

Heat Capacities and Entropies of Organic Compounds in the Condensed Phase Volume II

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This compilation of data on the heat capacities, entropies, and phase transitions of organic compounds in the condensed phase supplements the document published earlier on this subject, namely, "Heat Capacities and Entropies of Organic Compounds in the Condensed Phase" by E. S. Domalski, W. H. Evans, and E. D. Hearing, *J. Phys. Chem. Ref. Data*, **13**, Suppl. 1, (1984). It provides data on approximately 1300 organic compounds. About half of the articles examined contain data published prior to 1982. A total of 565 articles have been examined, evaluated, and referenced. In addition to values for the heat capacity and entropy at 298.15 K, phase transitions for solid/solid, solid/liquid, and in some instances, solid/gas and liquid/gas are tabulated as encountered from the articles examined and evaluated.

Key words: condensed phase; entropy; evaluated data; heat capacity; organic compounds; phase transitions; WLN.

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1. Introduction

This compilation provides heat capacity and entropy data on approximately 1300 organic compounds in the liquid and solid phases. Data on the enthalpies and entropies of phase transitions which have been determined from calorimetric measurements are also included. A total of 565 articles have been examined, evaluated, and referenced.

This compilation is a supplement to an earlier docu-

ment published in 1984, namely, "Heat Capacities and Entropies of Organic Compounds in the Condensed Phase" by E. S. Domalski, W. H. Evans, and E. D. Hearing, *J. Phys. Chem. Ref. Data*, **13**, Suppl. 1, (1984). Since 1984, two large compilations have been published which contain data on the thermodynamic properties of organic compounds in the condensed phase; they are:

"Thermodynamic Properties of Oxygen-Containing Organic Compounds", by I. A. Vasil'ev and V. M. Petrov, Handbook, Leningrad, 240 pages (1984).

"Thermodynamic Properties of Key Organic Oxygen Compounds in the Carbon Range C₁ to C₄. Part 1. Properties of Condensed Phases by R. C. Wilhoit, J. Chao, and K. R. Hall, *J. Phys. Chem. Ref. Data*, **14**, 1 (1985).

The latter two compilations were useful in assisting us with the completeness of our search of the literature for papers on heat capacities, entropies, and phase transition properties of organic oxygen compounds. The discus-

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sions on specific compounds provided by Wilhoit, Chao, and Hall were helpful in the assignment of a rating to our evaluation of those data.

2. Scope of the Search

References containing data on the heat capacities and entropies of organic compounds in the condensed phase were obtained through a search of the files of the Chemical Thermodynamics Data Center of the National Institute of Standards and Technology. Additional references were located through the Bulletin of Chemical Thermodynamics and through Chemical Abstracts. The original papers were examined to obtain the data which has been tabulated, to determine whether corrections should be applied, and to qualitatively evaluate the reported measurements.

Our previous publication [1], covered the literature from 1881 to the beginning of 1982. About half of the 565 papers referenced in this publication contain measurements performed for that same period of time with the remaining half covering the period from 1982 to most of 1989.

The goal of the search has been to obtain heat capacity and entropy data for organic compounds at "room temperature", however, the temperature range included is 200–450 K. This extended range was chosen so that the user would have, whenever possible, values for temperatures close to room temperature even if the measurement range did not include 298.15 K. Usually, the user can extrapolate such data to 298.15 K or to temperatures outside of the reported range if desired.

Values of the enthalpy and entropy of phase transitions — solid/solid, solid/liquid, as well as some solid/gas, and liquid/gas transitions — obtained from calorimetric measurements are included along with the data on heat capacity and entropy. No specific search was made for the transition properties. They are included as a by-product of the search for experimental heat capacity data.

Corrections for relative atomic mass (atomic weight), temperature scale, and energy units have been made, where appropriate. Values have been reported at "298 K" with the ice point taken as 273.1, 273.15, or 273.16 K; the correction for this small change is much less than the precision and accuracy of the data. Some researchers did not provide tabulated values of C_p and S as a function of temperature, but gave an equation, such as: $C_p = A + BT + CT^2$. In these cases, a value for C_p and/or S at 298 K was derived from the equation provided. Some researchers have provided only graphs of C_p as a function of temperature. For good quality graphs, estimates of C_p at 298 K were extracted and correspondingly identified. Care was taken to assure that heat capacity data reported in International Steam Table (IT) energy units were converted to the International System of Units (SI Units). Except for very precise data, corrections involving energy units for most measurements

since about 1930 are often within the uncertainty of the data. Older data are of lower precision so that corrections are not needed. In general, transition temperatures are those reported by the investigator. The effort to convert each investigator's temperature scale to the 1968 International Practical Temperature Scale (IPTS-68) was not warranted. Hence, the reported values may have a systematic error of up to 0.1 K. Fortunately, modern high-precision measurements are usually based on IPTS-68.

3. Arrangement of the Data

The table of heat capacities, entropies, and phase transitions given in this paper contains data entries for a variety of organic compounds. The entries here, as in the 1984 J. Phys. Chem. Ref. Data publication [1], are arranged in the order of the empirical formulae of the compounds; isomers are further separated by their Wiswesser Line Notation [2]. The latter notation system has been used to represent the structure of the organic compound. Under a given organic substance, the data from the pertinent papers are included. The data from each paper form a separate entry, complete with identification of the reference source. When there are several reference entries for a compound, they are arranged chronologically by year.

For each entry the data given are: molecular (empirical) formula for the compound, physical state, reference code, compound name(s), followed by the values for the heat capacity, entropy, and, where available, phase transition data. The entry of information is completed by the molecular weight, Wiswesser Line Notation for the compound, and a graduated indication of the quality of the data. The formula given is the empirical formula for the compound; water of hydration is shown as $\cdot(n)H_2O$. The elements are arranged in the order C, H(D, T), followed by the other elements in alphabetical order of their chemical symbols. One or more names are given for each compound. No attempt has been made to conform to a rigorously systematic nomenclature. Common names and systematic names are used; alternate names have been given freely. All names used appear in the Compound Name-Formula Index in Sec. 8, which should assist the reader who is aware of the compound name but not its empirical formula.

The bibliography is listed in Sec. 9. The reference code is of the form XXXAA/BBBN where XX are the last two digits of the year of publication of the paper, AAA is the first three letters of the last name of the first author and BBB is the first three letters of the last name of the second author (if present). Authors after the first two are disregarded. N is a digit from 2 to 9 used to indicate a second, third, ... paper with the same year and author codes. Thus, 60BRO/SMI2 refers to a paper by Brown and Smith appearing in 1960, the second one with authors BRO... and SMI...; 44JON is a 1944 paper by Jones. The full citation appears in the bibliography

arranged according to the reference codes. For papers published before 1900, all four digits for the year are used.

When authors have given a table of smoothed values for the heat capacity, the value at 298 K (interpolated if necessary) or the value nearest to that temperature is given. If experimental measurements are represented only by a smoothing equation, this is used to calculate the value given. If only the unsmoothed experimental results are given by the authors, one of these is given, with the corresponding temperature. Such a selection is accompanied by a remark.

The third-law entropy is given at 298 K or at the temperature closest to this temperature. The value is that obtained by the authors; we have not reintegrated the heat capacity data to re-evaluate the entropy.

Phases are indicated by g, liq, c, c,I, c,II, etc. In general, no attempt has been made to specify the crystalline form of the solid phases; c,I is used for the form stable at the melting point. For each phase transition, the appropriate process, i.e., c/liq, the temperature in kelvins, the enthalpy and entropy change for the isothermal process, and when appropriate, the pressure, are given. The entropy change ΔS is taken as $\Delta H/T$ unless indicated otherwise. Energy values are given in joules and can be related to the thermochemical calorie by the conversion factor: 4.1840 joules equals one thermochemical calorie. Pressures are given in kilopascals; one standard atmosphere is 101.325 kPa.

The molecular weight is based upon the 1987 IUPAC Table of International Atomic Weights [3]. Two exceptions are made; the atomic weights of hydrogen, nitrogen, and fluorine are taken as 1.0079, 14.0067, and 18.9984 rather than 1.00794, 14.00674, and 18.9984032, respectively. When the molecular weight differs from that originally used by the authors, appropriate corrections to the values have been made.

An indication of our general evaluation of the data reported is given as A (high quality), B (good), C (average), and D (low quality). This rating is based upon the method used, the details of the measurements as reported, the number of measurements, purity of the sample, calibrations, and corrections applied to the data; it is intended as a guide to those data we feel are more reliable. In addition, the number of significant figures given for the numerical values indicates roughly the quality of the data. In general, papers that are rated as being of high quality provide a detailed description of the cryostat used, the experimental procedure, the purity and characterization of the sample, calibration results, both raw and smoothed data for the temperature range over which measurements were made, and comment on the precision and accuracy of their data. An absence of numerical or descriptive information, or poor agreement with a detailed and accurate study can lead to a low rating.

All of the names used to identify the compounds are included in the Compound Name-Formula Index with the appropriate empirical formulae. Prefixes such as *tert*-,

ortho-, α -, 1,2-, (but not *Iso*) are disregarded in the alphabetization of the names.

The sequencing of the compounds is based on the empirical formula. The formulae are sorted alphabetically by the first atomic symbol, then by the number of atoms of this element present (the Hill Indexing System [4]). As was the practice with the 1984 J. Phys. and Chem. Ref. Data publication [1], C, carbon, is always the first element. This arranged list of formulae is then sorted by the second atomic symbol (H, hydrogen, if present), and then by the number of atoms of this element. The sorting proceeds alphabetically thereafter for each element present. The following list illustrates this scheme:

C
 CCl₄
 CHCl₃
 CH₄
 CO₂
 C₂Cl₃O₂
 C₂H₂Cl₂
 C₂H₃Cl
 C₂H₄
 C₂H₄O₂
 C₂H₆
 C₂H₆O

Isomeric compounds are further sorted by their Wiswesser Line Notation:

C ₄ H ₁₀ O	2O2	C ₂ H ₅ OC ₂ H ₅
	3O1	C ₃ H ₇ OCH ₃
	Q1Y1&1	(CH ₃) ₂ CHCH ₂ OH
	QX1&1&1	(CH ₃) ₃ COH
	QY2&1	C ₂ H ₅ CH(CH ₃)OH

4. Definitions

Heat Capacity. The heat capacity is defined as the derivative of the energy of the system with respect to the temperature under specified conditions. The heat capacity may be stated as an average value over a temperature range or the limiting value over an infinitesimal temperature change. If the system is maintained at constant volume, the heat capacity, C_v , is given by the derivative of energy with respect to temperature,

$$C_v = (\partial U / \partial T)_v$$

where U is the internal energy.

If the system is maintained at constant pressure, the heat capacity, C_p , is given by:

$$C_p = (\partial H / \partial T)_p$$

where H is the enthalpy.

The values of heat capacity reported in this paper are those at constant pressure and correspond to one mole of a specified substance; the units are thus, J·mol⁻¹·K⁻¹.

Experimentally, the heat capacity, C_p , is obtained from the enthalpy change at constant pressure over a small temperature change. This value is associated with the temperature at the midpoint of the temperature range:

$$C_p = \Delta H / (T_2 - T_1) \text{ at } (T_1 + T_2) / 2.$$

Actual heat capacity measurements, or C_{sat} , for liquids and solids are normally made with the sample in equilibrium with its own vapor or saturation pressure; the correction from C_{sat} to C_p at the standard pressure, 101.325 kPa (1 atm) is usually negligible for solids and for liquids below their boiling point. For volatile organic compounds in the condensed phase, a correction for the enthalpy of vaporization of the condensed phase as well as the heat capacity of the vapor phase must be applied.

For nonvolatile solid organic compounds, the relationship between C_p and C_{sat} is given by:

$$C_p - C_{\text{sat}} = [T(\partial P / \partial T)_{\text{sat}}][(\partial V / \partial T)_p]$$

where $(\partial P / \partial T)_{\text{sat}}$ is the slope of the vapor or saturation pressure curve and $(\partial V / \partial T)_p$ is the volume expansivity of the solid. Again, the magnitude of this correction is usually negligible.

Entropy. For totally reversible processes, the entropy change of a system is equal to the amount of heat, Q , absorbed by the system divided by the temperature, T . For an infinitesimal change in entropy:

$$dS = dQ / T.$$

Entropy and heat capacity are related by the following expressions:

$$\begin{aligned} (\partial S / \partial T)_v &= C_v / T, \text{ at constant volume,} \\ (\partial S / \partial T)_p &= C_p / T, \text{ at constant pressure,} \\ (\partial S / \partial T) &= C_{\text{sat}} / T, \text{ at equilibrium vapor pressure} \\ &\text{along the two phase line.} \end{aligned}$$

The (calorimetric) entropy is obtained by integration of the measured values of C_p / T from the lowest temperature of measurement to the reported temperature. Various methods have been used to extrapolate from the lowest experimental temperature to zero kelvin. Appropriate values of the entropies of phase changes must be added. The entropy at zero kelvin is taken as zero for the stable crystalline state, with the addition of residual (zero point) entropy, not removed by the extrapolation, due to non-random ordering, optical isomerism, or multiple electronic ground states for the molecule. Thus,

$$\begin{aligned} S_T^\circ &= S_0^\circ (\text{zero point}) + \int_0^{T_1} (C_p / T) dT (\text{extrapolation}) + \\ &\int_{T_1}^{T_2} (C_p / T) dT + \Delta H_{T_2} / T_2 (\text{phase change}) + \\ &\int_{T_2}^{T_3} (C_p / T) dT + \Delta H_{T_3} / T_3 (\text{phase change}) + \\ &\int_{T_3}^{T_4} (C_p / T) dT \end{aligned}$$

For additional discussions on the concept of entropy, the reader should consult references [5] and [6].

Phase Transitions. A process by which a substance undergoes a change of physical state, i.e., solid-solid, solid-liquid, solid-gas, or liquid-gas, is known as a phase transition or phase change. The phase change is accompanied by a transfer of energy (commonly referred to as latent heat) and a change in volume while both temperature and pressure remain constant. For a phase change which is carried out reversibly (i.e., under equilibrium conditions) at a constant temperature and pressure, the total Gibbs energy remains unchanged. If there is an enthalpy (or heat) change, then it follows that there will also be an entropy change for the process, because:

$$\Delta H - \Delta ST = 0, \text{ or } \Delta S = \Delta H / T.$$

These equations are applicable only for the temperature and pressure at which the phases are in equilibrium.

For phase changes — solid-solid, solid-liquid, solid-gas, liquid-gas — encountered in the accompanying tables in Sec. 7, ΔH refers to the isothermal enthalpy change at the transition temperature. Corrections can be applied to the experimental data for premelting effects to isothermal conditions. The pressure, unless specified, is the vapor pressure of the substance at the transition temperature; the correction to a standard state pressure is usually negligible at ordinary pressures for a solid-solid transition and for fusion. The entropy change is taken as $\Delta H / T$ at the equilibrium pressure.

Some investigators have reported the measurement of anomalous phase changes in which the volume and entropy are continuous, but the heat capacity is discontinuous. During such phase changes no latent heat is present and the shape of the curve of the heat capacity plotted as a function of temperature often resembles the Greek letter lambda at the transition point. Such a transition is called a "lambda transition". In order to differentiate these anomalous transitions from ordinary phase changes, it has become customary to identify normal phase changes as phase changes of the first order and atypical phase changes as those of the second order. The discontinuity which occurs in a first order phase transition is a commonly observed phenomenon; however, the discontinuity associated with a second order phase transition has been more difficult to identify and/or interpret. Sometimes the discontinuous nature of the heat capacity is questioned in a second order transition because experimental measurements show a peak or a hump at the transition temperature rather than an unambiguous discontinuity.

A phase change which is accompanied by changes in the entropy and volume and whose first-order derivatives of the Gibbs energy with respect to temperature and pressure change discontinuously is known as a phase change of the first order,

$$S = -(\partial G / \partial T)_p, \text{ and } V = (\partial G / \partial P)_T.$$

A phase change which is accompanied by changes in the heat capacity, volume expansivity, and isothermal compressibility and whose second order derivatives of the Gibbs energy with respect to temperature and pressure change discontinuously is known as a phase change of the second order,

$$C_p/T = (\partial S/\partial T)_p = -(\partial^2 G/\partial T^2)_p$$

$$KV = -(\partial V/\partial P)_T = -(\partial^2 G/\partial P^2)_T$$

$$\beta V = (\partial V/\partial T)_p = (\partial^2 G/\partial T\partial P)_{T,P},$$

where K is the isothermal compressibility and β is the volume expansivity. The relationship between these quantities and the pressure and temperature is given below by Ehrenfest's eq. [7].

$$dP/dT = [C_p(f) - C_p(i)]/[TV(\beta(f) - \beta(i))],$$

$$dP/dT = [\beta(f) - \beta(i)]/[K(f) - K(i)],$$

where i and f represent the initial and final states of the phase change.

For additional discussion regarding first and second order phase transitions, the reader should consult references [8, 9, and 10].

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6. References for the Introductory Discussion

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7. Table of Heat Capacities, Entropies, and Phase Transition Properties

C (c)	73BUT/MAD	<p>Graphite; Carbon, graphite Heat Capacity 300 K, $C_p = 8.6186 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 200 to 3500 K. Least squares fit of 'best' data gives: $C_p = 0.538657 + 9.11129 \times 10^{-6}T - 90.2725T^{-1} - 43449.3T^{-2} + 1.59309 \times 10^7 T^3 - 1.43688 \times 10^9 T^{-4} \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ (250 to 3000 K). Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation A Results from an evaluation of literature data.</p>	87DOB/PER
C (c)	84BIC/MIN	<p>Carbon; Graphite Heat Capacity 350 K, $C_p = 10.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 1800 K. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation A POCO AXM-5Q1 graphite.</p>	
C (c)	73MAR/VOL	<p>Graphite; Carbon, graphite, single-crystal Heat Capacity 298.15 K, $C_p = 8.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 1 to 3000 K. $C_p = 0.6752 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Entropy 298.15 K, $S^\circ = 5.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S_7^\circ = 0.4585 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation A Results from an evaluation of literature data.</p>	82MAR
CCl ₃ F (liq)	82MAR	<p>Fluorotrichloromethane; Freon 11 Phase Changes c/liq 165.4 K, $\Delta H = 7900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 137.3684 Wiswesser Line Notation GXFGG Evaluation C</p>	
C (c)	76VOL/BUC	<p>Diamond; Carbon, diamond Heat Capacity 300 K, $C_p = 6.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 1200 K. Natural diamond; C_p calculated by extrapolation of value at 350 K. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation C</p>	57HAR/MOE
CCl ₄ (liq)	57HAR/MOE	<p>Carbon tetrachloride; Tetrachloromethane Heat Capacity 303.3 K, $C_p = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 254 to 303 K. Unsmoothed experimental datum. Molecular Weight 153.8230 Wiswesser Line Notation GXGGG Evaluation C</p>	
C (c)	76VOL/BUC	<p>Diamond; Carbon, diamond Heat Capacity 300 K, $C_p = 6.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 75 to 1200 K. SAM synthetic diamond. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation C</p>	76FOR/BEN2
CCl ₄ (liq)	76FOR/BEN2	<p>Carbon tetrachloride; Tetrachloromethane Heat Capacity 298.15 K, $C_p = 131.401 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 153.8230 Wiswesser Line Notation GXGGG Evaluation A</p>	
C (c)	76VOL/BUC	<p>Diamond; Carbon, diamond Heat Capacity 300 K, $C_p = 6.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 75 to 1200 K. Ballas synthetic diamond. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation C</p>	76MOR/RIC
CCl ₄ (liq)	76MOR/RIC	<p>Carbon tetrachloride; Tetrachloromethane Phase Changes c,II/c,I 225.7 K, $\Delta H = 4631 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 20.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (c,II/c,Ib) c,I/liq 250.53 K, $\Delta H = 2562 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.226 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (c,Ib/liq). Data also given for (c,Ia/liq): 246.00 K, $\Delta H = 1830 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 153.8230 Wiswesser Line Notation GXGGG Evaluation A</p>	
C (c)	81ISA/WAN	<p>Graphite; Carbon, graphite Heat Capacity 300 K, $C_p = 10.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 80 to 300 K. $C_p = 8.729 \times 10^{-4}T + 6.27 \times 10^{-6}T^2 + 6.309 \times 10^{-9}T^3 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Value calculated from equation. Molecular Weight 12.0110 Wiswesser Line Notation C Evaluation B POCO process graphite (POCO AXM-5Q1).</p>	77VES/SVO
CCl ₄ (liq)	77VES/SVO	<p>Carbon tetrachloride; Tetrachloromethane Heat Capacity 298.15 K, $C_p = 131.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298 to 318 K. Molecular Weight 153.8230 Wiswesser Line Notation GXGGG Evaluation B</p>	

