]
					[76/20]
$C_{12}H_{12}W$	dibenzene tungsten				[12089-23-5]
		106	(298)	ME	[74/37]
$C_{12}H_{16}W$	*bis*(η^5-2,4-cyclopentadien-1-yl)dimethyltungsten				[39333-53-4]
		74.6±4.2			[80/37]
$C_{12}H_{36}N_6W$	*hexakis*(dimethylamino)tungsten				[68941-84-4]
		89.1±7	(298)	C	[79/18]
$C_{12}H_{36}N_6W_2$	*hexakis*(dimethylamino)ditungsten				[54935-70-5]
		113.3±6	(298)	C	[79/18]
$C_{23}H_{15}O_5PW$	triphenylphosphine(pentacarbonyl)tungsten				[26555-11-3]
	(340–364)	162.2±8.3	(352)	ME	[80/34]
$C_{23}H_{15}O_8PW$	triphenylphosphite(pentacarbonyl)tungsten				[23306-41-4]
	(308–348)	120.2±6.6	(328)	ME	[80/34]
WCl_4O	tungsten(IV) oxychloride				[13520-78-0]
	(396–447)	63.7±1.7	(421)	56	[83/30]
Y					
$C_{15}H_3F_{18}O_6Y$	*tris*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)yttrium(III)				[18911-76-7]
	(310–365)	91.6±8.5		ME	[99/39]
$C_{15}H_{15}Y$	*tris*(cyclopentadienyl)yttrium				[1294-07-1]
		111.7±3.5	(298)		[82/20][74/23]
		99.2±3.3			[73/32]
$C_{15}H_{21}O_6Y$	*tris*(2,4-pentanedionato)yttrium(III)				[15554-47-9]
		98±16			[84/34]
$C_{33}H_{57}O_6Y$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)yttrium(III)				[15632-39-0]
	(358–387)	151.0±0.8	(372)	TE	[01/6]
	(357–377)	153.1±0.4	(366)	TE	[01/6]
	(403–433)	135.9		TG,DTA	[97/8]
		117			[97/3]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element / Molecular formula/polymorph	Compound / Temperature range (K)	$\Delta_{sub}H_m$ /kJ mol^{-1}	(T_m /K)	Method	CAS registry number / Reference
	(382–412)	126	(397)	T	[96/4]
	(353–433)	117			[93/9]
	(353–433)	115.7			[93/9]
		138.5		GS	[90/15]
		66.5 (liq)		GS	[90/15]
	(363–418)	156.9	(388)	ME	[81/21]
		130.8		ME	[73/18]
$C_{32}H_{40}F_{12}O_8NaY$	sodium *tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato)-yttrate				[12576-89-5]
	(418–503)	130±3	(460)	T	[93/4]
	(463–503)	142±12	(483)		[93/4]
Yb					
$C_{15}H_{15}Yb$	*tris*(cyclopentadienyl)ytterbium				[1295-20-1]
		108.8±3.5	(298)		[82/20][74/23]
		96.2±2.9			[73/32]
$C_{15}H_{21}O_6Yb$	*tris*(2,4-pentanedionato)ytterbium(III)				[14284-98-1]
	(364–404)	93.3			[81/7]
$C_{30}H_{30}F_{21}O_6Yb$	*tris*(1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dione)ytterbium(III)				[18323-96-1]
	(339–356)	154.8±3.3		ME	[71/25]
$C_{33}H_{57}O_6Yb$	*tris*(2,2,6,6-tetramethylheptane-3,5-dionato)ytterbium(III)				[15492-52-1]
		131.1±2.7	(298)	DSC	[99/33]
	(363–413)	156.9	(388)	ME	[81/21]
	(410–444)	133.3	(427)	BG	[69/19]
Zn					
$C_4H_{16}Cl_2N_8S_4Zn$	*trans*-dichloro-*tetrakis*(thiourea) zinc(II)				[28813-20-9]
	(351–382)	90±20			[70/11]
$C_{10}H_{14}O_4Zn$	*bis*(2,4-pentanedionato)zinc(II)				[14024-63-6]
		132.6±8	(298)	C	[85/5]
		117±3			[80/30]
$C_{10}H_{20}N_2S_4Zn$	*bis*(diethyldithiocarbamate)zinc(II)				[14324-55-1]
		115±15	(298)	DSC,E	[00/40]
	(401–444)	143.1	(422.5)		[87/4]
		142.7±2.5		GC	[76/21]
$C_{14}H_{28}N_2S_4Zn$	*bis*(dipropyldithiocarbamate)zinc(II)				[15694-56-1]
		147±2	(298)	DSC,E	[92/19]
$C_{18}H_{12}N_2O_2Zn$	*bis*(8-hydroxyquinolinato)zinc(II)				[13978-85-3]
		183.2±6.3	(298)	ME	[94/16]
	(473–513)	167.9±6	(493)	ME	[84/12]
		178±6	(298)		[84/12]
$C_{18}H_{36}N_2S_4Zn$	*bis*(dibutyldithiocarbamate)zinc(II)				[136-23-2]
		107±3	(298)	DSC,E	[91/15]
$C_{18}H_{36}N_2S_4Zn$	*bis*(diisobutyldithiocarbamate)zinc(II)				[36190-62-2]
		283±2	(298)	DSC,E	[94/33]
$C_{20}H_{16}N_2O_2Zn$	*bis*(8-hydroxy-2-methylquinolinate)zinc(II)				[14128-73-5]
	(437–556)	172.0±5.0	(541)	ME	[98/8]
		179.4±5.0	(298)		[98/8]
$C_{22}H_{38}O_4Zn$	*bis*(2,2,6,6-tetramethylheptane-3,5-dianato)zinc(II)				[14363-14-5]
		136.0		ME	[73/18]
$C_{22}H_{44}N_2S_4Zn$	*bis*(dipentyldithiocarbamate)zinc(II)				[15337-18-5]
		127±3	(298)	DSC,E	[00/40]
$C_{44}H_{28}N_4Zn$	5,10,15,20-tetraphenylphorphine zinc (II)				[14074-80-7]
	(563–663)	213±3			[94/38][01/2]
		109	(666)	UV/Vis	[71/29][01/2]
Zr					
$C_{10}H_{10}Cl_2Zr$	*bis*(cyclopentadienyl)zirconium dichloride				[1291-32-3]
		108.5±4.6	(298)	ME	[01/3]
	(393–457)	100.3	(425)		[87/4]
		105.0±2.1	(298)		[82/20][76/14]
		100.4±1.7			[77/23]
		96.7			[69/20]
		103±13	(298)		[68/19][01/3]
$C_{12}H_{16}Zr$	*bis*(cyclopentadienyl)dimethylzirconium				[1291-32-3]
		81.2±2.1	(298)		[82/20][76/14]
$C_{20}H_4F_{24}O_8Zr$	*tetrakis*(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)zirconium(IV)				[19530-02-0]