CF₃Br (liq)	84STO/CHA	CHO₂Tl (c)	76MEI/SEY
Bromotrifluoromethane		Thallium formate	
Heat Capacity 293 K,	$C_p = 163.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 163 to 293 K.		c,l/liq 374 K,	$\Delta H = 10878 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 148.9102			$\Delta S = 28.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation FXEFF		Solid-mesophase.	
Evaluation C		Molecular Weight 249.3877	
		Wiswesser Line Notation VHO .TL	
		Evaluation B	
CF₄ (liq)	69ENO/SHI	(CH₂)_n (c)	57SOC/TRA
Carbon tetrafluoride; Tetrafluoromethane; Freon 14		Polyethylene	
Heat Capacity		Heat Capacity 270 K,	$C_p = 24.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 4 to 100 K.		Temperature Range 58 to 270 K.	
Phase Changes		C_p value is unsmoothed experimental datum.	
c,II/c,I 76.09 K,	$\Delta H = 1462.3 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 14.0268	
	$\Delta S = 19.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation /*1*/	
c,l/liq 89.529 K,	$\Delta H = 705.4 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 7.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 88.0046		(CH₂)_n (c)	61WAR/PET
Wiswesser Line Notation FXFFF		Polyethylene	
Evaluation A		Heat Capacity 300 K,	$C_p = 31.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 10 to 320 K. Interpolated data.	
(CH)_n (c)	83LEI/KAH	Entropy 300 K,	$S = 25.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Polyacetylene		Molecular Weight 14.0268	
Heat Capacity 300 K,	$C_p = 60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation /*1*/	
Temperature range 60 to 300 K. Cis isomer.		Evaluation A	
$C_p = 40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ for trans isomer.		Branched, high pressure polyethylene.	
Data given graphically. Data estimated from graph.			
Molecular Weight 13.0189		(CH₂)_n (c)	62WUN
Wiswesser Line Notation /*YUY*/		Polyethylene	
Evaluation D		Heat Capacity 300 K,	$C_p = 24.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 1 to 420 K.	
CHBr₃ (liq)	84GOL/KOL	Extrapolated value to 100% crystalline phase.	
Tribromomethane; Bromoform		Entropy 300 K,	$S = 24.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 281.84 K,	$\Delta H = 11046 \text{ J}\cdot\text{mol}^{-1}$	c/liq 415 K,	$\Delta H = 3879 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 39.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 9.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 252.7309		Molecular Weight 14.0268	
Wiswesser Line Notation EYEE		Wiswesser Line Notation /*1*/	
Evaluation A		Evaluation A	
		(CH₂)_n (amorph)	62WUN
CHCl₃ (liq)	57HAR/MOE	Polyethylene	
Trichloromethane; Chloroform		Heat Capacity 300 K,	$C_p = 32.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 303.2 K,	$C_p = 114.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 1 to 420 K.	
Temperature range 245 to 303 K.		Extrapolated value to 100% amorphous phase.	
Unsmoothed experimental datum.		Entropy 300 K,	$S = 31.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 119.3779		Phase Changes	
Wiswesser Line Notation GYGG		c/liq 415 K,	$\Delta H = 3879 \text{ J}\cdot\text{mol}^{-1}$
Evaluation C			$\Delta S = 9.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 14.0268	
CHNaO₂ (c)	83FRA/PLA	Wiswesser Line Notation /*1*/	
Sodium methanoate; Sodium formate		Evaluation A	
Heat Capacity 298.15 K,	$C_p = 87.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(CH₂)_n (c)	78STE
Temperature range 300 to 520 K.		Polyethylene	
C_p data taken from 60WES/CHA in temperature range 5 to 350 K.		Heat Capacity 298.15 K,	$C_p = 25.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 103.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	One temperature.	
S data taken from 60WES/CHA.		Molecular Weight 14.0268	
Phase Changes		Wiswesser Line Notation /*1*/	
c,II/c,I 491.5 K,	$\Delta H = 1214 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 2.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
c,l/liq 530.46 K,	$\Delta H = 17710 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 33.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 68.0075			
Wiswesser Line Notation VHO .NA			
Evaluation A			

CH₂Cl₂ (liq) Dichloromethane; Methylene dichloride Heat Capacity 303.2 K, Temperature range 244 to 303 K. Unsmoothed experimental datum. Molecular Weight 84.9328 Wiswesser Line Notation G1G Evaluation C	57HAR/MOE $C_p = 105.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄ (c) Methane Heat Capacity Temperature range 0.4 to 28 K. Phase Changes c,II/c,I 20.53 K, $\Delta H = 93.55 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.557 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Lambda transition. c,I/liq 90.67 K, $\Delta H = 939.2 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ liq/g 99.54 K, $\Delta H = 8519 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 85.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $p = 32.81 \text{ kPa}$ Data from 37FRA/CLU and 39FRA/CLU. Molecular Weight 16.0426 Wiswesser Line Notation 1H Evaluation A	76VOG/PIT $\Delta H = 93.55 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.557 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 939.2 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 8519 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 85.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $p = 32.81 \text{ kPa}$
CH₂N₂ (c) Cyanamid Heat Capacity 300 K, Temperature range 90 to 300 K. Linearly extrapolated. Phase Changes c/liq 318.71 K, $\Delta H = 7272 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 22.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 42.0402 Wiswesser Line Notation ZCN Evaluation B(C_p), A(Phase changes).	83DEW/DEK $C_p = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄N₂O (c) Urea Heat Capacity 298 K, One temperature. C_p given as $0.321 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 60.0554 Wiswesser Line Notation ZVZ Evaluation D	03MAG $C_p = 80.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₃Cl₃Si (liq) Trichloromethylsilane Heat Capacity 298.15 K, Temperature range 14 to 307 K. Data deposited VINITI, No 2423-71, 17 December, 1970. $C_p(\text{liq}) = 25.5286 + 0.04132T + 100930T^{-2}$ (197.37 to 300 K) $\text{cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Entropy 298.15 K, Phase Changes c/liq 197.37 K, $\Delta H = 8945 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 149.4792 Wiswesser Line Notation G-SI-GG1 Evaluation A Debye temperature = 98.84 K.	71SAM/KOS2 $C_p = 163.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 262.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄N₂O (c) Urea Heat Capacity Temperature range 323 to 493 K. Equation only: $C_p = 523.38 - 265.60 \times 10^{-2}T + 41.50 \times 10^{-4}T^2$. Phase Changes c/liq 405.8 K, $\Delta H = 13610 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 60.0554 Wiswesser Line Notation ZVZ Evaluation B Dry sample.	80VOG/SCH $\Delta H = 13610 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₃NO (liq) Formamide; Methanamide Heat Capacity 298.15 K, One temperature. Molecular Weight 45.0408 Wiswesser Line Notation ZVH Evaluation A	76SKO/SUU $C_p = 107.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄N₂O (c) Urea Heat Capacity 298.15 K, Temperature range 5 to 400 K. $4.98 \times 10^{-2}T + 7.05 \times 10^{-4}T^2 - 8.61 \times 10^{-7}T^3$ (240 to 400 K). Entropy 298.15 K, Phase Changes c/liq 405.8 K, $\Delta H = 13900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 34.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 60.0554 Wiswesser Line Notation ZVZ Evaluation A	86KOZ/DAL $C_p = 93.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $C_p = 38.43 +$ $S = 104.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₃NO (liq) Formamide; Methanamide Heat Capacity 298.15 K, Temperature range 90 to 290 K. $C_p = 89.88 + 0.05947 (T/K) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (275 to 300 K). Phase Changes c/liq 275.60 K, $\Delta H = 8667 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 31.448 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 45.0408 Wiswesser Line Notation ZVH Evaluation A	83DEW/DEK $C_p = 107.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄N₂O (c) Urea Phase Changes c/liq 406.5 K, $\Delta H = 14790 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 60.0554 Wiswesser Line Notation ZVZ Evaluation A	87DEL/FER $\Delta H = 14790 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

CH₄N₂O (c) Urea Heat Capacity 304.7 K, Temperature range 303 to 413 K. Phase Changes c/liq 406 K, Molecular Weight 60.0554 Wiswesser Line Notation ZVZ Evaluation B	88GAM/BRO $C_p = 94.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 35.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄O (liq) Methanol; Methyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation B	88OKA/OGA $C_p = 80.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄N₂S (c) Thiourea Heat Capacity 298.15 K, Temperature range 5 to 298.15 K Entropy 298.15 K, Molecular Weight 76.1160 Wiswesser Line Notation ZYZUS Evaluation A Anomalies occur at: 169.3 K, $\Delta S = 0.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; 171.2 K, $\Delta S = 0.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; 200 K, $\Delta S = 0.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. A slight hump in the heat capacity appears between 210 and 260K.	67WES/CHA $C_p = 96.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 115.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄O (gls) Methanol; Methyl alcohol Heat Capacity 120 K, Temperature range 20 to 120 K. Phase Changes c/gls 103 K, Glass transition. c/liq 175.22 K Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation A	68SUG/SUG $C_p = 68.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1540 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄N₂S (c) Thiourea Heat Capacity 298.15 K, One temperature. C_p data given as $1.273 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Data from 67WES/CHA. Phase Changes c/g 298.15 K, Molecular Weight 76.1160 Wiswesser Line Notation ZYZUS Evaluation B	82TOR/SAB $C_p = 96.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 112000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 375.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₄N₂S\cdotHNO₃ (c) Thiourea nitrate Heat Capacity 298.15 K, Temperature range 8 to 330 K. Entropy 298.15 K, Phase Changes c,II/c,I 265.3 K, Molecular Weight 139.1288 Wiswesser Line Notation ZYZUS &WNQ Evaluation A	84NUR/BER $C_p = 175.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 213.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 34.0 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄O (liq) Methanol; Methyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation B	82VIL/CAS $C_p = 81.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₅N₃O (c) Semicarbazide Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Molecular Weight 75.0700 Wiswesser Line Notation ZVMZ Evaluation A	86LEB/KUL $C_p = 110.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 119.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄O (liq) Methanol; Methyl alcohol Heat Capacity 298.15 K, Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation B	84ZEG/SOM $C_p = 81.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₅N₃S (c) Thiosemicarbazide Heat Capacity 298.15 K, One temperature. C_p data given as $1.217 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Phase Changes c/g 298.15 K, Molecular Weight 91.1306 Wiswesser Line Notation ZYMZUS Evaluation B	82TOR/SAB $C_p = 110.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 125800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 421.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄O (liq) Methanol; Methyl alcohol Heat Capacity 298 K, Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation B	86KOR/KUK $C_p = 81.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	CH₅N₃S (c) Thiosemicarbazide Heat Capacity 298.15 K, Temperature range 8 to 330 K. Entropy 298.15 K, Phase Changes c,II/c,I 268.9 K, Molecular Weight 91.1306 Wiswesser Line Notation ZYMZUS Evaluation A	84NUR/BER $C_p = 114.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 128.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 70.0 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.250 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CH₄O (liq) Methanol; Methyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 32.0420 Wiswesser Line Notation Q1 Evaluation A	86TAN/TOY $C_p = 81.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

CH₃IN (c)	86YAM/OGU	C₂Cl₃F₃ (liq)	88VES/ZAB
Methylammonium iodide		1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 113	
Heat Capacity 298.15 K,	$C_p = 93.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 172.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 300 K.		Temperature range 298 to 318 K.	
Entropy 298.15 K,	$S = 160.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 113.21 + 0.1991(T/\text{K})$ (240 to 337 K).	
Phase Changes		Molecular Weight 187.3762	
c,II/c,I 166.1 K		Wiswesser Line Notation GXGFXGFF	
Undercooled α' to metastable δ .		Evaluation A	
Molecular Weight 158.9696		C₂Cl₃F₃ (liq)	87OTT/WOO
Wiswesser Line Notation Z1 &IH		1,1,1-Trichlorotrifluoroethane	
Evaluation A		Phase Changes	
Data given for β' phase from 10 to 220 K.		c,II/c,I 148 K	
β' to α' phase transition at 220 K,		Solid-plastic crystal.	
$\Delta H = 2970 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 13.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		c,I/liq 287.52 K,	$\Delta H = 4110 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 187.3762	
		Wiswesser Line Notation GXGGXFFF	
		Evaluation A	
CH₂N₄S (c)	82TOR/SAB	C₂Cl₃F₃ (liq)	88SVO/VES
Thiocarbohydrazide		1,1,1-Trichlorotrifluoroethane	
Heat Capacity 298.15 K,	$C_p = 125.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.16 K,	$C_p = 168.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature. C_p data given as $1.180 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Temperature range 298.15 to 318.15 K.	
Phase Changes		$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 109.0 + 0.200(T/\text{K})$ (298 to 318 K).	
c/g 298.15 K,	$\Delta H = 152100 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 187.3762	
	$\Delta S = 510.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation GXGGXFFF	
		Evaluation A	
Molecular Weight 106.1452		C₂Cl₄ (liq)	86NOV/RAB
Wiswesser Line Notation ZMYMZUS		Tetrachloroethylene; Tetrachloroethene	
Evaluation B		Heat Capacity 298.15 K,	$C_p = 157.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 6 to 300 K.	
		Entropy 298.15 K,	$S = 240.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
		c,II/c,I 125-210 K,	$\Delta H = 820 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 5.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c/liq 250.81 K,	$\Delta H = 10880 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 43.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 165.8340	
		Wiswesser Line Notation GYGUYGG	
		Evaluation A	
C₂Br₂F₄ (liq)	88VES/ZAB	C₂Cl₄F₂ (c)	84GOL/KOL
1,2-Dibromotetrafluoroethane		1,1,1,2-Tetrachlorodifluoroethane	
Heat Capacity 298.15 K,	$C_p = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 298 to 318 K.		c/liq 314.2 K,	$\Delta H = 3990 \text{ J}\cdot\text{mol}^{-1}$
$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 131.53 + 0.1420(T/\text{K})$ (298 to 318 K).			$\Delta S = 12.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 259.8236		Molecular Weight 203.8308	
Wiswesser Line Notation FXFEXFFE		Wiswesser Line Notation GXGGXGFF	
Evaluation A		Evaluation A	
C₂CaO₄.H₂O (c)	33LAT/SCH	C₂Cl₆ (c)	50SEK/MOM
Calcium oxalate monohydrate		Hexachloroethane	
Heat Capacity 299.78 K,	$C_p = 152.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.5 K,	$C_p = 218.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature Range 19 to 300 K;		Temperature range 295 to 351 K.	
C_p value is unsmoothed experimental datum.		Unsmoothed experimental datum.	
Entropy 298.1 K,	$S = 156.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 146.1128		c,III/c,II 318 K,	$\Delta H = 2565 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation OVVO.CA &QH			$\Delta S = 8.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		c,II/c,I 345 K,	$\Delta H = 8222 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 23.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq 458 K,	$\Delta H = 9749 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 23.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 236.7400	
		Wiswesser Line Notation GXGGXGGG	
		Evaluation B(C_p), A(Phase changes)	
C₂ClF₃ (liq)	84GOL/KOL	C₂Cl₃F₃ (liq)	84GOL/KOL
Chlorotrifluoroethene; Chlorotrifluoroethylene;		1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 113	
Trichlorofluoroethene; Trichlorofluoroethylene		Phase Changes	
Phase Changes		c/liq 273.93 K,	$\Delta H = 2326 \text{ J}\cdot\text{mol}^{-1}$
c/liq 118.3 K,	$\Delta H = 5282 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 8.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 44.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.4702			
Wiswesser Line Notation GYFUYYF			
Evaluation A			

C₂D₁₂C₁₆N₂Sn (c)	88MAT/YAN	C₂HBrClF₃ (liq)	88VES/ZAB
Bis(methylammonium- <i>d</i> ₆) hexachlorostannate (IV)		2-Bromo-2-chloro-1,1,1-trifluoroethane	
Heat Capacity 298.15 K,	$C_p = 321.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 156.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature Range 13 to 300 K		Temperature range 298 to 318 K.	
Entropy 298.15 K,	$S = 498.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 107.69 + 0.1639(T/\text{K})$ (298 to 318K).	
Phase Changes		Molecular Weight 197.3821	
c,II/c,I	$\Delta H = 2810 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation GYEXFFF	
	$\Delta S = 21.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Order/disorder transition			
Molecular Weight 407.6512		C₂HCl₃ (liq)	84GOL/KOL
Wiswesser Line Notation 1ZH 2 -SN- G6 &1/H-2 3 &2/H-2 3		Trichloroethene; Trichloroethylene	
Evaluation A		Phase Changes	
		c/liq	188.5 K,
			$\Delta H = 8450 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 44.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 131.3889	
		Wiswesser Line Notation GYGU1G	
		Evaluation A	
C₂F₂O₂ (liq)	71HOD	C₂HCl₃O₂ (c)	1895PIC
Oxalyl fluoride		Trichloroacetic acid	
Heat Capacity		Heat Capacity 289–320 K,	$C_p = 314 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 13 to 270 K.		Temperature range 289 to 356 K.	
Phase Changes		Phase Changes	
c/liq	260.73 K,	c/liq	332.25 K,
	$\Delta H = 13407 \text{ J}\cdot\text{mol}^{-1}$		$\Delta H = 5898 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 51.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 17.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
liq/g	270.13 K,		
	$\Delta H = 28255 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 94.0176		Molecular Weight 163.3877	
Wiswesser Line Notation FVVVF		Wiswesser Line Notation QVXGGG	
Evaluation A		Evaluation D	
C₂F₄O (liq)	71HOD	(C₂H₂Cl₂)_n (gls)	67LEB/RAB
Trifluoroacetyl fluoride		Polyvinylidene chloride	
Heat Capacity		Heat Capacity 298.15 K,	$C_p = 83.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 214 K.		Temperature range 58 to 300 K.	
Phase Changes		Entropy 298.15 K,	$S = 86.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	113.69 K,	Molecular Weight 96.9432	
	$\Delta H = 4869 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation /*XGG1*/	
	$\Delta S = 42.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
liq/g	214.10 K,		
	$\Delta H = 19267 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 89.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.0150			
Wiswesser Line Notation FXFFVF			
Evaluation A			
C₂HBrClF₃ (liq)	84GOL/KOL	C₂H₂Cl₂O₂ (liq)	1895PIC
2-Bromo-2-chloro-1,1,1-trifluoroethane		Dichloroacetic acid; Dichloroethanoic acid	
Phase Changes		Heat Capacity 291–323 K,	$C_p = 207 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	157.4 K,	Temperature range 253 to 323 K.	
	$\Delta H = 4840 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 30.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq	283.95 K,
Molecular Weight 197.3821			$\Delta H = 7644 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation GYEXFFF			$\Delta S = 26.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Molecular Weight 128.9426	
		Wiswesser Line Notation QVYGG	
		Evaluation D	
C₂HBrClF₃ (liq)	84GOL/KOL	C₂H₂Cl₄ (liq)	82KOS/KOL
1-Bromo-2-chloro-1,1,2-trifluoroethane		1,1,2,2-Tetrachloroethane	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 165.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	146.2 K,	Temperature range 8 to 300 K.	
	$\Delta H = 4380 \text{ J}\cdot\text{mol}^{-1}$	Entropy 298.15 K,	$S = 244.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 29.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 197.3821		c,II/c,I	207.3 K,
Wiswesser Line Notation GYFXFFE			$\Delta H = 544 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 2.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
			$\Delta H = 9172 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 39.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂HBrClF₃ (liq)	88VES/ZAB	c,I/liq	230.8 K,
1-Bromo-2-chloro-1,1,2-trifluoroethane			
Heat Capacity 298.15 K,	$C_p = 160.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 167.8498	
Temperature range 298 to 318 K.		Wiswesser Line Notation GYGYGG	
$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 115.64 + 0.1501(T/\text{K})$ (298 to 318 K).		Evaluation A	
Molecular Weight 197.3821		Data for (c,I).	
Wiswesser Line Notation GYFXFFE			
Evaluation A			

C₂H₂Cl₄ (liq)	82KOS/KOL	(C₂H₃Cl)_n (gls)	67LEB/RAB
1,1,2,2-Tetrachloroethane		Polyvinyl chloride	
Heat Capacity 298.15 K,	$C_p = 165.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 59.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 8 to 300 K.		Temperature range 58 to 300 K.	
Entropy 298.15 K,	$S = 247.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Value per monomer unit.	
Phase Changes		Entropy 298.15 K,	$S = 65.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 204.8 K,	$\Delta H = 356 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 62.4984	
	$\Delta S = 1.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation /*YG1*/	
c,II/liq 230.3 K,	$\Delta H = 9521 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 41.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 167.8498		C₂H₃ClO₂ (c)	1895PIC
Wiswesser Line Notation GYGYGG		Monochloroacetic acid; Chloroacetic acid	
Evaluation A		Heat Capacity 288–318 K,	$C_p = 144 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Data for (c,II).		Temperature range 288 to 349 K.	
		Phase Changes	
C₂H₂CuO₄·4D₂O (c)	76MAT/KUM	c/liq 334.33 K,	$\Delta H = 16296 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Copper (II) formate tetrahydrate		α -Isomer.	
Heat Capacity 300.16 K,	$C_p = 329.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 329.16 K,	$\Delta H = 13933 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 300 K.		β -Isomer.	
Unsmoothed experimental datum.		Molecular Weight 94.4975	
Phase Changes		Wiswesser Line Notation QV1G	
c,II/c,I 245.64 K,	$\Delta H = 936.9 \text{ J}\cdot\text{mol}^{-1}$	Evaluation D	
	$\Delta S = 3.814 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 233.7054		C₂H₃Cl₃ (liq)	82MAR
Wiswesser Line Notation OVH 2 .CU &QH4 &14/H-2 8		1,1,1-Trichloroethane; Methylchloroform	
Evaluation B		Phase Changes	
		c,II/c,I 224.5 K,	$\Delta H = 7470 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂H₂CuO₄·4H₂O (c)	76MAT/KUM	c,I/liq 240.9 K,	$\Delta H = 1550 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Copper (II) formate tetrahydrate			
Heat Capacity 295.47 K,	$C_p = 290.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 133.4047	
Temperature range 12 to 300 K.		Wiswesser Line Notation GXGG1	
Unsmoothed experimental datum.		Evaluation C	
Phase Changes		C₂H₃Cl₃ (c)	88MAR/MON
c,II/c,I 235.78 K,	$\Delta H = 836.0 \text{ J}\cdot\text{mol}^{-1}$	1,1,1-Trichloroethane; Methylchloroform	
	$\Delta S = 3.546 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 225 K,	$C_p = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 225.6422		Temperature range 10 to 225 K. Data given graphically	
Wiswesser Line Notation OVH 2 .CU &QH4		and estimated from graph.	
Evaluation B		Molecular Weight 133.4047	
		Wiswesser Line Notation GXGG1	
C₂H₃Cl (liq)	67LEB/RAB	Evaluation A	
Vinyl chloride		C₂H₃LiO₂·2H₂O (c)	84MEI/GRO
Heat Capacity 298.15 K,	$C_p = 89.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Lithium acetate dihydrate	
Temperature range 58 to 300 K.		Heat Capacity 298.15 K,	$C_p = 169.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 118.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 270 to 400 K.	
Phase Changes		Phase Changes	
c/liq 119.31 K,	$\Delta H = 4916 \text{ J}\cdot\text{mol}^{-1}$	c/aq 324.71 K,	$\Delta H = 24250 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 74.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 41.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Transition of dihydrate to anhydrous salt and aqueous solution.	
Molecular Weight 62.4987		Molecular Weight 102.0159	
Wiswesser Line Notation G1U1		Wiswesser Line Notation OV1 .LI &QH 2	
Evaluation B		Evaluation B	
(C₂H₃Cl)_n (c)	55ALF/DOL	C₂H₃N (liq)	82MAR
Polyvinyl chloride		Acetonitrile; Methyl cyanide	
Heat Capacity 298 K,	$C_p = 59.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 253 to 393 K.		c,II/c,I 218.0 K,	$\Delta H = 800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_p calculated from equation. $C_p(\text{cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}) = 0.2092 +$		c,I/liq 228.7 K,	$\Delta H = 6670 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 29.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$7.29 \times 10^{-4}T$, where $T < 60^\circ\text{C}$ for L-38 PVC.			
$C_p(\text{cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}) = 0.2048 + 8.46 \times 10^{-4}T$,		Molecular Weight 41.0524	
where $T < 60^\circ\text{C}$ for annealed PVC.		Wiswesser Line Notation NC1	
Molecular Weight 62.4984		Evaluation C	
Wiswesser Line Notation /*YG1*/			
Evaluation A			
$T(\text{glass}) = 78.5^\circ\text{C}$.			

<p>(C₂H₃NO)_n (c) 80FIN/KUM Polyglycine I Heat Capacity 298.15 K, $C_p = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 150 to 375 K. $C_p = 37.744 + 0.218T - 2.333 \times 10^{-6}T^2$. Molecular Weight 57.0518 Wiswesser Line Notation /*MV1*/ Evaluation B Same data as in 81FIN/KUM. β-sheet structure.</p>	<p>C₂H₄ (liq) 37EGA/KEM Ethylene Heat Capacity 170 K, $C_p = 67.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 15 to 170 K. Phase Changes c/liq 103.95 K, $\Delta H = 3351 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 32.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ liq/g 169.40 K, $\Delta H = 13544 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 79.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 28.0536 Wiswesser Line Notation 1U1 Evaluation B</p>
<p>(C₂H₃NO)_n (c) 80FIN/KUM Polyglycine II Heat Capacity 298.15 K, $C_p = 93.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 150 to 375 K. $C_p = 57.598 + 0.05T + 2.357 \times 10^{-4}T^2$. Molecular Weight 57.0518 Wiswesser Line Notation /*MV1*/ Evaluation B Same data as in 81FIN/KUM. β_1 helical structure.</p>	<p>C₂H₄ (liq) 83CHA/HAL Ethylene Heat Capacity 170 K, $C_p = 67.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 16 to 169 K. Entropy 170 K, $S = 117.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 103.97 K, $\Delta H = 3351 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 32.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 28.0536 Wiswesser Line Notation 1U1 Evaluation A A reevaluation of the original measured data from: 37EGA/KEM.</p>
<p>C₂H₃N₃ (c) 89JIM/ROU 1,2,4-Triazole Heat Capacity 298.15 K, $C_p = 78.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 69.0658 Wiswesser Line Notation T5MN DNJ Evaluation A</p>	<p>C₂H₃NaO₂ (c) 83FRA/PLA Sodium ethanoate; Sodium acetate Heat Capacity 298.15 K, $C_p = 100.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 7 to 350 K. Entropy 298.15 K, $S = 138.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 21 K, $\Delta S = 12.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Questionable second-order transition. Molecular Weight 82.0343 Wiswesser Line Notation OV1 .NA Evaluation A</p>
<p>C₂H₃NaO₂·3H₂O (c) 84MEI/GRO Sodium acetate trihydrate Heat Capacity 298.15 K, $C_p = 229.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 270 to 400 K. Phase Changes c/aq 331.52 K, $\Delta H = 37860 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 114.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Transition of trihydrate to anhydrous salt and aqueous solution. Molecular Weight 136.0799 Wiswesser Line Notation OV1 .NA &QH 3 Evaluation B</p>	<p>C₂H₄Br₂ (liq) 65FIN/GRU 1,2-Dibromoethane; Ethylene dibromide Heat Capacity 300 K, $C_p = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 187.8616 Wiswesser Line Notation E2E Evaluation B</p>
<p>C₂H₃O₂Tl (c) 76MEI/SEY Thallium acetate Phase Changes c,I/liq 404 K, $\Delta H = 17573 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-mesophase. Molecular Weight 263.4145 Wiswesser Line Notation OV1 .TL Evaluation B</p>	<p>C₂H₄Cl₂ (liq) 85LAI/ROU 1,2-Dichloroethane; Ethylene dichloride Heat Capacity 298.15 K, $C_p = 128.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 98.9596 Wiswesser Line Notation G2G Evaluation B</p>
<p>C₂H₃O₂Tl (c) 76MEI/SEY Thallium acetate Phase Changes c,I/liq 404 K, $\Delta H = 17573 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-mesophase. Molecular Weight 263.4145 Wiswesser Line Notation OV1 .TL Evaluation B</p>	<p>C₂H₄F₂ (liq) 82POR/PON Freon 152A; 1,1-Difluoroethane; Ethylidene difluoride Heat Capacity 298.17 K, $C_p = 118.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 220 to 425 K. Unsmoothed experimental datum. C_p data given as $1.793 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 66.0504 Wiswesser Line Notation FYF1 Evaluation C</p>

C₂H₄N₂O₂ (c)	83LEB/KAT		
Diformylhydrazine			
Heat Capacity 298.15 K,	$C_p = 99.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂H₄O₂ (liq)	1895PIC
Temperature range 298 to 350 K.		Acetic acid; Ethanoic acid	
$C_p = 0.908 \times 10^{-4} T^3 - 0.0923 T^2 + 31.3779 T - 3457.8187$		Heat Capacity 287-335 K,	$C_p = 137 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 to 350 K).		Temperature range 260 to 335 K.	
Molecular Weight 88.0658		Phase Changes	
Wiswesser Line Notation VHMMVH		c/liq	290.06 K, $\Delta H = 11126 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 38.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 60.0524	
		Wiswesser Line Notation QV1	
		Evaluation D	
C₂H₄O (liq)	88LEB/VAS		
Ethanal		C₂H₄O₂ (liq)	1881BER/OGI
Heat Capacity 298.15 K,	$C_p = 89.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Methyl formate; Methyl methanoate	
Temperature range 13 to 300 K.		Heat Capacity 298 K,	$C_p = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 117.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 286 to 302 K.	
Phase Changes		C_p given as $0.516 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	
c/liq	149.78 K, $\Delta H = 2310 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 60.0524	
	$\Delta S = 15.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation VHO1	
liq/liq	242.9 K, $\Delta H = 1716 \text{ J}\cdot\text{mol}^{-1}$	Evaluation D	
	$\Delta S = 7.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Lambda type transition.			
Molecular Weight 44.0530		C₂H₄O₂ (liq)	87ZAB/HYN
Wiswesser Line Notation VH1		Methyl formate; Methyl methanoate	
Evaluation A		Heat Capacity 298.75 K,	$C_p = 120.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 293 to 299 K.	
		Unsmoothed experimental datum.	
		Molecular Weight 60.0524	
		Wiswesser Line Notation VHO1	
		Evaluation B	
(C₂H₄O)_n (c)	57SOC/TRA	C₂H₅NO (liq)	76SKO/SUU
Polyvinyl alcohol		N-Methylformamide; N-Methylmethanamide	
Heat Capacity 245 K,	$C_p = 45.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 123.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 58 to 245 K;		One temperature.	
C_p value is unsmoothed experimental datum.		Molecular Weight 59.0676	
Molecular Weight 44.0530		Wiswesser Line Notation VHM1	
Wiswesser Line Notation /*QY1*/		Evaluation A	
Evaluation B			
See also 62WAR/BRO			
(C₂H₄O)_n (liq)	82ZAR	C₂H₅NO (c)	76SKO/SUU
Polyethylene glycol		Acetamide; Ethanamide	
Heat Capacity 298 K,	$C_p = 1314 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 90.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298, 323, 363 K		One temperature.	
Molecular Weight 600		Molecular Weight 59.0676	
Wiswesser Line Notation /*O2*/		Wiswesser Line Notation ZV1	
Evaluation B		Evaluation A	
(C₂H₄O)_n (liq)	82ZAR	C₂H₅NO (c)	83DEW/DEK
Polyethylene glycol		Acetamide; Ethanamide	
Heat Capacity 323 K,	$C_p = 3346 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 90.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 323, 363 K.		Temperature range 90 to 360 K.	
Molecular Weight 1500		Phase Changes	
Wiswesser Line Notation /*O2*/		c/liq	353.33 K, $\Delta H = 15590 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 44.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 59.0676	
		Wiswesser Line Notation ZV1	
		Evaluation B(C_p), A(Phase changes).	
C₂H₄O·7H₂O (c)	82LEA/MUR		
Ethylene oxide hydrate		C₂H₅NO (c)	84NUR/BER
Heat Capacity		Acetamide; Ethanamide	
Temperature range 120 to 260 K. Data given graphically.		Heat Capacity 298.15 K,	$C_p = 91.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Temperature range 8 to 330 K.	
c/liq	283.2 K, $\Delta H = 48000 \text{ J}\cdot\text{mol}^{-1}$	Entropy 298.15 K,	$S = 115.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 59.0676	
Molecular Weight 170.1594		Wiswesser Line Notation ZV1	
Wiswesser Line Notation T3OTJ &QH 7		Evaluation A	
Evaluation A			
Actual formula: C ₂ H ₄ O·6.89H ₂ O			

<p>C₂H₅NO (c) 86EMO/NAU Acetamide; Ethanamide Heat Capacity 298 K, $C_p = 86.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298 to 400 K. C_p data given at 298 K as $1.467 \text{ kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$ (extrapolated). $C_p = 1.481 + 0.0069(T-300) \text{ kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$ (300 to 330). Phase Changes c/liq 353.5 K, $\Delta H = 15606 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 59.0676 Wiswesser Line Notation ZV1 Evaluation B(C_p), A(Phase changes) Stable form.</p>	<p>C₂H₆ (liq) 76ATA/CHI Ethane Heat Capacity 100 K, $C_p = 68.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 50 to 100 K. Data given graphically. $C_p = 0.69933 (T/K) - 2.385 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (50 to 70 K, for solid). Phase Changes c,II/c,I 89.813 K, $\Delta H = 2282 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 25.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/liq 90.341 K, $\Delta H = 583 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Triple point. Molecular Weight 30.0694 Wiswesser Line Notation 2H Evaluation A</p>
<p>C₂H₅NO (c) 86EMO/NAU Acetamide; Ethanamide Phase Changes c/liq 342.15 K, $\Delta H = 12522$ to $12877 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.6$ to $37.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 59.0676 Wiswesser Line Notation ZV1 Evaluation A Unstable form.</p>	<p>C₂H₅Cl₂Si (liq) 71SAM/KOS2 Dichlorodimethylsilane Heat Capacity 298.15 K, $C_p = 171.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 21 to 299 K. Data deposited VINITI, No 2423-71, 17 December, 1970. $C_p(\text{liq}) = 18.5676 + 0.06453T + 283310T^{-2}$ (198.99 to 300 K) $\text{cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Entropy 298.15 K, $S = 270.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 198.99 K, $\Delta H = 8828 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 129.0609 Wiswesser Line Notation G-SI-G1&1 Evaluation A $T_{\text{Debye}} = 100.37 \text{ K}$.</p>
<p>C₂H₅NO₂ (c) 76BER/BOU Methyl carbamate Phase Changes c/liq 328.6 K, $\Delta H = 16700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 51.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 75.0672 Wiswesser Line Notation ZVO1 Evaluation A</p>	<p>C₂H₆Cl₄D₆MnN₂ (c) 75BOC/ARR Tetrachlorobis-(deuteromethylammonium) manganese II Phase Changes c,II/c,I 258 K, $\Delta H = 2.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.007 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 389 K, $\Delta H = 14.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.036 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 266.9278 Wiswesser Line Notation ZH&1 2 .MN G4 &1/H-2 3 Evaluation A</p>
<p>C₂H₅NO₄·0.5H₂O (c) 89FUK/MAT Ammonium hydrogen oxalate hemihydrate Heat Capacity 298.15 K $C_p = 166.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 13 to 300 K Entropy 298.15 K $S = 189.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 145.4 K $\Delta H = 0.37 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Order — disorder transition Molecular Weight 116.0734 Wiswesser Line Notation ZH QVVQ &QH 0.5 Evaluation A</p>	<p>C₂H₆N₂O (c) 87DEL/FER Methylurea; Monomethylurea Phase Changes c/liq 373.8 K, $\Delta H = 15750 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 74.0822 Wiswesser Line Notation ZVM1 Evaluation A</p>
<p>C₂D₅NO₄·0.5D₂O (c) 89FUK/MAT Ammonium hydrogen oxalate hemihydrate-<i>d</i>6 Heat Capacity 298.15 K $C_p = 179.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 13 to 300 K Entropy 298.15 K $S = 204.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 160.1 K $\Delta H = 0.56 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Order-disorder transition Molecular Weight 122.1208 Wiswesser Line Notation ZH QVVQ &QH 0.5 &1/H-2 2 &2/4/7/10/11/H-2 Evaluation A</p>	<p>C₂H₆N₂O₄ (c) 86MAT/SUG Hydrazinium hydrogen oxalate Heat Capacity 299.47 K, $C_p = 157.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 14 to 300 K. Value is unsmoothed experimental datum. Phase Changes c,II/c,I 217.6 K, $\Delta H = 1090 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 122.0804 Wiswesser Line Notation QVVQ &ZZ Evaluation A</p>
<p>C₂H₅NS (c) 82SAB/TOR Thioacetamide Heat Capacity 298 K, $C_p = 100.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $1.335 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Phase Changes c/g 298.15 K, $\Delta H = 82800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 277.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 75.1282 Wiswesser Line Notation ZY1&US Evaluation B</p>	

C₂H₆O (liq)	40MAZ	(C₂H₆Osi)_n (liq)	78LEB/MUK
Ethanol; Ethyl alcohol		Poly(dimethylsiloxane)	
Heat Capacity 297.8 K,	$C_p = 114.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 117.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 174 to 298 K.		Temperature range 8 to 332 K.	
Unsmoothed experimental datum.		Entropy 298.15 K,	$S = 154.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_p(\text{liq}) = 0.5437 + 0.001858t + 0.0000098t^2 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.		Phase Changes	
$C_p(298.15 \text{ K}) = 114.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$, calculated from equation.		c/liq 246 K,	$\Delta H = 4540 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 46.0688			$\Delta S = 18.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation Q2		Degree of crystallinity is 67%.	
Evaluation B		Molecular Weight 74.1543	
		Wiswesser Line Notation /*-SI-O*1&1/	
		Evaluation A	
C₂H₆O (liq)	44YOS	C₂H₆O₂ (liq)	01FOR
Ethanol; Ethyl alcohol		Ethylene glycol; 1,2-Dihydroxyethane;	
Phase Changes		1,2-Ethanediol	
c/liq 159 K,	$\Delta H = 4973 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity	$C_p = 152 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 31.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 286 to 332.7 K.	
		Value given over temperature range.	
Molecular Weight 46.0688		Molecular Weight 62.0682	
Wiswesser Line Notation Q2		Wiswesser Line Notation Q2Q	
Evaluation B		Evaluation D	
C₂H₆O (liq)	76FOR/BEN2	C₂H₆O₂ (liq)	82ZAR
Ethanol; Ethyl alcohol		Ethylene glycol; 1,2-Dihydroxyethane;	
Heat Capacity 298.15 K,	$C_p = 112.094 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	1,2-Ethanediol	
One temperature.		Heat Capacity 298 K,	$C_p = 149.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 46.0688		Temperature range 298, 323, 363 K.	
Wiswesser Line Notation Q2		Molecular Weight 62.0682	
Evaluation A		Wiswesser Line Notation Q2Q	
Data from 76FOR/BEN.		Evaluation B	
C₂H₆O (liq)	77VES/SVO	C₂H₆Zn (liq)	84SHE/NIS
Ethanol; Ethyl alcohol		Dimethyl zinc	
Heat Capacity 298.15 K,	$C_p = 112.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 129.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 318 K.		Temperature range 5 to 300 K.	
Molecular Weight 46.0688		Entropy 298.15 K,	$S = 201.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation Q2		Phase Changes	
Evaluation B		c,II/c,I 210.26 K,	$\Delta H = 1061 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 5.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq 230.13 K,	$\Delta H = 6830 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 29.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 95.4494	
		Wiswesser Line Notation 1-ZN-1	
		Evaluation A	
C₂H₆O (liq)	84STE/OLS	C₂H₈N₂ (liq)	51AST/JAN
Ethanol; Ethyl alcohol		N,N'-Dimethylhydrazine	
Heat Capacity 298.15 K,	$C_p = 115.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 171.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 266 to 318 K. C_p given as $0.6011 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.		Temperature range 15 to 298 K.	
Molecular Weight 46.0688		Entropy 298.15 K,	$S = 199.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation Q2		Phase Changes	
Evaluation B		c/liq 264.28 K,	$\Delta H = 13638 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 51.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 60.0986	
		Wiswesser Line Notation 1MM1	
		Evaluation A	
C₂H₆O (liq)	84ZEG/SOM	C₂H₈N₂ (liq)	88BOB/KAM
Ethanol; Ethyl alcohol		1,2-Diaminoethane; Ethylenediamine	
Heat Capacity 298.15 K,	$C_p = 112.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 313 K,	$C_p = 170 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature		Temperature range 313 to 413 K.	
Molecular Weight 46.0688		Molecular Weight 60.0986	
Wiswesser Line Notation Q2		Wiswesser Line Notation Z2Z	
Evaluation A		Evaluation D	
C₂H₆O (liq)	86TAN/TOY		
Ethanol; Ethyl alcohol			
Heat Capacity 298.15 K,	$C_p = 112.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
One temperature.			
Molecular Weight 46.0688			
Wiswesser Line Notation Q2			
Evaluation A			

C₂H₁₂B₁₀ (liq) <i>m</i> -Carborane; 1,7-Carborane-12	81GOR/ZAL	C₂H₁₂I₆N₂Te (c) Bis(methylammonium) hexaiodotellurate	86ONO/MAT
Heat Capacity 298.15 K, Temperature range 10 to 330 K.	$C_p = 229.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature Range 12 to 300 K	$C_p = 307.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 211.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 639.71 \text{ mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,III/c,II 58.0 K,	$\Delta H = 41 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,III/c,II 66.1 K,	$\Delta H = 403 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta S = 6.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 165 K,	$\Delta H = 1903 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 115.6 K,	$\Delta H = 2555 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 22.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 280.1 K,	$\Delta H = 4326 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 718.1547	
Molecular Weight 144.2168		Wiswesser Line Notation ZH&1 2 -TE- I6	
Wiswesser Line Notation		Evaluation A	
Evaluation A			
C₂H₁₂Br₆N₂Te (c) Bis(methylammonium) hexabromotellurate (IV)	86ONO/MAT	C₃H₂N₂ (c) Malononitrile	87WAS/OLE
Heat Capacity 298.15 K, Temperature range 13 to 320 K.	$C_p = 314.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity Temperature range 150 to 320 K. Data given graphically.	
Entropy 298.15 K,	$S = 592.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c,IV/c,II 140 K	
c,IV/c,III 129.0 K,	$\Delta H = 1677 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 13.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Re-entrant phase transition; second order.	
c,III/c,II 163.9 K,	$\Delta H = 885 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta S = 5.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,III/c,II	
c,II/c,I 288.9 K,	$\Delta H = 4594 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	First order transition; slow.	
Molecular Weight 671.1542		c,I/c,I' 303 K	
Wiswesser Line Notation ZH&1 2 -TE- E6		First order transition.	
Evaluation A		c,III/c,II 260 K	
		Phase III is stable below 260 K.	
		c,II/c,I 295 K	
		Second order transition.	
		Molecular Weight 66.0622	
		Wiswesser Line Notation NC1CN	
		Evaluation A	
C₂H₁₂Cl₄MnN₂ (c) Tetrachlorobis-(methylammonium) manganese II	75BOC/ARR	C₃H₃Cl₃ (liq) 1,1,2-Trichloroethane	84GOL/KOL
Phase Changes		Phase Changes	
c,III/c,II 257 K,	$\Delta H = 4.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.017 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 237.9 K,	$\Delta H = 10880 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 393 K,	$\Delta H = 3.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.007 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 145.4157	
Molecular Weight 260.8802		Wiswesser Line Notation GYG1G	
Wiswesser Line Notation ZH&1 2 -MN- G4		Evaluation A	
Evaluation A			
C₂H₁₂Cl₆Te (c) Methylammonium hexachlorotellurate	88ONO/MAT	C₃H₃N₃O₃ (c) Cyanuric acid; Triazine triol	83DEW/DEK
Heat Capacity 298.21 K, Temperature range 13 to 300 K. Unsmoothed experimental datum.	$C_p = 314.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K, Temperature range 90 to 340 K. $C_p = 20.63 + 0.3758 (T/K) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (90 to 340 K).	$C_p = 133.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 129.0750	
c,VI/c,V 73.0 K,	$\Delta H = 470 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation T6N CN ENJ BQ DQ FQ	
c,V/c,IV 136.8 K,	$\Delta H = 1810 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B(C_p), A(Phase changes).	
Lambda type transition.			
c,IV/c,III 155 K,	$\Delta H = 390 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₄Cl₃Si (c) β -Trichlorosilylpropionitrile	75KOS/SAM
c,III/c,II 226.0 K,	$\Delta H = 330 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 13.4 to 322.5 K.	$C_p = 186.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 439 K,	$\Delta H = 4400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Deposited in VINITI, No 586-75, 10 March 1975.	
Molecular Weight 376.4348		Entropy 298.15 K,	$S = 246.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation ZH&1 2 -TE- G4		Phase Changes	
Evaluation B(C_p), A(Phase changes)		c/liq 307.90 K,	$\Delta H = 21242 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 69.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 174.5091	
		Wiswesser Line Notation NC2-SI-GGG	
		Evaluation A	