TABLE 7. Enthalpies of sublimation of organometallic and inorganic compounds, 1910–2001—Continued

Element	Compound	$\Delta_{sub}H_m$/kJ mol^{-1}	(T_m/K)		CAS registry number
Molecular formula/polymorph	Temperature range (K)			Method	Reference
	(333–363)	59		TGA	[00/35]
	(366–456)	48.6±0.6(liq)	(411)	T	[96/2]
$C_{20}H_{16}F_{12}O_8Zr$	*tetrakis*(1,1,1-trifluoro-2,4-pentanedionato)zirconium(IV)				[17499-68-2]
	(373–403)	94		TGA	[00/35]
	(368–398)	133.6±2.0	(383)	SMZG	[96/2]
		118.7±3.1	(298)	C	[92/7]
	(383–438)	126.4±1.7		GS	[85/16]
	(383–438)	119.2±1.7		GS	[85/16]
$C_{20}H_{28}O_8Zr$	*tetrakis*(2,4-pentanedionato)zirconium(IV)				[17501-44-9]
	(413–443)	126		TGA	[00/35]
	(403–433)	138.8±2	(418)	SMZG	[96/2]
		125.8±2.9	(298)	C	[92/7]
		132.0±6.8	(463)		[87/14]
		116±34			[84/34]
$C_{22}H_{20}Zr$	*bis*(cyclopentadienyl)diphenylzirconium				[51177-89-0]
		92.0±4.2			[76/14]
$C_{32}H_{40}F_{12}O_8Zr$	*tetrakis*(1,1,1-trimethyl-5,5,5-trifluoro-2,4-pentanedionato) zirconium(IV)				[56044-44-1]
	(388–423)	134.9±1.6	(406)	SMZG	[96/2]
$C_{44}H_{28}N_4Zn$	5,10,15,20-tetraphenylporphine zinc(II)				[14074-80-7]
		208±4		GS	[00/36]
$C_{44}H_{76}O_8Zr$	*tetrakis*(2,2,6,6-tetramethylheptane-3,5-dionato)zirconium(IV)				[18865-74-2]
	(413–443)	120		TGA	[00/35]
$ZrCl_4$	zirconium tetrachloride				[10026-11-6]
	(405–518)	98.9±0.5	(512)	T	[94/22]
ZrF_4	zirconium tetrafluoride				[7783-64-4]
	(696–856)	240.0±0.1	(298)	TE	[94/36]
	(796)	243.0	(298)	MS	[65/14][94/36]
	(983–1177)	241.1±0.1	(298)		[64/9][94/36]
	(681–913)	242.6±1.7	(298)	MS	[63/9][94/36]
	(713–873)	232.3±1.2	(298)		[63/8][94/36]
	(983–1081)	239.9±0.2	(298)		[58/11][94/36]
	(890–1150)	241.8±0.6	(298)	GS	[54/9][94/36]

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U/2 C. H. D. van Ginkel, C. G. DeKruif, and F. E. B. de Waal (unpublished results).

U/3 H. Mackle, W. V. Steele, and D. V. McNally (unpublished results).

U/4 D. Stull (unpublished results).

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