C₃H₄N₂ (c) Imidazole Heat Capacity 300 K, Temperature range 90 to 370 K. Phase Changes c/liq 362.69 K, Molecular Weight 68.0780 Wiswesser Line Notation T5M CNJ Evaluation B(C _p), A(Phase changes).	83DEW/DEK $C_p = 89.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12821 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 35.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₄O₂ (liq) Acrylic acid Heat Capacity 300 K, Temperature range 290 to 344 K. C_p given as 2021.8 J·kg ⁻¹ ·K ⁻¹ . Molecular Weight 72.0634 Wiswesser Line Notation QV1U1 Evaluation B	83KAR/ABD2 $C_p = 145.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₄N₂ (c) Imidazole Heat Capacity 310 K, Temperature range 300 to 450 K. Phase Changes c/liq 361.9 K, Molecular Weight 68.0780 Wiswesser Line Notation T5M CNJ Evaluation B	83DEW/OFF $C_p = 94.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 35.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₄O₂ (liq) Acrylic acid Phase Changes c/liq 285.7 K, Molecular Weight 72.0634 Wiswesser Line Notation QV1U1 Evaluation A	85KAR/ABD2 $\Delta H = 9509.7 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₄N₂ (c) Imidazole Heat Capacity 298.15 K, One temperature. C_p given as 1.21 J·K ⁻¹ ·g ⁻¹ . Molecular Weight 68.0780 Wiswesser Line Notation T5M CNJ Evaluation B	87JIM/ROU $C_p = 82.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₄O₂ (liq) β -Propiolactone Heat Capacity 298.15 K, Temperature range 13.8 to 340 K. Entropy 298.15 K, Phase Changes c/liq 239.86 K, Molecular Weight 72.0634 Wiswesser Line Notation T4OV7J Evaluation A	83LEB/YEV $S = 175.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9410 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₄N₂ (c) Pyrazole Heat Capacity 300 K, Temperature range 300 to 450 K. Phase Changes c/liq 333.1 K, Molecular Weight 68.0780 Wiswesser Line Notation T5MNJ Evaluation B	83DEW/OFF $C_p = 87.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 13800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₅KO₂ (c) Potassium propionate Heat Capacity 298.15 K, Temperature range 10 to 340 K. Entropy 298.15 K, Phase Changes c,III/c,II 255 K, c,II/c,I 352.5 K c,I/liq 638.3 K Molecular Weight 112.1696 Wiswesser Line Notation OV2 .KA Evaluation A	84FRA/WES $C_p = 129.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 142.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 515 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₄N₂ (c) Pyrazole Heat Capacity 298.15 K, One temperature. C_p given as 1.19 J·K ⁻¹ ·g ⁻¹ . Molecular Weight 68.0780 Wiswesser Line Notation T5MNJ Evaluation B	87JIM/ROU $C_p = 81.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₅LiO₂ (c) Lithium propionate Heat Capacity 298.15 K, Temperature range 10 to 600 K. Entropy 298.15 K, Phase Changes c,II/c,I 514 K c,I/liq 606.8 K Molecular Weight 80.0123 Wiswesser Line Notation OV2 .LI Evaluation A	84FRA/WES $C_p = 143.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 175.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₄N₂O (c) Cyanacetamide Heat Capacity 300 K, Temperature range 300 to 450 K. Phase Changes c,II/c,I 346.5 K, c,I/liq 387.3 K, Molecular Weight 84.0774 Wiswesser Line Notation ZV1CN Evaluation B	83DEW/OFF $C_p = 111.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 21700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₅NO₄ (liq) Methyl ester of nitroacetic acid; Methyl nitroacetate Heat Capacity Temperature range 298 to 343 K. Data given over temperature range. Molecular Weight 119.0768 Wiswesser Line Notation WN1VO1 Evaluation B	81LEB/RVA $C_p = 205.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₃H₅NaO₂ (c)	83FRA/WES	C₃H₆ (liq)	83CHA/HAL
Sodium propanoate		Propylene; Propene	
Heat Capacity 298.15 K,	$C_p = 134.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 102 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 9 to 580 K.		Temperature range 14 to 340 K.	
Entropy 298.15 K,	$S = 152.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 195.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,III/c,II 467.00 K,	$\Delta H = 3209 \text{ J}\cdot\text{mol}^{-1}$	c/liq 87.85 K,	$\Delta H = 3003 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 6.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 34.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 491.00 K,	$\Delta H = 4357 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 8.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 42.0804	
c,I/liq 561.91 K,	$\Delta H = 13280.0 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 2U1	
	$\Delta S = 23.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Molecular Weight 96.0611		A reevaluation of the original measured data from: 31HUF/PAR, 39POW/GIA, 50AUE/SAG.	
Wiswesser Line Notation OV2 .NA			
Evaluation A			
C₃H₅O₂Tl (c)	76MEI/SEY	(C₃H₆)_n (c)	84GRE/LAU
Thallium propionate		Polypropylene, isotactic, crystalline	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 68.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 365 K,	$\Delta H = 377 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 0 to 500 K.	
	$\Delta S = 1.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 69.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 468 K,	$\Delta H = 9205 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 42.0804	
	$\Delta S = 20.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation /*Y1&1*/	
Solid-mesophase.		Evaluation A	
Molecular Weight 277.4413		Glassy transitions range from 260 to 380 K for 51% crystallinity. T(glass) at 260, 272, and 325 K.	
Wiswesser Line Notation OV2 .TL			
Evaluation B		(C₃H₆)_n (gls)	84GRE/LAU
C₃H₅O₂Tl (c)	84FER/LOP	Polypropylene, isotactic, amorphous	
Thallium propionate		Heat Capacity 298.15 K,	$C_p = 88.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 320 K,	$C_p = 158 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 0 to 500 K.	
Temperature range 320 to 480 K.		Entropy 298.15 K,	$S = 80.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 42.0804	
c,II/c,I 364.8 K,	$\Delta H = 316 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation /*Y1&1*/	
	$\Delta S = 0.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
c,I/liq 468.0 K,	$\Delta H = 10476 \text{ J}\cdot\text{mol}^{-1}$	Conformationally disordered crystal to monoclinic crystal at 380 K, $\Delta H = 600 \text{ J}\cdot\text{mol}^{-1}$ (38% crystallinity).	
	$\Delta S = 22.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 277.4413		C₃H₆Cl₂Si (liq)	71GEI/DZH
Wiswesser Line Notation OV2 .TL		Dichloromethylvinylsilane	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 177.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₆ (liq)	39POW/GIA	Temperature range 12 to 300 K.	
Propylene; Propene		Deposited in VINITI, No 2722-71, 25 March 1971.	
Heat Capacity 230 K,	$C_p = 92.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 381.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 225 K.		Molecular Weight 141.0719	
Phase Changes		Wiswesser Line Notation G-SI-G1&1U1	
c/liq 87.85 K,	$\Delta H = 3002 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 34.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃H₆N₂O₄ (c)	78GOD/RAC
liq/g 225.35 K,	$\Delta H = 18418 \text{ J}\cdot\text{mol}^{-1}$	2,2-Dinitropropane	
	$\Delta S = 81.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 205 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 42.0804		Temperature range 100 to 347 K.	
Wiswesser Line Notation 2U1		C_p estimated from graph.	
Evaluation B		Phase Changes	
C₃H₆ (liq)	50AUE/SAG	c,III/c,II 259.67 K,	$\Delta H = 1870 \text{ J}\cdot\text{mol}^{-1}$
Propylene, Propene			$\Delta S = 7.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 300 K,	$C_p = 98.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 267.7 K,	$\Delta H = 11276 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 300 to 344 K.			$\Delta S = 42.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Datum at 80 °C is C_p at the bubble point, $0.5615 \text{ Btu}(\text{lb})^{-1}(\text{°R})^{-1}$.		c,I/liq 324.5 K,	$\Delta H = 2636 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 42.0804			$\Delta S = 8.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 2U1		Molecular Weight 134.0914	
Evaluation A		Wiswesser Line Notation WNX1&1&NW	
		Evaluation D(C_p), B(Phase changes)	

C₃H₆O (liq) Propylene oxide; 2-Methyloxirane Heat Capacity 300 K, Temperature range 170 to 325 K. Molecular Weight 58.0798 Wiswesser Line Notation T3OTJ B1 Evaluation B	82TAN/ZHO $C_p = 122.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(C₃H₆O₂)_n (c) Poly-1,3-dioxolan Heat Capacity 298.15 K, Temperature range 80 to 390 K. Extrapolated data. Entropy 298.15 K, Phase Changes c,II/c,I 209 K Glass transition. c,I/liq 325 K, Molecular Weight 74.0792 Wiswesser Line Notation /*1O1O1*/ Evaluation B	69CLE/MEL $C_p = 113.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 112.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16698 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₆O·17H₂O (c) Propylene oxide clathrate hydrate Heat Capacity 260 K, Temperature range 95 to 260 K. Phase Changes c/liq 268.6 K, Molecular Weight 364.3382 Wiswesser Line Notation T3OTJ B1 &QH 17 Evaluation A	85HAN $C_p = 718 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 92700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 345.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O (liq) Propanal; Propaldehyde Heat Capacity 298.15 K, Temperature range 15 to 335 K. Entropy 298.15 K, Phase Changes c/liq 171.32 K, Molecular Weight 58.0798 Wiswesser Line Notation VH2 Evaluation A	84VAS/PET $C_p = 159.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 212.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 8590 \text{ J}\cdot\text{mol}^{-1}$		
C₃H₆O₂ (liq) 1,3-Dioxolan Heat Capacity Temperature range 80 to 390 K. Entropy 298.15 K, Phase Changes c,II/c,I 142.4 K, c,I/liq 175.93 K, Molecular Weight 74.0792 Wiswesser Line Notation T5O COTJ Evaluation B	69CLE/MEL $S = 280.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2677 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 18.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 6567 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 37.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O₂·17H₂O (liq) 1,3-Dioxolane clathrate hydrate Heat Capacity 260 K, Temperature range 95 to 260 K. Phase Changes c/liq 270.5 K, Molecular Weight 380.3376 Wiswesser Line Notation T5O COTJ &QH 17 Evaluation A	85HAN $C_p = 731 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 99100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 366.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O₂ (liq) Propionic acid; Propanoic acid Heat Capacity 298.15 K, Temperature range 270 to 370 K. Equation only. $C_p = 129.7 - 0.1263 T + 0.0007486 T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 74.0792 Wiswesser Line Notation QV2 Evaluation C	82BIR/SIK $C_p = 158.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O₃ (liq) 2-Hydroxypropanoic acid (DL); Lactic acid (DL) Phase Changes c/liq 290 K, Molecular Weight 90.0786 Wiswesser Line Notation QY1&VQ -DL Evaluation B	44YOS $\Delta H = 11344 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O₃ (c) 1,3,5-Trioxane Heat Capacity 298.15 K, Temperature range 80 to 310 K. Entropy 298.15 K, Molecular Weight 90.0786 Wiswesser Line Notation T6O CO EOTJ Evaluation B	68CLE/MEL $C_p = 111.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 133.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₆O₃ (liq) Methylene glycol acetate Heat Capacity 298.15 K Temperature range 273.15 to 323.15 K. $C_p^\circ (\text{kJ kg}^{-1}\text{K}^{-1}) = 0.033053T - 7.401$ Molecular Weight 87.0549 Wiswesser Line Notation Q1OV1 Evaluation D	83SAN/CIO $C_p = 214 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₇NO (liq) N,N-Dimethylformamide; N,N-Dimethylmethanamide; DMF Heat Capacity 298.15 K, Temperature range 297.15 to 299.15 K. C_p given as $2.059 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 73.0944 Wiswesser Line Notation VHN1&1 Evaluation B	82VOR/YAK $C_p = 150.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₇NO (liq) N,N-Dimethylformamide; N,N-Dimethylmethanamide; DMF Heat Capacity 298.15 K, One temperature. Molecular Weight 61.0834 Wiswesser Line Notation VHN1&1 Evaluation B	84ZEG/SOM $C_p = 148.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₃H₇NO₂ (c) 3-Aminopropanoic acid Heat Capacity 298 K, One temperature. Molecular Weight 89.0938 Wiswesser Line Notation Z2VQ Evaluation B	83SKO/SAB $C_p = 116.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₃H₇NO₂ (c) Ethyl carbamate; Urethane Phase Changes c/liq 321.7 K, $\Delta H = 20900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 75.0871 Wiswesser Line Notation ZVO2 Evaluation A	76BER/BOU	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation A Data from 76FOR/BEN.	76FOR/BEN2 $C_p = 144.062 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₇NO₂ (c) Ethyl carbamate; Urethane Heat Capacity 300 K, Temperature range 90 to 330 K. Phase Changes c/liq 321.41 K, $\Delta H = 16794 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 52.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 89.0938 Wiswesser Line Notation ZVO2 Evaluation B(C_p), A(Phase changes).	83DEW/DEK	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation B	77VES/SVO $C_p = 143.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₇NO₃ (liq) Isopropyl nitrate Heat Capacity 298.15 K, Temperature range 14 to 300 K. Entropy 298.15 K, Phase Changes c/liq 190.81 K, $\Delta H = 10010 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 52.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 105.0932 Wiswesser Line Notation WNOY1&1 Evaluation A	88LUS/RUB	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.216 K, Temperature range 185 to 300 K. Unsmoothed experimental datum. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation B	80KAL/JED $C_p = 146.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₈ (liq) Propane Heat Capacity 230 K, Temperature range 90 to 230 K. C_p given as $2.2305 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 44.0962 Wiswesser Line Notation 3H Evaluation A Sample purity, 99.95 mol%.	82VAS	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation B	82VIL/CAS $C_p = 146.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₈N₂O (c) 1,3-Dimethylurea Phase Changes c/liq 379.5 K, $\Delta H = 13620 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 35.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 88.1090 Wiswesser Line Notation 1MVM1 Evaluation A	87DEL/FER	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation B	84ZEG/SOM $C_p = 144.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₈N₂O (c) 1,1-Dimethylurea Phase Changes c/liq 454.0 K, $\Delta H = 29610 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 88.1090 Wiswesser Line Notation ZVN1&1 Evaluation A	87DEL/FER	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation B	86KOR/KUK $C_p = 144.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃H₈N₂O (c) Ethylurea; Monoethylurea Phase Changes c/liq 367.8 K, $\Delta H = 13940 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 37.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 88.1090 Wiswesser Line Notation ZVM2 Evaluation A	87DEL/FER	C₃H₈O (liq) 1-Propanol; <i>n</i> -Propyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 60.0956 Wiswesser Line Notation Q3 Evaluation A	86TAN/TOY $C_p = 143.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₃H₈O₂ (liq) Propylene glycol; 1,2-Propanediol; 1,2-Dihydroxypropane Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 76.0950 Wiswesser Line Notation QY1&1Q Evaluation B	82ZAR $C_p = 189.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₃H₈O₃ (liq) 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol; Glycerol Heat Capacity 298 K, One temperature. C_p given as 0.576 cal·g ⁻¹ ·K ⁻¹ . Molecular Weight 92.0944 Wiswesser Line Notation Q1YQ1Q Evaluation D	03MAG	C₃H₉ClSi (liq) Chlorotrimethylsilane Heat Capacity 298.15 K, Temperature range 12.38 to 303.05 K. C_p (liq) = 18.19046 + 0.077664 <i>T</i> + 309052 <i>T</i> ⁻² cal·mol ⁻¹ ·K ⁻¹ . Value is calculated from equation. Deposited in VINITI, No 2501-71, 18 January 1971. Entropy 298.15 K, Phase Changes c,II/c,I 185.1 K, c,I/liq 217.97 K, Molecular Weight 108.6426 Wiswesser Line Notation G-SI-1&1&1 Evaluation B T_{Debye} = 115.8 K.	71SAM/KOS C_p = 187.5 J·mol ⁻¹ ·K ⁻¹ S = 275.1 J·mol ⁻¹ ·K ⁻¹ ΔH = 695 J·mol ⁻¹ ΔS = 3.75 J·mol ⁻¹ ·K ⁻¹ ΔH = 9682 J·mol ⁻¹ ΔS = 44.39 J·mol ⁻¹ ·K ⁻¹
C₃H₈O₃ (liq) 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol; Glycerol Phase Changes c/liq 292 K, Molecular Weight 92.0944 Wiswesser Line Notation Q1YQ1Q Evaluation B	44YOS	C₃H₉Ga (liq) Trimethylgallium Heat Capacity 298.15 K, Temperature range 0 to 330 K. Entropy 298.15 K, Phase Changes c,II/c,I 244.5 K, c,I/liq 257.81 K, Molecular Weight 114.8241 Wiswesser Line Notation 1-GA-1&1 Evaluation A	88LEB/SMI C_p = 188.0 J·mol ⁻¹ ·K ⁻¹ S = 252.1 J·mol ⁻¹ ·K ⁻¹ ΔH = 333 J·mol ⁻¹ ΔS = 1.36 J·mol ⁻¹ ·K ⁻¹ ΔH = 10602 J·mol ⁻¹ ΔS = 41.1 J·mol ⁻¹ ·K ⁻¹
C₃H₈O₃ (liq) 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol; Glycerol Heat Capacity 313.15 K, Temperature range 20 to 60 K. C_p given as 2.49 kJ·kg ⁻¹ ·C ⁻¹ at 40 °C. C_p at 25 °C estimated from graph to be ca. 2.43 kJ·kg ⁻¹ ·C ⁻¹ or 223 J·mol ⁻¹ ·K ⁻¹ . Molecular Weight 92.0944 Wiswesser Line Notation Q1YQ1Q Evaluation B	82CHE/GE	C₃H₁₂CdCl₄N₂ (c) Propyldiammonium cadmium tetrachloride Heat Capacity 298.15 K, Temperature range 10 to 320 K. Entropy 298.15 K, Molecular Weight 330.3632 Wiswesser Line Notation Z3Z &GH 2 .CD G2 Evaluation A Magnetic transition around 50 K.	88ABE/CHH C_p = 188.0 J·mol ⁻¹ ·K ⁻¹ S = 252.1 J·mol ⁻¹ ·K ⁻¹ ΔH = 333 J·mol ⁻¹ ΔS = 1.36 J·mol ⁻¹ ·K ⁻¹ ΔH = 10602 J·mol ⁻¹ ΔS = 41.1 J·mol ⁻¹ ·K ⁻¹
C₃H₈O₃ (liq) 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol; Glycerol Heat Capacity 298.15 K, One temperature. Molecular Weight 92.0944 Wiswesser Line Notation Q1YQ1Q Evaluation A	88BAS/NIL	C₃H₁₂Cl₄MnN₂ (c) Propyldiammonium manganese tetrachloride Heat Capacity 298.15 K, Temperature range 10 to 310 K. Entropy 298.15 K, Phase Changes c,III/c,II 307.6 K, c,II/c,I 336 K, From DSC study. Molecular Weight 272.8912 Wiswesser Line Notation Z3Z &GH 2 .MN G2 Evaluation A A magnetic transition is observed in the temperature range 45 to 65 K.	88ABE/CHH C_p = 275.54 J·mol ⁻¹ ·K ⁻¹ S = 351.94 J·mol ⁻¹ ·K ⁻¹ ΔH = 710 J·mol ⁻¹ ΔS = 2.4 J·mol ⁻¹ ·K ⁻¹ ΔH = 640 J·mol ⁻¹ ΔS = 1.90 J·mol ⁻¹ ·K ⁻¹
C₃H₉Al Trimethylaluminum Heat Capacity 298.15 K, Temperature Range 10 to 380 K Entropy 298.15 K, c/liq 288.43 K, Molecular Weight 72.0856 Wiswesser Line Notation 1-AL-1&1 Evaluation A	61MCC	C₃H₉As (liq) Trimethyl arsine Heat Capacity 298.15 K, Temperature range 13 to 310 K. Entropy 298.15 K, Phase Changes c/liq 186.60 K, Molecular Weight 120.0257 Wiswesser Line Notation 1-AS-1&1 Evaluation A	88NIS/SHE C_p = 155.6 J·mol ⁻¹ ·K ⁻¹ S = 209.4 J·mol ⁻¹ ·K ⁻¹ ΔH = 8790.6 J·mol ⁻¹ ΔS = 30.48 J·mol ⁻¹ ·K ⁻¹ C_p = 154.0 J·mol ⁻¹ ·K ⁻¹ S = 251.3 J·mol ⁻¹ ·K ⁻¹ ΔH = 8962 J·mol ⁻¹ ΔS = 48.03 J·mol ⁻¹ ·K ⁻¹

<p>C₄Br₂Cl₂F₆ (liq) 88SVO/VES 1,4-Dibromo-2,3-dichlorohexafluorobutane Heat Capacity 298.16 K, $C_p = 298.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298.15 to 318.15 K. $C_p (\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 215.6 + 0.278 (T/\text{K})(298 \text{ to } 318 \text{ K})$. Molecular Weight 392.7484 Wiswesser Line Notation FXFEXGFXGFXFFE Evaluation A</p>	<p>C₄H₃Cl₃OS (liq) 80SHA/LYU Methyl trichlorothioacrylate Heat Capacity 298.15 K, $C_p = 244.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 15 to 330 K. Entropy 298.15 K, $S = 324.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 286.25 K $\Delta H = 20370 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 71.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 205.4861 Wiswesser Line Notation GYGUYGVSI Evaluation A</p>
<p>C₄F₈ (liq) 82PON Freon C318; Octafluorocyclobutane Heat Capacity 296.41 K, $C_p = 222.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 240 to 340 K. Value is unsmoothed experimental datum: C_p given as $1.112 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 200.0312 Wiswesser Line Notation L4TJ AF AF BF BF CF CF DF DF Evaluation B</p>	<p>C₄H₃Cu (c) 82BYK/LEB Copper vinylacetylenide Heat Capacity 298.15 K, $C_p = 109.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 5 to 330 K. Entropy 298.15 K, $S = 132.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 114.6137 Wiswesser Line Notation -CU-1U12U1 Evaluation A</p>
<p>C₄F₁₀ (liq) 83CAM/DIA n-Perfluorobutane Heat Capacity 293 K, $C_p = 127.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Calculated value from Sargent, J.W. et al, Amer. Soc. Test Mater. Spect. Tech. Bull. 346:51, 1964. Molecular Weight 238.0280 Wiswesser Line Notation FXFFXFFXFFXFFF Evaluation C</p>	<p>C₄H₃F₅O₃ (liq) 84GOL/KOL α-(Trifluoromethoxy)-α,α-difluoromethyl acetate Phase Changes c/liq 167.4 K, $\Delta H = 8510 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 194.0579 Wiswesser Line Notation FXFFOXFFVO1 Evaluation A</p>
<p>C₄H₂O₃ (c) 83DEW/DEK Maleic anhydride Heat Capacity 300 K, $C_p = 119.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 90 to 350 K. Linearly extrapolated. Phase Changes c/liq 325.72 K, $\Delta H = 13550 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 98.0580 Wiswesser Line Notation T5VOVJ Evaluation B(C_p), A(Phase changes).</p>	<p>C₄H₄KNaO₆·4H₂O (c) 38HIC/HOO Sodium potassium tartrate tetrahydrate; Rochelle salt Heat Capacity 300 K, $C_p = 389.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 15 to 340 K. Phase Changes c,II/c,I 328.78 K, $\Delta H = 42752 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 130.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 282.2209 Wiswesser Line Notation OVYQYQVO .K .NA &QH4 Evaluation B</p>
<p>C₄H₂O₃ (c) 83DEW/OFF Maleic anhydride Heat Capacity 310 K, $C_p = 123.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 450 K. Phase Changes c/liq 325.3 K, $\Delta H = 13600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 98.0580 Wiswesser Line Notation T5VOVJ Evaluation B</p>	<p>C₄H₄N₂ (c) 87RAI/SIN Succinonitrile; 1,4-Butanedinitrile Phase Changes c/liq 334 K, $\Delta H = 3704 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 80.0890 Wiswesser Line Notation NC2CN Evaluation B</p>
<p>C₄H₂O₄ (c) 83DEW/OFF Squaric acid Heat Capacity 315 K, $C_p = 121.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 450 K. Phase Changes c,II/c,I 372.2 K, $\Delta H = 300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 114.0574 Wiswesser Line Notation L4VVJ CQ DQ Evaluation B</p>	<p>C₄H₄N₂O₃ (c) 85KOS/ISM Barbituric acid Heat Capacity 298.15 K, $C_p = 141.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 90 to 300 K. Entropy 298.15 K, $S = 157.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Extrapolated below 90 K. Molecular Weight 128.0872 Wiswesser Line Notation T6VMVMV FHJ Evaluation B(C_p), C(S)</p>

C₄H₄O₄ (c,II)	77LEB/EVS	C₄H₄O₄ (c)	82LEB/KUL
Glycolide; 1,4-Dioxane-2,5-dione		Ethylene oxalate	
Heat Capacity 298.15 K, Temperature range 13.8 to 550 K.	$C_p = 133.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 8 to 330 K.	$C_p = 141.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 157.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 149.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 116.0732	
c,II/c,I 312.1 K,	$\Delta H = 1840 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation T6OV VOTJ	
	$\Delta S = 5.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
c,I/liq 356.2 K,	$\Delta H = 14800 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.0732			
Wiswesser Line Notation T6OV DOVTJ		C₄H₄O₄ (c)	82LEB/KUL2
Evaluation A		Ethylene oxalate	
		Heat Capacity 298.15 K, Temperature range 8 to 330 K.	$C_p = 141.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Entropy 298.15 K,	$S = 158.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
		c/liq 415 K,	$\Delta H = 13400 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 32.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 116.0732	
		Wiswesser Line Notation T6OV VOTJ	
		Evaluation A	
C₄H₄O₄ (c,II)	78EVS/BEL		
Glycolide; 1,4-Dioxane-2,5-dione			
Heat Capacity 298.15 K, Temperature range 8 to 400 K.	$C_p = 133.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Entropy 298.15 K,	$S = 157.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes			
c,II/c,I 312.1 K,	$\Delta H = 1810 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 5.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
c,I/liq 356.2 K,	$\Delta H = 14800 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.0732			
Wiswesser Line Notation T6OV DOVTJ			
Evaluation A			
See also 77EVS/BEL.			
C₄H₄O₄ (c,II)	78LEB/YEV	(C₄H₄O₄)_n (c)	77LEB/EVS
Glycolide; 1,4-Dioxane-2,5-dione		Polyglycolide	
Heat Capacity 298.15 K, Temperature range 13.8 to 550 K.	$C_p = 133.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 13.8 to 550 K.	$C_p = 130.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 157.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 150.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 312.1 K,	$\Delta H = 1810 \text{ J}\cdot\text{mol}^{-1}$	c/liq 501 K,	$\Delta H = 23500 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 5.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 356.2 K,	$\Delta H = 14800 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.0732		Molecular Weight 116.0732	
Wiswesser Line Notation T6OV DOVTJ		Wiswesser Line Notation /*V1OV1O*/	
Evaluation A		Evaluation A	
Data also given for metastable crystalline phase, c,I' at 298.15 K: $C_p = 137.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ and $S_T^\circ = 163.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		$T(\text{glass}) = 318 \text{ K}$.	
C₄H₄O₄ (c,II)	88LEB/KUL	(C₄H₄O₄)_n (gls)	78LEB/YEV
Glycolide; 1,4-Dioxane-2,5-dione		Polyglycolide	
Heat Capacity 298.15 K, Temperature range 13.8 to 400 K.	$C_p = 133.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 13.8 to 550 K.	$C_p = 136.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 157.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 151.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 312.1 K,	$\Delta H = 1840.0 \text{ J}\cdot\text{mol}^{-1}$	c/liq 501 K,	$\Delta H = 23500 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 5.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 356.2 K,	$\Delta H = 14800 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 41.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.0732		Molecular Weight 116.0732	
Wiswesser Line Notation T6OV DOVTJ		Wiswesser Line Notation /*V1OV1O*/	
Evaluation A		Evaluation A	
		$T(\text{glass}) = 318 \text{ K}$.	
		(C₄H₄O₄)_n (gls)	82LEB/KUL2
		Polyethylene oxalate	
		Heat Capacity 298.15 K, Temperature range 8 to 360 K.	$C_p = 129.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Entropy 298.15 K,	$S = 163.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 116.0732	
		Wiswesser Line Notation /*VVO2O*/	
		Evaluation A	

C₄H₄S (c)	82AND/DWO	(C₄H₆)_n (c)	86GRE/AYC
Thiophene		<i>trans</i> -1,4-Polybutadiene	
Heat Capacity		Heat Capacity 298.2 K,	$C_p = 87.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 50 to 200 K.		Temperature range 10 to 500 K	
Data graphically only in the region of the phase transitions.		Entropy 298.2 K,	$S = 91.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,V/c,IV 111.3 K		c,II/c,I 356 K	$\Delta H = 7980 \text{ J}\cdot\text{mol}^{-1}$
c,IV/c,III 136.8 K			$\Delta S = 21.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 170.5 K			Fully ordered/conformationally disordered transition
c,II/c,I 174.5 K		c,I/liq 437 K	
Molecular Weight 84.1356		Molecular Weight 54.0914	
Wiswesser Line Notation T5SJ		Wiswesser Line Notation /*2U2*/ -T	
Evaluation A		Evaluation A	
C₄H₄S (c)	84FIG/SZW	C₄H₆N₂O₂ (c)	82LEB/KUL
Thiophene		2,5-Dioxopiperazine	
Heat Capacity		Heat Capacity 298.15 K,	$C_p = 134.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 300 K. Data given graphically only.		Temperature range 8 to 330 K.	
Phase Changes		Entropy 298.15 K,	$S = 145.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,V'/c,IV' 90.76 K		Molecular Weight 114.1036	
Metastable transition.		Wiswesser Line Notation T6MV DMVTJ	
c,IV'/c,III' 139.2 K		Evaluation A	
Metastable transition.			
c,V/c,IV 112.35 K		C₄H₆O·17H₂O (liq)	85HAN
c,IV/c,III 138.5 K		2,5-Dihydrofuran clathrate hydrate	
c,III/c,II 170.70 K		Heat Capacity 260 K,	$C_p = 726 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 175.03 K		Temperature range 95 to 260 K.	
c,I/liq 235.03 K		Phase Changes	
Molecular Weight 84.1356		c,I/liq 272.0 K,	$\Delta H = 92900 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation T5SJ			$\Delta S = 341.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Molecular Weight 70.0908	
		Wiswesser Line Notation T5O BH EHJ &QH 17	
C₄H₅NO (liq)	79DZH/KAR	Evaluation A	
β -Cyanopropionaldehyde		Actual composition is a mixed hydrate:	
Heat Capacity 300 K,	$C_p = 195.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	0.978 DHF – 0.022 THF – 17 H ₂ O.	
Temperature range 55 to 300 K.			
Phase Changes		C₄H₆O (liq)	88BAG/GUR
c,II/c,I 140 K		2-Butenal; Crotonaldehyde	
c,I/liq 230 K		Heat Capacity 298.35 K,	$C_p = 148.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 83.0896		Temperature range 270 to 340 K.	
Wiswesser Line Notation VH2CN		Unsmoothed experimental datum.	
Evaluation C		Molecular Weight 70.0908	
		Wiswesser Line Notation VH1U2	
C₄H₅NO (liq)	81MUS/GAN	Evaluation B	
α -Cyanopropionaldehyde			
Heat Capacity 300 K,	$C_p = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₆O₂ (liq)	84VAS/PET
Temperature range 220 to 370 K.		Methyl propenoate; Methyl acrylate	
C_p given as $2040 \text{ J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$.		Heat Capacity 300 K,	$C_p = 158.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 83.0896		Temperature range 60 to 300 K.	
Wiswesser Line Notation VH1&CN		Entropy 300 K,	$S = 239.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation C		Phase Changes	
		c/liq 196.21 K	
(C₄H₆)_n (liq)	86GRE/AYC	Molecular Weight 86.0902	
<i>cis</i> -1,4-Polybutadiene		Wiswesser Line Notation 1U1VO1	
Heat Capacity 298.2 K,	$C_p = 105.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 10 to 350 K			
Entropy 298.2 K,	$S = 126.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes			
c,II/c,I 284 K			
Molecular Weight 54.0914			
Wiswesser Line Notation /*2U2*/ -C			
Evaluation A			

C₄H₆O₂ (liq) Methyl propenoate; Methyl acrylate Phase Changes c/liq 197.5 K, $\Delta H = 9729 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 49.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 86.0902 Wiswesser Line Notation 1U1VO1 Evaluation A	85KAR/ABD2	C₄H₆O₃ (liq) Propylene carbonate Heat Capacity 298.15 K, Temperature range 5 to 415 K. Entropy 298.15 K, Phase Changes c/liq 224.85 K, $\Delta H = 9617 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 102.0896 Wiswesser Line Notation T5OVOTJ D1 Evaluation A	76VAS/KOR $C_p = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₆O₂ (liq) γ -Butyrolactone Heat Capacity 298.15 K, Temperature range 13.8 to 340 K. Entropy 298.15 K, Phase Changes c/liq 229.78 K, $\Delta H = 9570 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 86.0902 Wiswesser Line Notation T5OVTJ Evaluation A	83LEB/YEV	C₄H₆O₃ (liq) Propylene carbonate Heat Capacity 298.15 K, Temperature range 5 to 415 K. Entropy 298.15 K, Phase Changes c/liq 224.85 K, $\Delta H = 9620 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 102.0896 Wiswesser Line Notation T5OVOTJ D1 Evaluation A	84VAS/PET $C_p = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₆O₂ (liq) Methacrylic acid; α -Methyl acrylic acid Heat Capacity 300 K, Temperature range 25 to 300 K. Entropy 300 K, Phase Changes c/liq 289.36 K Molecular Weight 86.0902 Wiswesser Line Notation QVY1&U1 Evaluation A	84VAS/PET	C₄H₆O₄Mg (gls) Magnesium acetate Heat Capacity 310.02 K, Temperature range 310 to 500 K. Unsmoothed experimental datum. Data also given for crystalline state from 348 to 501 K. Molecular Weight 142.3942 Wiswesser Line Notation OV1 2 .MG Evaluation B $T(\text{glass}) = 470 \text{ K}$.	71ONO/KIM $C_p = 20.452 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₆O₂ (liq) Methacrylic acid; α -Methyl acrylic acid Heat Capacity 298.15 K, Temperature range 287 to 350 K. Equation only. $C_p (\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = -551.8 + 8.0712 T$. C_p data calculated from equation. Phase Changes c/liq 287.5 K Molecular Weight 86.0902 Wiswesser Line Notation QVY1&U1 Evaluation B	85KAR/ABD	C₄H₆O₄Mg·4H₂O (c) Magnesium diethanoate tetrahydrate; Magnesium diacetate tetrahydrate Heat Capacity 298.15 K, Temperature range 270 to 400 K. Phase Changes c/aq 336 K, $\Delta H = 35800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 106.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Transition of tetrahydrate to less hydrated salt, presumably the monohydrate. Molecular Weight 214.4548 Wiswesser Line Notation OV2 2 .MG &QH 4 Evaluation B	84MEI/GRO $C_p = 321.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₆O₂ (liq) Methacrylic acid; α -Methyl acrylic acid Phase Changes c/liq 287.5 K, $\Delta H = 8062.5 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 28.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 86.0902 Wiswesser Line Notation QVY1&U1 Evaluation A	85KAR/ABD2	C₄H₆O₄Zn (c) Zinc acetate Heat Capacity 298 K, Temperature range 243 to 293 K. Value calculated from equation: $C_p (\text{kJ}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 3.44 \times 10^{-2} + 4 \times 10^{-4} T(\text{K})$. Molecular Weight 183.4690 Wiswesser Line Notation OV1 2 .ZN Evaluation C	84SPI/PRO $C_p = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₄H₆O₂)_n (c) Polymethacrylic acid Heat Capacity 298 K, Temperature range 298 to 463 K. $C_p = 0.233 + 9.00 \times 10^{-4} T \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}$ (20 to 130 °C). Value calculated from equation. Molecular Weight 86.0902 Wiswesser Line Notation /*1X*1&VQ/ Evaluation B $T(\text{glass}) = 433 \text{ K}$.	67PAV/RAB	C₄H₆O₄Zn·2H₂O (c) Zinc acetate dihydrate Heat Capacity 298 K, Temperature range 243 to 293 K. Value calculated from equation: $C_p (\text{kJ}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 3.40 \times 10^{-2} + 6 \times 10^{-4} T(\text{K})$. Molecular Weight 219.4994 Wiswesser Line Notation OV1 2 .ZN &QH 2 Evaluation C	84SPI/PRO $C_p = 212.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₄H₇KO₂ (c)	87FRA/NGE	C₄H₇O₂Tl (c)	84FER/LOP
Potassium butyrate		Thallium butyrate	
Heat Capacity 298.15 K,	$C_p = 157.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 320 K,	$C_p = 175 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 350 K.		Temperature range 320 to 480 K.	
Entropy 298.15 K,	$S = 211.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c,I/liq 456.7 K,	$\Delta H = 7691 \text{ J}\cdot\text{mol}^{-1}$
c,VII/c,VI 123.85 K,	$\Delta H = 409 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 16.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,VI/c,VB 142.3 K,	$\Delta S = 3.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 291.4681	
	$\Delta H = 269 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation OV3 .TL	
	$\Delta S = 1.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Bifurcated transitions.			
c,VB/c,VA 250 K		C₄H₈ (liq)	71RAB/LEB
Diffuse anomaly in heat capacity curve.		2-Methylpropene; Isobutene	
c,V/c,IV 461.4 K		Heat Capacity 266.26 K,	$C_p = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,IV/c,III 467.2 K		Temperature range 90 to 266 K.	
c,III/c,II 541 K		Phase Changes	
c,II/c,I 562.2 K		c/liq 132.38 K	
c,I/liq 626.1 K		liq/g 266.26 K	
Solid-liquid crystal.		Molecular Weight 56.1072	
Molecular Weight 126.1964		Wiswesser Line Notation 1Y1&U1	
Wiswesser Line Notation OV3 .KA		Evaluation B	
Evaluation A			
Liquid crystal-isotropic liquid transition at 677.3 K.			
C₄H₇KO₂ (c)	84FRA/WES2	C₄H₈ (liq)	83CHA/HAL
Potassium 2-methylpropanoate		<i>cis</i> -2-Butene	
Heat Capacity 298.15 K,	$C_p = 166.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 127 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 8 to 350 K.		Temperature range 5 to 367 K.	
Entropy 298.15 K,	$S = 192.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 220 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 126.1964		Phase Changes	
Wiswesser Line Notation OVY1&1 .KA		c/liq 134.26 K,	$\Delta H = 7309 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 56.1072	
		Wiswesser Line Notation 2U2 -C	
		Evaluation A	
		A reevaluation of the original measured data from:	
		36TOD/PAR, 44SCO/FER, 52SCH/SAG.	
C₄H₇LiO₂ (c)	86NGE/WES	C₄H₈ (liq)	83CHA/HAL
Lithium butyrate		<i>trans</i> -2-Butene	
Heat Capacity 298.15 K,	$C_p = 153.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 280 K,	$C_p = 124.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 350 K.		Temperature range 14 to 271 K.	
Entropy 298.15 K,	$S = 173.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 280 K,	$S = 163.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 94.0391		Phase Changes	
Wiswesser Line Notation OV3 .LI		c/liq 167.62 K,	$\Delta H = 9757 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 58.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 56.1072	
		Wiswesser Line Notation 2U2 -T	
		Evaluation A	
		A reevaluation of the original measured data from:	
		36TOD/PAR, 45GUT/PIT.	
C₄H₇NO (liq)	62KOL/PAU	C₄H₈ (liq)	49SCH/SAG
α -Pyrrolidone		1-Butene	
Heat Capacity 300.00 K,	$C_p = 169.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 294 K,	$C_p = 128.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 60 to 350 K.		Temperature range 294 to 378 K.	
Entropy 310.00 K,	$S = 189.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_p given as $0.548 \text{ Btu}(\text{lb})^{-1}(\text{°R})^{-1}$ at 70°F at bubble point.	
Phase Changes		Molecular Weight 56.1072	
c/liq 299.082 K,	$\Delta H = 13920 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 3U1	
	$\Delta S = 46.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 85.1033			
Wiswesser Line Notation T5MVTJ			
Evaluation B			
C₄H₇O₂Tl (c)	76MEI/SEY		
Thallium butyrate			
Phase Changes			
c,I/liq 459 K,	$\Delta H = 6694 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 14.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Solid-mesophase.			
Molecular Weight 291.4681			
Wiswesser Line Notation OV3 .TL			
Evaluation B			

C₄H₈ (liq)	83CHA/HAL	C₄H₈N₈O₈ (c)	83KOS/SHO
1-Butene		1,3,5,7-Tetranitro-1,3,5,7-tetrazocine; Octogen; HMX	
Heat Capacity 298.15 K, Temperature range 12 to 360 K.	$C_p = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K, Temperature range 294 to 486 K.	$C_p = 293 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 227.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Graphical extrapolation of data to 298 K; powdered blend.	
Phase Changes		Molecular Weight 296.1560	
c/liq 87.82 K,	$\Delta H = 3848 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation T8N CN EN GNTJ ANW CNW ENW GNW	
Molecular Weight 56.1072		Evaluation C	
Wiswesser Line Notation 3U1		C₄H₈N₈O₈ (c, β)	84KOS/SHO
Evaluation A		1,3,5,7-Tetranitro-1,3,5,7-tetrazocine(β); Octogen(β); HMX	
A reevaluation of the original measured data from: 46AST/FIN, 49SCH/SAG, 36TOD/PAR.		Heat Capacity 298 K, Temperature range 294 to 486 K.	$C_p = 297 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Graphical extrapolation of data to 298 K; single crystals, beta phase.	
(C₄H₈)_n (c)	71RAB/LEB	Phase Changes	
Polyisobutylene		c,II/c,I 453 K (c,beta/c,delta)	
Heat Capacity 300 K, Temperature range 10 to 300 K.	$C_p = 109.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 296.1560	
Molecular Weight 56.1072		Wiswesser Line Notation T8N CN EN GNTJ ANW CNW ENW GNW	
Wiswesser Line Notation /*1X*1&1/		Evaluation C	
Evaluation A		C₄H₈Cl₂ (liq)	85LAI/WIL
		1,4-Dichlorobutane	
		Heat Capacity 298.15 K, One temperature.	$C_p = 183.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 127.0132	
		Wiswesser Line Notation G4G	
		Evaluation A	
C₄H₈N₈O₈ (c, α)	70LIC	C₄H₈O (liq)	88BAG/GUR
1,3,5,7-Tetranitro-1,3,5,7-tetrazocine(α); Octogen(α); HMX		2-Methoxy-1-propene	
Heat Capacity 298 K, Temperature range 203 to 523 K. α -Phase.	$C_p = 307 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 301.50 K, Temperature range 270 to 340 K.	$C_p = 162.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_p = 0.0991 + 5 \times 10^{-4} T \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (-70 to 250 °C).		Unsmoothed experimental datum.	
Phase Changes		Molecular Weight 72.1066	
c,II/c,I 193-201 K, α - δ Transition.	$\Delta H = 7398 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 1YO1U1	
Data also given for the following transitions:		Evaluation B	
β - δ ; $T = 167$ to 183 °C; τ - δ ; $T = 175$ to 182 °C;	$\Delta H = 9801 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 2788 \text{ J}\cdot\text{mol}^{-1}$	C₄H₈O (liq)	84GRO/BEN
Molecular Weight 296.1560		Butanone; Methyl ethyl ketone	
Wiswesser Line Notation T8N CN EN GNTJ ANW CNW ENW GNW		Heat Capacity 298.15 K, One temperature.	$C_p = 157.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Molecular Weight 72.1066	
Data also given for the following polymorphic forms:		Wiswesser Line Notation 2V1	
β -HMX; $C_p(298 \text{ K}) = 301 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; $C_p = 0.0935 + 5 \times 10^{-4} T \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (-70 to 250 °C);		Evaluation B	
τ -HMX; $C_p(298 \text{ K}) = 328 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; $C_p = 0.1159 + 5 \times 10^{-4} T \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (-70 to 250 °C);		C₄H₈O (liq)	86RED
δ -HMX; $C_p(298 \text{ K}) = 387 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; $C_p = 0.1642 + 5 \times 10^{-4} T \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (-70 to 250 °C).		Butanone; Methyl ethyl ketone	
		Heat Capacity 303.15 K, Temperature range 303.15, 313.15 K.	$C_p = 162.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 72.1066	
		Wiswesser Line Notation 2V1	
		Evaluation B	
		C₄H₈O (liq)	77LEB/LIT2
		Tetrahydrofuran; Oxolane	
		Heat Capacity 298.15 K, Temperature range 5 to 400 K.	$C_p = 123.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Entropy 298.15 K,	$S = 203.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
		c/liq 164.76 K, $\Delta H = 8540 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 51.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
		liq/g 338.9 K	
		Molecular Weight 72.1066	
		Wiswesser Line Notation T5OTJ	
		Evaluation A	
C₄H₈N₈O₈ (c, β)	83KOS/SHO		
1,3,5,7-Tetranitro-1,3,5,7-tetrazocine(β); Octogen(β); HMX			
Heat Capacity 315 K, Temperature range 294 to 486 K. β -phase, powdered blend.	$C_p = 321.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C_p given as $1.084 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.			
Molecular Weight 296.1560			
Wiswesser Line Notation T8N CN EN GNTJ ANW CNW ENW GNW			
Evaluation B			

C₄H₈O (liq)	79LEB/LIT	(C₄H₈O)_n (c)	77LEB/LIT2
Tetrahydrofuran; Oxolane		Polytetrahydrofuran	
Heat Capacity 298.15 K		Heat Capacity 200 K,	$C_p = 81.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 8 to 322 K		Temperature range 5 to 400 K.	
Entropy 298.15 K	$S = 203.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Transition region at 298.15 K.	
Phase Changes		Entropy 200 K,	$S = 83.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 164.76 K	$\Delta H = 8540 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 51.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 316 K,	$\Delta H = 11000 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 72.1066			$\Delta S = 34.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation T5OTU		Molecular Weight 72.1066	
Evaluation A		Wiswesser Line Notation /*O4*/	
		Evaluation A	
		$T(\text{glass}) = 186 \text{ K}$.	
C₄H₈O·17H₂O (liq)	85HAN	C₄H₈O₂ (liq)	86JIM/ROM
Tetrahydrofuran clathrate hydrate		Ethyl acetate; Ethyl ethanoate	
Heat Capacity		Heat Capacity 298.15 K,	$C_p = 169.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 95 to 260 K.		One temperature.	
Phase Changes		Molecular Weight 88.1060	
c/liq 277.3 K,	$\Delta H = 99100 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 2OV1	
	$\Delta S = 357.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 378.3650			
Wiswesser Line Notation T5OTJ &QH 17		C₄H₈O₂ (liq)	87ZAB/HYN
Evaluation A		Ethyl acetate; Ethyl ethanoate	
Actual formula: C ₄ H ₈ O·17H ₂ O.		Heat Capacity 298.32 K,	$C_p = 170.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 294 to 340 K.	
		Unsmoothed experimental datum.	
		Molecular Weight 88.1060	
		Wiswesser Line Notation 2OV1	
		Evaluation B	
C₄H₈O·17H₂O (c)	82LEA/MUR	C₄H₈O₂ (liq)	84GUS/SHU
Tetrahydrofuran clathrate hydrate		Methyl propionate; Methyl propanoate	
Heat Capacity		Heat Capacity 298.38 K,	$C_p = 175.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 120 to 260 K.		Temperature range 205 to 348 K.	
Data given graphically.		Unsmoothed experimental datum.	
Phase Changes		Molecular Weight 88.1060	
c/liq 277.4 K,	$\Delta H = 98000 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 2VO1	
	$\Delta S = 353.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation C	
Molecular Weight 378.3650			
Wiswesser Line Notation T5OTJ &QH 17		C₄H₈O₂ (liq)	86JIM/ROM
Evaluation A		Methyl propionate; Methyl propanoate	
Actual formula: C ₄ H ₈ O·16.9H ₂ O		Heat Capacity 298.15 K,	$C_p = 172.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
		Molecular Weight 88.1060	
		Wiswesser Line Notation 2VO1	
		Evaluation B	
C₄H₈O·17H₂O (liq)	88YAM/OGU	C₄H₈O₂ (liq)	87ZAB/HYN
Tetrahydrofuran clathrate hydrate		Methyl propionate; Methyl propanoate	
Heat Capacity 298.15 K,	$C_p = 1523.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 301.45 K,	$C_p = 174.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 300 K.		Temperature range 296 to 342 K.	
Entropy 298.15 K,	$S = 1298.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Unsmoothed experimental datum.	
Phase Changes		Molecular Weight 88.1060	
c,II/c,I 85 K		Wiswesser Line Notation 2VO1	
Glass transition.		Evaluation B	
c/liq 277.4 K,	$\Delta H = 96980 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 349.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₈O₂ (liq)	86JIM/ROM
Molecular Weight 378.3650		Methyl propionate; Methyl propanoate	
Wiswesser Line Notation T5OTJ &QH 17		Heat Capacity 298.15 K,	$C_p = 172.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		One temperature.	
Actual formula: C ₄ H ₈ O·16.64H ₂ O.		Molecular Weight 88.1060	
		Wiswesser Line Notation 2VO1	
		Evaluation B	
(C₄H₈O)_n (c)	77LEB/LIT	C₄H₈O₂ (liq)	87ZAB/HYN
Polytetrahydrofuran		Methyl propionate; Methyl propanoate	
Phase Changes		Heat Capacity 301.45 K,	$C_p = 174.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 186 K		Temperature range 296 to 342 K.	
Glass point.		Unsmoothed experimental datum.	
c/liq 316 K,	$\Delta H = 11000 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 88.1060	
	$\Delta S = 34.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 2VO1	
Molecular Weight 72.1066		Evaluation B	
Wiswesser Line Notation /*O4*/			
Evaluation A		C₄H₈O₂ (liq)	86JIM/ROM
		Propyl methanoate; Propyl formate	
		Heat Capacity 298.15 K,	$C_p = 171.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
		Molecular Weight 88.1060	
		Wiswesser Line Notation 3OVH	
		Evaluation B	

C₄H₈O₂ (liq) Isobutyric acid; 2-Methylpropanoic acid Heat Capacity 298.15 K, $C_p = 181.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 270 to 370 K. Equation only. $C_p = 130.1 - 0.08156 T + 0.0008541 T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 88.1060 Wiswesser Line Notation QVY1&1 Evaluation C	82BIR/SIK	C₄H₈S₂ (c) 1,4-Dithiane Heat Capacity 300 K, $C_p = 129.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 450 K. Phase Changes c/liq 384.6 K, $\Delta H = 21600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 120.2272 Wiswesser Line Notation T6S DSTJ Evaluation B	83DEW/OFF
C₄H₈O₂·17H₂O (liq) 1,3-Dioxane clathrate hydrate Heat Capacity 250 K, $C_p = 745 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 95 to 250 K. Phase Changes c,l/liq 269.6 K, $\Delta H = 89900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 333.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 394.3644 Wiswesser Line Notation T6O COTJ &QH 17 Evaluation A Actual formula: C ₄ H ₈ O ₂ ·17H ₂ O.	85HAN	C₄H₉Cl (liq) 1-Chlorobutane; <i>n</i> -Butyl chloride Heat Capacity 298.15 K, $C_p = 159.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 92.5681 Wiswesser Line Notation G4 Evaluation A	85LAI/WIL
C₄H₈O₂ (liq) 1,4-Dioxane Heat Capacity 298 K, $C_p = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 88.1060 Wiswesser Line Notation T6O DOTJ Evaluation C	69SUB/KHA	C₄H₉NO (c) Morpholine; Tetrahydro-1,4-isoxazine; Diethyleneimide oxide Heat Capacity 298.15 K, $C_p = 164.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 293 to 353 K. Data given graphically. C_p value calculated from equation: $C_p (\text{J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}) = 1.785 + 0.00427 T (^\circ\text{C})$. Molecular Weight 87.1212 Wiswesser Line Notation T6M DOTJ Evaluation C	80LYA
C₄H₈O₂ (liq) 1,4-Dioxane Heat Capacity 298 K, $C_p = 149.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 88.1060 Wiswesser Line Notation T6O DOTJ Evaluation B	79MUR/SUB	C₄H₉NO (c) 2-Methylpropanamide Heat Capacity 298.15 K, $C_p = 148.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature; C_p given as $1.70 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/g 298.15 K, $\Delta H = 86000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 288.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 87.1212 Wiswesser Line Notation ZVY1&1 Evaluation A	89ABB/JIM
C₄H₈O₂ (liq) 1,4-Dioxane Heat Capacity 298.15 K, $C_p = 150.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 88.1060 Wiswesser Line Notation T6O DOTJ Evaluation B	84GRO/ING	C₄H₉NO₂ (c) 4-Aminobutanoic acid; τ -Aminobutyric acid Heat Capacity 298 K, $C_p = 133.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 103.1206 Wiswesser Line Notation Z3VQ Evaluation B	83SKO/SAB
C₄H₈O₃ (liq) Ethylene glycol acetate Heat Capacity 298.15 K, $C_p = 203 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 273.15 to 323.15 K $C_p^\circ (\text{kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 0.042568T - 10.686$ Molecular Weight 101.0817 Wiswesser Line Notation Q2OV1 Evaluation D	83SAN/CIO	C₄H₉NO₂ (c) α -Aminobutyric acid (L); 2-Aminobutanoic acid (L) Phase Changes c,lI/c,I 356 K, $\Delta H = 530 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 103.1206 Wiswesser Line Notation ZY2&QV -L Evaluation B	84GRU/BOU
C₄H₈S₂ (c) 1,3-Dithiane Heat Capacity 300 K, $C_p = 113.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 450 K. Phase Changes c,lI/c,I 316.4 K, $\Delta H = 800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,l/liq 327.2 K, $\Delta H = 14400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 120.2272 Wiswesser Line Notation T6S CSTJ Evaluation B	83DEW/OFF		

C₄H₁₀Hg (liq) Diethyl mercury Heat Capacity 298.15 K, Temperature range 5 to 300 K. Phase Changes c/liq 181.45 K, Molecular Weight 258.7130 Wiswesser Line Notation 2-HG-2 Evaluation A	78BUR/KAM $C_p = 182.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 57.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) Isobutyl alcohol; 2-Methyl-1-propanol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation Q1Y1&1 Evaluation B	88OKA/OGA $C_p = 181.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀N₂ (liq) Piperazine Heat Capacity 413 K, Temperature range 413 to 473 K. Molecular Weight 86.1364 Wiswesser Line Notation T6M DMTU Evaluation D	88BOB/KAM $C_p = 237 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) Isobutyl alcohol; 2-Methyl-1-propanol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation Q1Y1&1 Evaluation B	88PIE/SOM $C_p = 182.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀N₂O (c) 1,1,3-Trimethylurea Phase Changes c/liq 344.4 K, Molecular Weight 102.1358 Wiswesser Line Notation 1MVN1&1 Evaluation A	87DEL/FER $\Delta H = 14300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) 1-Butanol; <i>n</i> -Butyl alcohol Heat Capacity 298.15 K, Molecular Weight 74.1224 Wiswesser Line Notation Q4 Evaluation B	84ZEG/SOM $C_p = 177.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀N₂O (c) Isopropylurea; Monoisopropylurea Phase Changes c,II/c,I 375.5 K, c/liq 427.4 K, Molecular Weight 102.1358 Wiswesser Line Notation ZVMY1&1 Evaluation A	87DEL/FER $\Delta H = 2310 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 17400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 40.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) 1-Butanol; <i>n</i> -Butyl alcohol Heat Capacity 298.15 K, Temperature range 298.15 to 368.15 K. Molecular Weight 74.1224 Wiswesser Line Notation Q4 Evaluation C	86GAT/WOO $C_p = 176.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀N₂O (c) Propylurea; Monopropylurea Phase Changes c/liq 381.0 K, Molecular Weight 102.1358 Wiswesser Line Notation ZVM3 Evaluation A	87DEL/FER $\Delta H = 14630 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 38.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) 1-Butanol; <i>n</i> -Butyl alcohol Heat Capacity 298 K, Molecular Weight 74.1224 Wiswesser Line Notation Q4 Evaluation B	86KOR/KUK $C_p = 177.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O (liq) 2-Oxapentane; Methyl <i>n</i> -propyl ether Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation 3O1 Evaluation B	75FEN/HAR $C_p = 165.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) 1-Butanol; <i>n</i> -Butyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation Q4 Evaluation A	86TAN/TOY $C_p = 176.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O (liq) Isobutyl alcohol; 2-Methyl-1-propanol Heat Capacity 303.15 K, Temperature range 293.15 to 353.15 K. C_p given as $2504 \text{ J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 74.1224 Wiswesser Line Notation Q1Y1&1 Evaluation C	78RYB/EME $C_p = 185.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O (liq) <i>tert</i> -Butyl alcohol; 2-Methyl-2-propanol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation QX1&1&1 Evaluation A	76SKO/SUU $C_p = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O (liq) Isobutyl alcohol; 2-Methyl-1-propanol Heat Capacity 299.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation QX1&1&1 Evaluation B	88OKA/OGA $C_p = 221.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₄H₁₀O (liq) 2-Butanol; sec-Butyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation QY2&1 Evaluation B	88OKA/OGA $C_p = 198.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O₂Se (liq) β -Selenodiglycol Heat Capacity 298.15 K, Temperature range 12 to 300 K. Entropy 298.15 K, Phase Changes c/liq 154.0 K, Glassy (solid) to liquid. Molecular Weight 169.0818 Wiswesser Line Notation Q2-SE-2Q Evaluation A	83GEI/GUS $C_p = 349.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 358.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 110 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O (liq) 2-Butanol; sec-Butyl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 74.1224 Wiswesser Line Notation QY2&1 Evaluation B	88PIE/SOM $C_p = 196.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O₃ (liq) Diethylene glycol; 1,5-Dihydroxy-3-oxapentane Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 106.1212 Wiswesser Line Notation Q2O2Q Evaluation B	82ZAR $C_p = 243.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₄H₁₀OSi)_n (liq) Poly(diethylsiloxane) Heat Capacity 298.15 K, Temperature range 14 to 330 K. Entropy 298.15 K, Phase Changes c,II/c,I 203 K, Degree of crystallinity = 72%. c/liq 295 K, Degree of crystallinity = 100%. Molecular Weight 102.2079 Wiswesser Line Notation /*-SI-2&2&O*/ Evaluation A $T(\text{glass}) = 130 \text{ K}$	82KUL/LEB $C_p = 165.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 215.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2070 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2876 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀O₃ (c) 1,1,1-Trihydroxymethylpropane Heat Capacity 301.29 K Temperature range 270 to 354 K. Value is unsmoothed experimental datum. Phase Changes c/liq 333.40 K Molecular Weight 106.1212 Wiswesser Line Notation QXQQY1&1 Evaluation A	89ZHA/YAN $213.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 21450 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₄H₁₀OSi)_n (liq) Poly(diethylsiloxane) Heat Capacity 298.15 K, Temperature range 13 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 203 K, Degree of crystallinity = 72%. c,I/liq 295 K, Degree of crystallinity = 100%. Molecular Weight 102.2079 Wiswesser Line Notation /*-SI-2&2&O*/ Evaluation A $T(\text{glass}) = 130 \text{ K}$	84LEB/KUL $C_p = 165.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 215.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2070 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2860 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀S (liq) 1-Butanethiol; <i>n</i> -Butyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 155.76 + 2.780 \times 10^{-2}T + 8.100 \times 10^{-5}T^2$. Molecular Weight 90.1830 Wiswesser Line Notation SH4 Evaluation B	82TUT/GAB $C_p = 171.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O₂ (liq) 1,4-Butanediol; 1,4-Dihydroxybutane Heat Capacity 298.15 K, Temperature range 5 to 450 K. Entropy 298.15 K, Phase Changes c/liq 293.58 K, Molecular Weight 90.1218 Wiswesser Line Notation Q4Q Evaluation A	84VAS/PET $C_p = 200.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 223.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀Zn (liq) Diethyl zinc Heat Capacity 298.15 K, Temperature range 18 to 273 K. Entropy 298.15 K, Phase Changes c/liq 239.80 K, Molecular Weight 123.5030 Wiswesser Line Notation 2-ZN-2 Evaluation A	87GIB/GRI $C_p = 188.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 276.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18050 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₀O₂ (liq) 1,4-Butanediol; 1,4-Dihydroxybutane Heat Capacity 298.15 K, Temperature range 5 to 450 K. Entropy 298.15 K, Phase Changes c/liq 293.58 K, Molecular Weight 90.1218 Wiswesser Line Notation Q4Q Evaluation A	84VAS/PET $C_p = 200.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 223.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₀Zn (liq) Diethyl zinc Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 148.4 K, c,I/liq 236.98 K, Molecular Weight 123.5030 Wiswesser Line Notation 2-ZN-2 Evaluation A	88RAB/NIS $C_p = 194.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 290.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 275.4 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16634 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 70.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₄H₁₁NO (liq) 3-Methoxypropylamine Heat Capacity 298.15 K, Temperature Range 55 to 300 K Entropy 298.15 K, Phase Changes Molecular Weight 89.1370 Wiswesser Line Notation Z301 Evaluation B	84GEI/KAR $C_p = 225.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 257.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₂Ge (liq) Tetramethylgermane Heat Capacity 300 K, Temperature range 15 to 300 K. Entropy 300 K, Phase Changes c/liq 184.368 K, liq/g 285 K, Molecular Weight 132.7288 Wiswesser Line Notation 1-GE-1&1&1 Evaluation A	70VAL/KIL $C_p = 196.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 296.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7447.1 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 40.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 28125 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ P = 1 atm
C₄H₁₁NO₂ (c) Diethanolamine Heat Capacity 298.15 K, One temperature. C_p given as $1.3 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$, an estimated value. Molecular Weight 105.1364 Wiswesser Line Notation Q2M2Q Evaluation C	82MIN/SAB $C_p = 137 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₂O₄Si (liq) Tetramethyl silicate; Methyl silicate Heat Capacity Temperature range 296 to 388 K. One value given for the entire temperature range. C_p given as $0.5011 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Phase Changes liq/g 394 K, Molecular Weight 152.2219 Wiswesser Line Notation 1O-SI-O1&O1&O1 Evaluation D	08KAH/KOE $C_p = 319 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 30900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 78.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₁N₃O₇ (c) Diglycine nitrate Heat Capacity 298.15 K, Temperature range 80 to 300 K. Data given graphically. $C_p = -0.0108 + 0.231 \times 10^{-2}T - 0.631 \times 10^{-5}T^2 + 0.830 \times 10^{-8}T^3 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ (80 to 300 K). C_p value calculated from equation. Phase Changes c,II/c,I 206.5 K, Molecular Weight 213.1468 Wiswesser Line Notation Z1VQ 2 &WNQ Evaluation C	85TAR/SAV $C_p = 297 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1072 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₂Pb (liq) Tetramethyl lead Phase Changes c/liq 242.92 K, Molecular Weight 267.3388 Wiswesser Line Notation 1-PB-1&1&1 Evaluation B	54STA/WAR $\Delta H = 10799 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₂Cl₃MnN (c) Tetramethylammonium trichloromanganate(II) Heat Capacity 299.55 K, Temperature range 1.5 to 300 K. Value is unsmoothed experimental datum. Phase Changes c,II/c,I 126.52 K Monoclinic-hexagonal. Molecular Weight 235.4425 Wiswesser Line Notation 1K1&1&1 .MN G3 Evaluation A	83DUN/JEW $C_p = 240.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₂Sn (liq) Tetramethyl tin; Tetramethyl stannane Phase Changes c/liq 218.18 K, Molecular Weight 178.8488 Wiswesser Line Notation 1-SN-1&1&1 Evaluation B	54STA/WAR $\Delta H = 9439 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₄H₁₂Cl₄FeN (c) Tetramethylammonium tetrachloroferrate (III) Heat Capacity Temperature range 60 to 350 K. Data given graphically. Phase Changes c,VI/c,V 236.1 K, c,V/c,IV 291.4 K, c,IV/c,III 307.4 K, c,III/c,II 347.0 K, c,II/c,I 381.0 K, Molecular Weight 271.8045 Wiswesser Line Notation 1K1&1&1 .FE G4 Evaluation A	87RUI/LOP $\Delta H = 498.9 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2524 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 734.3 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 713.1 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5319.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₄H₁₂Sn (liq) Tetramethyl tin; Tetramethyl stannane Heat Capacity 298.15 K, Temperature range 5 to 313 K. Entropy 298.15 K, Phase Changes c/liq 218.05 K, Molecular Weight 178.8488 Wiswesser Line Notation 1-SN-1&1&1 Evaluation A	89SHE/RAB $C_p = 197.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 310.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9234 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₄H₁₃N₃ (liq) Diethylenetriamine Heat Capacity 313 K, Temperature range 313 to 493 K Molecular Weight 103.1668 Wiswesser Line Notation Z2M2Z Evaluation D	88BOB/KAM $C_p = 254 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₄H₁₆Cl₄MnN₂ (c) Tetrachlorobis-(ethylammonium) manganese II Phase Changes c,III/c,II 222 K, c,II/c,I 424 K, Molecular Weight 288.9338 Wiswesser Line Notation 2ZH2 .MN G4 Evaluation A	75BOC/ARR $\Delta H = 43.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4.1 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₇N (liq) N-Methylpyrrole Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Phase Changes c/liq 216.912 K Molecular Weight 81.1170 Wiswesser Line Notation T5NJ A1 Evaluation A	86STE/CHI $C_p = 150.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 200.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅F₁₂ (liq) <i>n</i> -Perfluoropentane Heat Capacity 293 K, Interpolated data. Molecular Weight 288.0358 Wiswesser Line Notation FXFFXFFXFFXFFXFFF Evaluation C	83CAM/DIA $C_p = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₇N (liq) N-Methylpyrrole Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Phase Changes c/liq 216.912 K, Molecular Weight 81.1170 Wiswesser Line Notation T5NJ A1 Evaluation A	87MES/TOD $C_p = 150.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 200.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7824.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅F₁₃N (liq) Perfluoromethyldiethylamine Phase Changes c/liq 150.1 K, Molecular Weight 321.0409 Wiswesser Line Notation FXFFXFFNXFFF&XFFXFFF Evaluation A	84GOL/KOL $\Delta H = 4600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 30.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₇N (liq) N-Methylpyrrole Heat Capacity 298.150 K, Temperature range 10 to 400 K. Entropy 298.150 K, Phase Changes c/liq 216.912 K, Molecular Weight 81.1170 Wiswesser Line Notation T5NJ A1 Evaluation A	88MES/TOD $C_p = 150.058 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 200.519 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7824.77 \text{ J}\cdot\text{mol}^{-1}$
C₅H₃F₇O₂ (liq) Methyl perfluorobutanoate Phase Changes c/liq 191.4 K, Molecular Weight 228.0663 Wiswesser Line Notation XFFXFFXFFVO1 Evaluation A	84GOL/KOL $\Delta H = 11770 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₇NO₂ (liq) Ethyl cyanoacetate Heat Capacity 298.15 K, Temperature range 90 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 162.5 K Glass transition. Transition temperature estimated from graph. c,I/liq 246.8 K, Molecular Weight 113.1158 Wiswesser Line Notation NC1VO2 Evaluation A	87KHO/BUG $C_p = 220.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 177.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11780 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₅F₃O₂ (liq) Trifluoromethyl (2-hydroxy-1-propenyl) ketone Phase Changes c/liq 232.4 K, Molecular Weight 154.0885 Wiswesser Line Notation QY1&U1VXFFF Evaluation A	84GOL/KOL $\Delta H = 8450 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₆ (liq) Cyclopentadiene Heat Capacity 298.15 K, Temperature range 14 to 330 K. Entropy 298.15 K, Phase Changes c/liq 176.60 K, Molecular Weight 66.1024 Wiswesser Line Notation L5 AHJ Evaluation A	75LEB/LEB $C_p = 115.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 182.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 8010 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $C_p = 133.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 210.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5756 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₆N₂O₂ (c) Thymine Phase Changes c/liq 321.3 K, Molecular Weight 126.1146 Wiswesser Line Notation T6MVMVJ E1 Evaluation C	1889EYK $\Delta H = 17510 \text{ J}\cdot\text{mol}^{-1}$		

C₅H₈ (liq)	78LEB/TSV	(C₅H₈)_n (gls)	77LEB/RAB3
Methylenecyclobutane		<i>cis</i> -Polypentenamer	
Heat Capacity 298.15 K,	$C_p = 133.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 315 K.		Temperature range 7 to 330 K.	
Entropy 298.15 K,	$S = 210.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Glassy state.	
Phase Changes		Data given graphically.	
c/liq 138.62 K,	$\Delta H = 5755 \text{ J}\cdot\text{mol}^{-1}$	Value estimated from graph.	
	$\Delta S = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 152 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 68.1182		Highly elastic state.	
Wiswesser Line Notation L4YTJ AU1		Phase Changes	
Evaluation A		c/liq 232 K,	$\Delta H = 5200 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 22.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 68.1182	
		Wiswesser Line Notation /*YU4* -C/	
		Evaluation B	
		$T(\text{glass}) = 156 \text{ K}$.	
C₅H₈ (liq)	78LEB/TSV2	(C₅H₈)_n (gls)	77LEB/RAB3
Methylenecyclobutane		<i>trans</i> -Polypentenamer	
Heat Capacity 298.15 K,	$C_p = 133.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 136 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 315 K.		Temperature range 7 to 330 K.	
Entropy 298.15 K,	$S = 210.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Glassy state.	
Phase Changes		Data given graphically.	
c/liq 138.62 K,	$\Delta H = 5755 \text{ J}\cdot\text{mol}^{-1}$	Value estimated from graph.	
	$\Delta S = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 150 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 68.1182		Highly elastic state.	
Wiswesser Line Notation L4YTJ AU1		Phase Changes	
Evaluation A		c/liq 310 K,	$\Delta H = 8900 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 28.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 68.1182	
		Wiswesser Line Notation /*YU4* -T/	
		Evaluation B	
		$T(\text{glass}) = 175 \text{ K}$.	
(C₅H₈)_n (liq)	76LEB/RAB	C₅H₈O₂ (liq)	71LEB/RAB
Polypentenamer		Methyl 2-methylpropenoate; Methyl methacrylate	
Heat Capacity		Heat Capacity 300 K,	$C_p = 192.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 322 K.		Temperature range 60 to 300 K.	
Phase Changes		Entropy 300 K,	$S = 266.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 293 K,	$\Delta H = 8075 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 27.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 225.59 K,	$\Delta H = 14435 \text{ J}\cdot\text{mol}^{-1}$
100% crystallinity.			$\Delta S = 64.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 68.1182		Molecular Weight 100.1170	
Wiswesser Line Notation /*YU4*/		Wiswesser Line Notation 1UY1&VO1	
Evaluation A		Evaluation B	
$T(\text{glass}) = 173 \text{ K}$.			
(C₅H₈)_n (liq)	76LEB/RAB2	C₅H₈O₂ (liq)	84VAS/PET
Polypentenamer		Methyl 2-methylpropenoate; Methyl methacrylate	
Heat Capacity 298.15 K,	$C_p = 132.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 192.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 322 K.		Temperature range 60 to 300 K.	
Entropy 298.15 K,	$S = 149.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 266.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 293 K,	$\Delta H = 8080 \text{ J}\cdot\text{mol}^{-1}$	c,l/liq 225.59 K	
	$\Delta S = 27.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 100.1170	
Molecular Weight 68.1182		Wiswesser Line Notation 1UY1&VO1	
Wiswesser Line Notation /*YU4*/		Evaluation B	
Evaluation A			
$T(\text{glass}) = 173.5 \text{ K}$.			
(C₅H₈)_n (gls)	77LEB/LIT3	C₅H₈O₂ (liq)	85KAR/ABD
<i>cis</i> -Polypentenamer		Methyl 2-methylpropenoate; Methyl methacrylate	
Heat Capacity 298.15 K,	$C_p = 128.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 215.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 7 to 325 K.		Temperature range 225 to 350 K.	
Entropy 298.15 K,	$S = 140.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Equation only.	
Molecular Weight 68.1182		$C_p (\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 114.1 + 6.8299 T$.	
Wiswesser Line Notation /*YU4* -C/		C_p data calculated from equation.	
Evaluation A		Phase Changes	
$T(\text{glass}) = 158 \text{ K}$, transition from glass to highly elastic phase.		c/liq 225.6 K	
		Molecular Weight 100.1170	
		Wiswesser Line Notation 1UY1&VO1	
		Evaluation B	

C₅H₈O₂ (liq) Methyl 2-methylpropenoate; Methyl methacrylate Phase Changes c/liq 225.5 K, $\Delta H = 13451 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 59.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 100.1170 Wiswesser Line Notation 1UY1&VO1 Evaluation A	85KAR/ABD2	C₅H₉LiO₂ (c) Lithium <i>n</i> -pentanoate Heat Capacity 298.15 K, Temperature range 5 to 350 K. Entropy 298.15 K, Phase Changes c,III/c,II 209.3 K, $\Delta H = 665 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2745 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 16.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 319.06 K, Molecular Weight 108.0659 Wiswesser Line Notation OV4 .LI Evaluation A	86FRA/NGE $C_p = 224.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 198.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₈O₂ (liq) Acetylacetone, enol form Heat Capacity 298.15 K, Temperature range 80 to 300 K. $C_{\text{sat}}(\text{liq}) = 0.8978 + 3.964 \times 10^{-3} T \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (260 to 300 K); $C_{\text{sat}}(298.15 \text{ K})$ given as $2.080 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Entropy 298.15 K, Extrapolated below 90 K. $S(298.15 \text{ K})$ given as $2.611 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Phase Changes c/liq 254.8 K, $\Delta H = 14497 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 100.1170 Wiswesser Line Notation QY1&UIV1 Evaluation A(C_p), B(S) $C_p(\text{solid}) = 0.4257 + 3.674 \times 10^{-3} T \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (90 to 200 K).	69MEL/MER	C₅H₉N (liq) Valeronitrile Heat Capacity Temperature range 294.15 to 403.15 K. Heat capacity is an average value over the temperature range. Molecular Weight 83.1328 Wiswesser Line Notation NC4 Evaluation D	01KAH $C_p = 180.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₈O₂ (liq) δ -Valerolactone Heat Capacity 298.15 K, Temperature range 13.8 to 340 K. Entropy 298.15 K, Phase Changes c,IV/c,III 118.1 K, $\Delta H = 457 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,III/c,II 122–155 K, $\Delta H = 310 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 180–225 K, $\Delta H = 205 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 262.82 K, $\Delta H = 10530 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 100.1170 Wiswesser Line Notation T6OVTJ Evaluation A	83LEB/YEV	C₅H₉NO (c) α -Piperidone Heat Capacity 295.00 K, Temperature range 60 to 350 K. Entropy 298.15 K, Phase Changes c/liq 342.305 K, $\Delta H = 16096 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 99.1299 Wiswesser Line Notation T6MVTU Evaluation B	62KOL/PAU $C_p = 208.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 164.9 \text{ J}\cdot\text{mol}^{-1}$
(C₅H₈O₂)_n (c) Poly(methyl methacrylate) Heat Capacity 298 K, Temperature range 298 to 463 K. $C_p = 0.265 + 1.39 \times 10^{-3} T \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}$ (20 to 90 °C). Value calculated from equation. Molecular Weight 100.1170 Wiswesser Line Notation /*1X*1&VO1/ Evaluation B $T(\text{glass}) = 378 \text{ K}$.	67PAV/RAB	C₅H₉NO₄ (c) Glutamic acid Heat Capacity 298 K, One temperature. Molecular Weight 147.1304 Wiswesser Line Notation QVYZ2VQ Evaluation B C_p same for D and L forms.	75SAK/SEK $C_p = 175.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.19 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.
(C₅H₈O₂)_n (c) Poly(methyl methacrylate) Heat Capacity 300 K, Temperature range 60 to 300 K. Entropy 300 K, Molecular Weight 100.1170 Wiswesser Line Notation /*1X*1&VO1/ Evaluation B	71LEB/RAB	C₅H₉O₂TI (c) Thallium pentanoate Phase Changes c,II/c,I 354.6 K, $\Delta H = 2259 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 455 K, $\Delta H = 5439 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 12.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-mesophase. liq/liq 487 K, $\Delta H = 3054 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Mesophase-isotropic. Molecular Weight 305.4949 Wiswesser Line Notation OV4 .TL Evaluation B	76MEI/SEY

C₅H₉O₂Tl (c)	84FER/LOP	C₅H₁₀ (liq)	83CHA/HAL
Thallium pentanoate		<i>trans</i> -2-Pentene	
Heat Capacity 320 K,	$C_p = 216 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 157.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 320 to 480 K.		Temperature range 12 to 302 K.	
Phase Changes		Entropy 298.15 K,	$S = 256.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 353.0 K,	$\Delta H = 2104 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 5.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 132.93 K,	$\Delta H = 8352 \text{ J}\cdot\text{mol}^{-1}$
c,I/liq 455.0 K,	$\Delta H = 5704 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 62.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 12.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 70.1340	
Solid to mesophase.		Wiswesser Line Notation 3U2-T	
Molecular Weight 305.4949		Evaluation A	
Wiswesser Line Notation OV4 .TL		A reevaluation of the original measured data from: 47TOD/OLI.	
Evaluation A		C₅H₁₀ (liq)	49SCH/SAG
Mesophase to isotropic liquid phase change data also given:		1-Pentene	
488.0 K;	$\Delta H = 3051 \text{ J}\cdot\text{mol}^{-1}$;	Heat Capacity 294 K,	$C_p = 154.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 6.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	Temperature range 294 to 378 K.	
C₅H₁₀ (liq)	83CHA/HAL	C_p given as $0.526 \text{ Btu}(\text{lb})^{-1}(\text{°R})^{-1}$ at 70°F.	
3-Methyl-1-butene		Molecular Weight 70.1340	
Heat Capacity 298.15 K,	$C_p = 156.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 4U1	
Temperature range 13 to 298 K.		Evaluation B	
Entropy 298.15 K,	$S = 253.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀ (liq)	83CHA/HAL
Phase Changes		1-Pentene	
c/liq 104.71 K,	$\Delta H = 5359 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity 298.15 K,	$C_p = 154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 51.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 12 to 353 K.	
Molecular Weight 70.1340		Entropy 298.15 K,	$S = 262.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 1Y1&1U1		Phase Changes	
Evaluation A		c/liq 107.90 K,	$\Delta H = 5807 \text{ J}\cdot\text{mol}^{-1}$
A reevaluation of the original measured data from: 47TOD/OLI.			$\Delta S = 53.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀ (liq)	83CHA/HAL	Molecular Weight 70.1340	
2-Methyl-2-butene		Wiswesser Line Notation 4U1	
Heat Capacity 298.15 K,	$C_p = 152.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 13 to 301 K.		A reevaluation of the original measured data from:	
Entropy 298.15 K,	$S = 251.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	47TOD/OLI, 49SCH/SAG.	
Phase Changes		C₅H₁₀O (liq)	88BAG/GUR
c/liq 139.40 K,	$\Delta H = 7579 \text{ J}\cdot\text{mol}^{-1}$	2-Methyl-3-buten-2-ol	
	$\Delta S = 54.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.05 K,	$C_p = 241.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 70.1340		Temperature range 270 to 340 K.	
Wiswesser Line Notation 2UY1&1		Unsmoothed experimental datum.	
Evaluation A		Molecular Weight 86.1334	
A reevaluation of the original measured data from:		Wiswesser Line Notation 1XQ1U1	
47TOD/OLI, 30PAR/HUF.		Evaluation B	
C₅H₁₀ (liq)	83CHA/HAL	C₅H₁₀O (liq)	70HAR/HEA
2-Methyl-1-butene		3-Methyl-2-butanone; Isopropyl methyl ketone	
Heat Capacity 298.15 K,	$C_p = 157.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 180.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 293 K.		One temperature.	
Entropy 298.15 K,	$S = 254.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 86.1334	
Phase Changes		Wiswesser Line Notation 1Y1&V1	
c/liq 135.60 K,	$\Delta H = 7911 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 58.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O (liq)	70HAR/HEA
Molecular Weight 70.1340		3-Pentanone; Diethyl ketone	
Wiswesser Line Notation 2Y1&U1		Heat Capacity 298.15 K,	$C_p = 200.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		One temperature.	
A reevaluation of the original measured data from: 47TOD/OLI.		Molecular Weight 86.1334	
C₅H₁₀ (liq)	83CHA/HAL	Wiswesser Line Notation 2V2	
<i>cis</i> -2-Pentene		Evaluation B	
Heat Capacity 298.15 K,	$C_p = 151.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O (liq)	84GRO/BEN
Temperature range 13 to 295 K.		3-Pentanone; Diethyl ketone	
Entropy 298.15 K,	$S = 258.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 190.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		One temperature.	
c/liq 121.78 K,	$\Delta H = 7112 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 86.1334	
	$\Delta S = 58.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 2V2	
Molecular Weight 70.1340		Evaluation B	
Wiswesser Line Notation 3U2-C			
Evaluation A			
A reevaluation of the original measured data from: 47TOD/OLI.			

C₅H₁₀O (liq) 3-Pentanone; Diethylketone Heat Capacity 298.15 K, Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 86.1334 Wiswesser Line Notation 2V2 Evaluation B	88BAG/GUR $C_p = 196.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O (liq) 2,2-Dimethylpropanal; Pivalaldehyde; <i>tert</i> -Butylaldehyde Heat Capacity 298.43 K, Temperature range 29 to 298 K. Value is unsmoothed experimental datum. Phase Changes c,III/c,II 158.5 K, $\Delta H = 499 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 183.9 K, $\Delta H = 4809 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 26.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 272.1 K, $\Delta H = 2520 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 86.1334 Wiswesser Line Notation VHX1&1&1 Evaluation C _p (B), transitions (A).	88WHI/PER $C_p = 192.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O (liq) 2-Pentanone; <i>n</i> -Propyl methyl ketone Heat Capacity 298.15 K, One temperature. Molecular Weight 86.1334 Wiswesser Line Notation 3V1 Evaluation B	70HAR/HEA $C_p = 184.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₅H₁₀O (liq) Valeraldehyde; <i>n</i> -Pentanal; Valeral Entropy 298.15 K, Molecular Weight 86.1334 Wiswesser Line Notation VH4 Evaluation B	82DYA/VAS $S = 273.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O₂ (liq) Ethyl propionate; Ethyl propanoate Heat Capacity 298.15 K, One temperature. Molecular Weight 102.1328 Wiswesser Line Notation 2VO2 Evaluation B	86JIM/ROM $C_p = 200.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O (liq) Valeraldehyde; <i>n</i> -Pentanal; Valeral Heat Capacity 298.15 K, Temperature range 10 to 340 K. Entropy 298.15 K, Phase Changes c/liq 191.59 K Molecular Weight 86.1334 Wiswesser Line Notation VH4 Evaluation B	83KOR/DYA $C_p = 174.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 273.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O₂ (liq) Ethyl propionate; Ethyl propanoate Heat Capacity 298.33 K, Temperature range 294 to 349 K. Unsmoothed experimental datum. Molecular Weight 102.1328 Wiswesser Line Notation 2VO2 Evaluation B	87ZAB/HYN $C_p = 199.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O (liq) Valeral; <i>n</i> -Pentanal; Valeraldehyde Heat Capacity 298.15 K, Temperature range 10 to 340 K. Entropy 298.15 K, Phase Changes c/liq 191.59 K Molecular Weight 86.1334 Wiswesser Line Notation VH4 Evaluation A	84VAS/PET $C_p = 174.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 273.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O₂ (liq) Propyl ethanoate; <i>n</i> -Propyl acetate Heat Capacity 298.15 K, One temperature. Molecular Weight 102.1328 Wiswesser Line Notation 30V1 Evaluation B	86JIM/ROM $C_p = 196.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O (liq) 2,2-Dimethylpropanal; Pivalaldehyde <i>tert</i> -Butylaldehyde Heat Capacity 298.15 K, Temperature range 50 to 350 K. Entropy 298.15 K, Phase Changes c,I/liq 274.15 K Second order transitions observed at 62.5, 69.0, 110.8, 162.5, and 183.3 K. Molecular Weight 86.1334 Wiswesser Line Notation VHX1&1&1 Evaluation C	83KOR/DYA $C_p = 185.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 262.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₀O₂ (liq) <i>n</i> -Butyl methanoate Heat Capacity 298.15 K, One temperature. Molecular Weight 102.1328 Wiswesser Line Notation 4OVH Evaluation B	86JIM/ROM $C_p = 200.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₅H₁₀O₃ (liq) 2-Methoxyethanol acetate Heat Capacity 298.15 K Temperature range 273.15 to 323.15 K $C_p \text{ }^\circ(\text{kJ kg}^{-1}\cdot\text{K}^{-1}) = 0.024460T - 4.667$ Molecular Weight 118.1322 Wiswesser Line Notation 1V0201 Evaluation D	83SAN/CIO $C_p = 310 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₅H₁₀O₅ (c) Xylose(D) Heat Capacity 303 K, Temperature range 300 to 315 K. Molecular Weight 150.1310 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ -A&BCE -B&D Evaluation B	81KAW/KUS $C_p = 184 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₅H₁₀O₅ (c) Arabinose(L) Heat Capacity 303 K, Temperature range 300 to 315 K. Molecular Weight 150.1310 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ -A&C -B&BDE Evaluation B	81KAW/KUS $C_p = 184 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁N (liq) Piperidine Heat Capacity 298.150 K, Temperature range 10 to 400 K. Entropy 298.150 K, Phase Changes c/liq 262.124 K, Molecular Weight 85.1486 Wiswesser Line Notation T6MTJ Evaluation A	88MES/TOD $C_p = 179.857 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.972 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14853.69 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O₅ (c) Arabinose(D) Heat Capacity 303 K, Temperature range 300 to 315 K. Molecular Weight 150.1310 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ -A&DE -B&BC Evaluation B	81KAW/KUS $C_p = 184 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁NO (liq) 2,2-Dimethylpropanamide Heat Capacity 298.150 K, One temperature; C_p given as $1.58 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/g 298.15 K, Molecular Weight 101.1480 Wiswesser Line Notation ZVX1&1 Evaluation A	89ABB/JIM $C_p = 159.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 86600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 290.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₀O₅ (c) Ribose(D) Heat Capacity 303 K, Temperature range 300 to 315 K. Molecular Weight 150.1310 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ =A&CDE -B&B Evaluation B	81KAW/KUS $C_p = 187 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁NO₂ (c) Norvaline (L); α -Aminovaleric acid (L) Phase Changes c,II/c,I 273 K, Molecular Weight 117.1474 Wiswesser Line Notation QVYZ3 -L Evaluation B	84GRU/BOU $\Delta H = 40 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₁N (liq) 3-Methylpyrrolidine Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c/liq 170.402 K Molecular Weight 85.1486 Wiswesser Line Notation T5MTJ C1 Evaluation A	86STE/CHI $C_p = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 236.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁NO₂ (c) 5-Aminopentanoic acid Heat Capacity 298 K, One temperature. Molecular Weight 117.1474 Wiswesser Line Notation Z4VQ Evaluation B	83SKO/SAB $C_p = 163.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₁N (liq) Piperidine Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Phase Changes c/liq 262.124 K Molecular Weight 85.1486 Wiswesser Line Notation T6MTJ Evaluation A	86STE/CHI $C_p = 179.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁NO₂S (c) Methionine (L) Phase Changes c,III/c,II 307 K, c,II/c,I 393 K, Molecular Weight 149.2074 Wiswesser Line Notation QVYZ2S1 -L Evaluation B	84GRU/BOU $\Delta H = 1980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 150 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₁N (liq) Piperidine Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Phase Changes c/liq 262.124 K, Molecular Weight 85.1486 Wiswesser Line Notation T6MTJ Evaluation A	87MES/TOD $C_p = 179.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14847.9 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₁NO₂S (c) Methionine (DL) Phase Changes c,III/c,II 326 K, c,II/c,I 380 K Molecular Weight 149.2074 Wiswesser Line Notation QVYZ2S1 Evaluation B	84GRU/BOU $\Delta H = 820 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₁N (liq) Piperidine Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Phase Changes c/liq 262.124 K, Molecular Weight 85.1486 Wiswesser Line Notation T6MTJ Evaluation A	87DEL/FER $C_p = 179.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14847.9 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₅H₁₂N₂O (c) 1,3-Diethylurea Phase Changes c,II/c,I 339.4 K, c/liq 383.4 K, Molecular Weight 116.1626 Wiswesser Line Notation 2MVM2 Evaluation A	87DEL/FER $\Delta H = 1870 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12460 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 32.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₅H₁₂N₂O (c)	87DEL/FER	C₅H₁₂O (liq)	75FEN/HAR
Butylurea; Monobutylurea		2-Oxahehexane; Methyl <i>n</i> -butyl ether	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 193.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II	313.1 K,	One temperature.	
c,II/c,I	344.9 K,	Molecular Weight 88.1492	
c/liq	369.3 K,	Wiswesser Line Notation 4O1	
	$\Delta H = 7020 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta H = 880 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta H = 14550 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 39.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 116.1626			
Wiswesser Line Notation ZVM4			
Evaluation A			
C₅H₁₂N₂O (c)	87DEL/FER	C₅H₁₂O (liq)	82VIL/CAS
<i>tert</i> -Butylurea; Mono- <i>tert</i> -butylurea		Methyl <i>n</i> -butyl ether; 2-Oxahehexane	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 192.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	449.8 K,	One temperature.	
	$\Delta H = 33130 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 88.1492	
	$\Delta S = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 4O1	
Molecular Weight 116.1626		Evaluation B	
Wiswesser Line Notation ZVMX			
Evaluation A			
C₅H₁₂N₂O (c)	86KRA/KOZ	C₅H₁₂O (liq)	76SKO/SUU
N,N-Diethylurea; 1,1-Diethylurea		1-Pentanol; <i>n</i> -Amyl alcohol; <i>n</i> -Pentyl alcohol	
Heat Capacity 300 K,	$C_p = 185.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 208.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 140–310 K.		One temperature.	
Phase Changes		Molecular Weight 88.1492	
c,II/c,I	195–225 K,	Wiswesser Line Notation Q5	
	$\Delta H = 2000 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 9.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Reversible transition.			
c,I/liq	384.43 K,	C₅H₁₂O (liq)	83DAP/DEL
	$\Delta H = 16100 \text{ J}\cdot\text{mol}^{-1}$	1-Pentanol; <i>n</i> -Amyl alcohol; <i>n</i> -Pentyl alcohol	
	$\Delta S = 41.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 207.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta H = 96800 \text{ J}\cdot\text{mol}^{-1}$	Data given at 288 and 298 K.	
	$\Delta S = 296.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 88.1492	
Molecular Weight 116.1626		Wiswesser Line Notation Q5	
Wiswesser Line Notation ZVN2&2		Evaluation B	
Evaluation B			
C₅H₁₂N₂O (c)	87DEL/FER	C₅H₁₂O (liq)	84ZEG/SOM
N,N-Diethylurea; 1,1-Diethylurea		1-Pentanol; <i>n</i> -Amyl alcohol; <i>n</i> -Pentyl alcohol	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 208.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	342.3 K,	Molecular Weight 88.1492	
	$\Delta H = 16780 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation Q5	
	$\Delta S = 49.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 116.1626			
Wiswesser Line Notation ZVN2&2			
Evaluation A			
C₅H₁₂O (liq)	75FEN/HAR	C₅H₁₂O (liq)	86TAN/TOY
3,3-Dimethyl-2-oxabutane; Methyl <i>tert</i> -butyl ether		1-Pentanol; <i>n</i> -Amyl alcohol; <i>n</i> -Pentyl alcohol	
Heat Capacity 298.15 K,	$C_p = 187.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 208.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		One temperature.	
Molecular Weight 88.1492		Molecular Weight 88.1492	
Wiswesser Line Notation 1X1&1&O1		Wiswesser Line Notation Q5	
Evaluation B		Evaluation A	
C₅H₁₂O (liq)	75FEN/HAR	C₅H₁₂O (liq)	83DAP/DEL
3-Oxahehexane; Ethyl <i>n</i> -propyl ether		2-Methyl-2-butanol; <i>tert</i> -Pentanol;	
Heat Capacity 298.15 K,	$C_p = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	<i>tert</i> -Pentyl alcohol	
One temperature.		Heat Capacity 298.15 K,	$C_p = 247.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 88.1492		Data given at 288 and 298 K.	
Wiswesser Line Notation 3O2		Molecular Weight 88.1492	
Evaluation B		Wiswesser Line Notation QX1&1&2	
		Evaluation B	
C₅H₁₂O (liq)	75FEN/HAR	C₅H₁₂O (liq)	88PIE/SOM
3-Oxahehexane; Ethyl <i>n</i> -propyl ether		2-Methyl-2-butanol; <i>tert</i> -Pentanol;	
Heat Capacity 298.15 K,	$C_p = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	<i>tert</i> -Pentyl alcohol	
One temperature.		Heat Capacity 298.15 K,	$C_p = 247.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 88.1492		One temperature.	
Wiswesser Line Notation 3O2		Molecular Weight 88.1492	
Evaluation B		Wiswesser Line Notation QX1&1&2	
		Evaluation B	

C₅H₁₂O₂ (liq)	88BAG/GUR	(C₅H₁₂Si)_n (gls)	75RAB/LEB
2,2-Dimethoxypropane		Polyvinyltrimethylsilane	
Heat Capacity 298.15 K,	$C_p = 217.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 179.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 270 to 340 K.		Temperature range 50 to 300 K.	
Unsmoothed experimental datum.		Entropy 300 K,	$S = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 104.1486		Molecular Weight 100.2353	
Wiswesser Line Notation IOXO1		Wiswesser Line Notation /*1Y*-SI-1&1&1/	
Evaluation B		Evaluation A	
C₅H₁₂O₄ (c)	50HOS/NAG	(C₅H₁₂Si)_n (c)	81LEB/LEB
2,2-Bis(hydroxymethyl)-1,3-dihydroxypropane;		Polyvinyltrimethylsilane	
Pentaerythritol		Heat Capacity 298.15 K,	$C_p = 166.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Temperature range 5 to 330 K.	
c,II/c,I 457 K,	$\Delta H = 35146 \text{ J}\cdot\text{mol}^{-1}$	Entropy 298.15 K,	$S = 189.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 76.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 100.2353	
c,I/liq 529 K,	$\Delta H = 5439 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation /*1Y*-SI-1&1&1/	
	$\Delta S = 10.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 136.1474			
Wiswesser Line Notation Q1X1Q1Q1Q			
Evaluation B			
C₅H₁₂O₄ (c)	89ZHA/YAN	C₅H₁₃N (liq)	01KAH
2,2-Bis(hydroxymethyl)-1,3-dihydroxypropane; Pentaerythritol		1-Aminopentane; <i>n</i> -Amylamine; <i>n</i> -Pentylamine	
Heat Capacity 298.98 K	$188.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity	$C_p = 223.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 277 to 510 K		Temperature range 294.15 to 403.15 K.	
Phase Changes		Heat capacity is an average value over the temperature range.	
c,II/c,I 461.60 K	$\Delta H = 41380 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 87.1644	
	$\Delta S = 89.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation Z5	
Molecular Weight 136.1474		Evaluation D	
Wiswesser Line Notation Q1X1Q1Q1Q			
Evaluation A			
C₅H₁₂Si (liq)	75RAB/LEB	C₅H₁₃NO (liq)	81LEB/RYA
Vinyltrimethylsilane		Methylethylethanolamine	
Heat Capacity 300 K,	$C_p = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity	$C_p = 256.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 50 to 300 K.		Temperature range 298 to 343 K.	
Entropy 300 K,	$S = 313.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat capacity is an average value over the temperature range.	
Phase Changes		Molecular Weight 103.1638	
c/liq 141.65 K,	$\Delta H = 7657 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation Q2N2&1	
	$\Delta S = 54.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 100.2353			
Wiswesser Line Notation 1U1-SI-1&1&1			
Evaluation A			
C₅H₁₂Si (liq)	81LEB/LEB	C₅H₁₄N₂ (liq)	84LEB/GUT
Vinyltrimethylsilane		N,N-Dimethyl-1,3-propanediamine	
Heat Capacity 298.15 K,	$C_p = 198.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 248.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 330 K.		Temperature range 295 to 360 K.	
Entropy 298.15 K,	$S = 312.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		liq/g 406 K	
c/liq 141.57 K,	$\Delta H = 7660 \text{ J}\cdot\text{mol}^{-1}$	P = 9.972 × 10 ⁴ kPa.	
	$\Delta S = 54.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 102.1790	
Molecular Weight 100.2353		Wiswesser Line Notation Z3N1&1	
Wiswesser Line Notation 1U1-SI-1&1&1		Evaluation B	
Evaluation A		ΔH vaporization = 44100 J·mol ⁻¹ , temperature range =	
		290 to 317 K.	
C₅H₁₂Si (c)	75GUS/KAR	C₅H₁₄N₂O (liq)	88KOZ/KRA
1,1-Dimethyl-1-silacyclobutane		Tetramethylurea	
Heat Capacity 298.15 K,	$C_p = 197.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 320 K,	$C_p = 241.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 300 K.		Temperature range 160 to 425 K. Equation only.	
Data given graphically.		$C_p(c) = 60.22 + 0.520 T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (160 to 240K);	
Entropy 298.15 K,	$S = 279.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(\text{liq}) = 153.30 + 0.2748 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (320 to 425K).	
Phase Changes		Phase Changes	
c/liq 155.52 K,	$\Delta H = 6761 \text{ J}\cdot\text{mol}^{-1}$	c/liq 272.2 K,	$\Delta H = 13400 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 43.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 49.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
liq/g 355.91 K,	$\Delta H = 32141 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 118.1784	
	$\Delta S = 90.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 1M1&VM1&1	
Molecular Weight 100.2353		Evaluation A	
Wiswesser Line Notation T4-SI-TJ A1 A1			
Evaluation B			

C₅H₁₅N₃ (liq)	81LEB/RYA	C₆D₁₇N₃O₁₀S (c)	75CAM/GON
Dimethylaminopropylendiamine		Triglycine sulfate, deuterated	
Heat Capacity 295.96 K,	$C_p = 249.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 390 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 296 to 359 K.		Temperature range 100 to 400 K.	
Molecular Weight 117.1936		Data given graphically; C_p estimated from graph.	
Wiswesser Line Notation Z1Y1ZN1&1		Phase Changes	
Evaluation B		c,II/c,I 331.75 K,	$\Delta H = 571 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₅H₁₆Cl₄Mn (c)	88CHH/ABE	Molecular Weight 338.7013	
Pentylidiamine manganese tetrachloride		Wiswesser Line Notation Z1VQ 3 &WSQQ &1/H-2 2	
Heat Capacity 298.15 K,	$C_p = 424.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	&1/H-2 2 &4/H-2 1 &11/H-2 1 &12/H-2 1	
Temperature range 10 to 330 K.		Evaluation D(C_p); B(Phase changes)	
Entropy 298.15 K,	$S = 407.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Degree of deuteration not indicated, assumed 90%.	
Phase Changes		C₆D₁₇N₃O₁₀S (c)	79LOI/OSB
c,II/c,I 299.6 K,	$\Delta H = 2240 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Triglycine sulfate, deuterated	
Molecular Weight 272.9314		Heat Capacity 300 K,	$C_p = 438 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation Z5Z &GH 2 .MN G2		Temperature range 294 to 340 K.	
C₅Br₂Cl₃F₉ (liq)	88SVO/VES	$C_p = 0.309 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	
1,6-Dibromo-2,3,5-trichlorononafluorohexane		90% deuterated.	
Heat Capacity 298.16 K,	$C_p = 418.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 338.7013	
Temperature range 298.15 to 318.15 K.		Wiswesser Line Notation Z1VQ 3 &WSQQ &1/H-2 2	
$C_p (\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 335.6 + 0.278 (T/\text{K})(298-318 \text{ K})$.		&1/H-2 2 &4/H-2 1 &11/H-2 1 &12/H-2 1	
Molecular Weight 509.2186		Evaluation B	
Wiswesser Line Notation FXFEXGFXGFXFFXGFXFFE		C₆D₁₇N₃O₁₀S (c)	81LOI/KOS
Evaluation A		Triglycine sulfate, deuterated	
C₆D₁₇BeF₄N₃O₆ (c)	79LOI/OSB	Heat Capacity 308 K,	$C_p = 468 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Triglycine fluoroberyllate, deuterated		One temperature.	
Heat Capacity 300 K,	$C_p = 447.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(35^\circ\text{C}) = 0.33 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.	
Temperature range 294 to 340 K.		Molecular Weight 338.7013	
$C_p = 0.326 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$, 92% deuterated.		Wiswesser Line Notation Z1VQ 3 &WSQQ &1/H-2 2	
Phase Changes		&1/H-2 2 &4/H-2 1 &11/H-2 1 &12/H-2 1	
c,II/c,I	$\Delta H = 1153 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
No temperature given.		90% deuterated.	
Molecular Weight 327.9862		C₆F₆ (liq)	82GOR/SIM
Wiswesser Line Notation Z1VQ 3 &H2 .BE F4 &1/H-2 2		Hexafluorobenzene; Perfluorobenzene	
&2/H-2 2 &4/H-2 1 &9/H-2 2		Heat Capacity 298.76 K,	$C_p = 221.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Temperature range 284 to 350 K.	
C₆D₁₇BeF₄N₃O₆ (c)	81LOI/KOS	Value is unsmoothed experimental datum.	
Triglycine fluoroberyllate, deuterated		$C_p(298.76 \text{ K})$ given as $1.1892 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.	
Heat Capacity 308 K,	$C_p = 448 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 186.0564	
One temperature.		Wiswesser Line Notation FR BF CD DF EF FF	
$C_p(35^\circ\text{C}) = 0.33 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.		Evaluation B	
Molecular Weight 324.2166		$C_p(\text{liq}) (\text{kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 1.19132 - 1.0716 \times 10^{-3}$	
Wiswesser Line Notation Z1VQ 3 &H2 .BE F4 &1/H-2 2		$T + 3.59 \times 10^{-6} T^2 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ (325 to 728 K).	
&2/H-2 2 &4/H-2 1 &9/H-2 2		C₆F₆ (liq)	82GOR/SIM2
Evaluation B		Hexafluorobenzene; Perfluorobenzene	
70% deuterated.		Heat Capacity 298.15 K,	$C_p = 221.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆D₁₇BeF₄N₃O₆ (c)	81LOI/KOS2	Temperature range 280 to 680 K.	
Triglycine fluoroberyllate, deuterated		Data calculated from the equation:	
Heat Capacity 298 K,	$C_p = 430 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(\text{liq}) (\text{kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 1.19132 - 1.0716 \times 10^{-3}T$	
Temperature range 294 to 375 K.		$+ 3.59 \times 10^{-6} T^2$.	
C_p given at "room temperature" as $0.317 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Molecular Weight 186.0564	
Data given graphically.		Wiswesser Line Notation FR BF CF DF EF FF	
Phase Changes		Evaluation A	
c,II/c,I 345 K,	$\Delta H = 813 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆F₁₄ (liq)	83CAM/DIA
Ferroelectric transition.		<i>n</i> -Perfluorohexane	
Molecular Weight 324.2166		Heat Capacity 273 K,	$C_p = 240.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation Z1VQ 3 &H2 .BE F4 &1/H-2 2		Data from 82CAM/REY.	
&2/H-2 2 &4/H-2 1 &9/H-2 2		Molecular Weight 338.0436	
Evaluation C		Wiswesser Line Notation FXFFXFFXFFXFFXFFXFFF	
Sample is 70% deuterated.		Evaluation C	
		C_p given as $248.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ at 273 K from Cochran, M.A. et al, J. Chem. Soc. Faraday Trans. 70, 1274 (1974).	

C₆F₁₅N (liq) Perfluorotriethylamine Phase Changes c/liq 156.1 K, $\Delta H = 4650 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 29.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 371.0487 Wiswesser Line Notation FXFFXFF 3N Evaluation A	84GOL/KOL	C₆H₄BrCl (liq) 2-Chlorobromobenzene Heat Capacity 298.15 K, Temperature range 198 to 374 K. $C_p = 0.21497 + 0.0002348t \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. C_p value calculated from equation. Phase Changes c/liq 260.55 K, $\Delta H = 12368 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 191.4546 Wiswesser Line Notation GR BE Evaluation D	18NAR
C₆H₂Cl₄ (c) 1,2,4,5-Tetrachlorobenzene Phase Changes c,II/c,I 187.5 K, $\Delta H = 34 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 215.8938 Wiswesser Line Notation GR BG DG EG Evaluation C	82MAR	C₆H₄BrCl (liq) 3-Chlorobromobenzene Heat Capacity 298.15 K, Temperature range 197 to 375 K. $C_p = 0.221224 + 0.0002348t \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. C_p value calculated from equation. Phase Changes c/liq 251.95 K, $\Delta H = 12288 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 191.4546 Wiswesser Line Notation GR CE Evaluation D	18NAR
C₆H₃Br₃O (c) 2,4,6-Tribromophenol Heat Capacity 298.15 K, One temperature. C_p given as $0.52 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 330.8011 Wiswesser Line Notation QR BE DE FE Evaluation B	87ALL/FIN	C₆H₃Cl₃ (liq) 1,2,4-Trichlorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 181.4487 Wiswesser Line Notation GR BG DG Evaluation B	86WIL/LAI
C₆H₃Cl₄N (c) 2-Chloro-1-(trichloromethyl)pyridine Heat Capacity 297.13 K, Temperature range 78 to 322 K. Value is unsmoothed experimental datum. $C_p(c,70\text{to}330\text{K}) = 146.438 + 57.0749X - 1.31699X^2$ $+ 16.2918X^3 - 11.3899X^4 - 26.7611X^5 + 5.59976X^6$ $+ 21.3037X^7 \text{ (J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1})$. Phase Changes c/liq 337.242 K, $\Delta H = 20298.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 230.9084 Wiswesser Line Notation T6NJ BXGGG FG Evaluation B	87TAN/YEJ	C₆H₄BrCl (c) 4-Chlorobromobenzene Heat Capacity Temperature range 194 to 336 K. Phase Changes c/liq 337.75 K, $\Delta H = 18760 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 191.4546 Wiswesser Line Notation GR DE Evaluation D	18NAR
C₆H₃N₃O₇ (c) Picric acid; 2,4,6-Trinitrophenol Phase Changes c/liq 394.1 K, $\Delta H = 17100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 229.1056 Wiswesser Line Notation WNR BQ CNW ENW Evaluation B	79FAR/SHA	C₆H₄BrI (liq) 2-Bromoiodobenzene Heat Capacity 298.15 K, Temperature range 195 to 373 K. $C_p = 0.15285 + 0.0001332t$. C_p value calculated from equation. Phase Changes c/liq 275.25 K, $\Delta H = 14441 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 52.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 282.9061 Wiswesser Line Notation IR BE Evaluation D	18NAR
C₆H₃N₃O₈ (c) Styphnic acid; 2,4,6-Trinitroresorcinol Phase Changes c/liq 454.9 K, $\Delta H = 33500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 245.1050 Wiswesser Line Notation WNR BQ CNW DQ ENW Evaluation B	79FAR/SHA	C₆H₄BrI (liq) 3-Bromoiodobenzene Heat Capacity 298.15 K, Temperature range 198 to 373 K. $C_p = 0.15134 + 0.0001332t$. C_p value calculated from equation. Phase Changes c/liq 263.85 K, $\Delta H = 12192 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 46.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 282.9061 Wiswesser Line Notation IR CE Evaluation D	18NAR

C₆H₄BrI (c) 4-Bromiodobenzene Heat Capacity Temperature range 270 to 361 K. Phase Changes c/liq 363.25 K, $\Delta H = 19614 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 282.9061 Wiswesser Line Notation IR DE Evaluation D	18NAR	C₆H₄ClNO₂ (c) 4-Nitrochlorobenzene Heat Capacity Temperature range 298 to 353 K. Data given over temperature range. Molecular Weight 157.5561 Wiswesser Line Notation WNR DG Evaluation B	81LEB/RYA $C_p = 182.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Br₂ (liq) 1,2-Dibromobenzene Heat Capacity 298.15 K, Temperature range 200 to 375 K. $C_p = 0.17994 + 0.0002140t$. C_p value calculated from equation. Phase Changes c/liq 274.95 K, $\Delta H = 13587 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 49.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 235.9056 Wiswesser Line Notation ER BE Evaluation D	18NAR	C₆H₄ClNO₂ (c) 4-Nitrochlorobenzene Phase Changes c/liq 358 K, liq/g 518 K, $\Delta H = 18030 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 36900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 71.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 157.5561 Wiswesser Line Notation WNR DG Evaluation C	81VOR/BOR
C₆H₄Br₂ (liq) 1,3-Dibromobenzene Heat Capacity 298.15 K, Temperature range 197 to 375 K. $C_p = 0.17535 + 0.0002140t$. C_p value calculated from equation. Phase Changes c/liq 266.25 K, $\Delta H = 14225 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 53.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 235.9056 Wiswesser Line Notation ER CE Evaluation D	18NAR	C₆H₄Cl₂ (liq) 1,2-Dichlorobenzene; <i>o</i> -Dichlorobenzene Heat Capacity 298.15 K, Temperature range 197 to 375 K. $C_p = 0.27022 + 0.0003024 t \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. C_p value calculated from equation. Phase Changes c/liq 255.65 K, $\Delta H = 12922 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 147.0036 Wiswesser Line Notation GR BG Evaluation D	18NAR $C_p = 170.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Br₂ (c) 1,4-Dibromobenzene Heat Capacity Temperature range 194 to 353 K. Phase Changes c/liq 360.05 K, $\Delta H = 20530 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 57.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 235.9056 Wiswesser Line Notation ER DE Evaluation D	18NAR	C₆H₄Cl₂ (liq) 1,3-Dichlorobenzene; <i>m</i> -Dichlorobenzene Heat Capacity 298.15 K, Temperature range 197 to 377 K. $C_p = 0.27022 + 0.0003024 t \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. C_p value calculated from equation. Phase Changes c/liq 248.75 K, $\Delta H = 12590 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 147.0036 Wiswesser Line Notation GR CG Evaluation D	18NAR $C_p = 170.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Br₃N (c) 2,4,6-Tribromoaniline Heat Capacity 298.15 K, One temperature. C_p given as $0.55 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 329.8163 Wiswesser Line Notation ZR BE DE FE Evaluation B	87ALL/FIN	C₆H₄Cl₂ (c) 1,4-Dichlorobenzene; <i>p</i> -Dichlorobenzene Heat Capacity 298 K, Temperature range 194 to 372 K. Average specific heat over the temperature range 2.6 to 51.6 °C is $0.2400 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/liq 326.05 K, $\Delta H = 18144 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 147.0036 Wiswesser Line Notation GR DG Evaluation D	18NAR $C_p = 147.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄ClNO₂ (c) 1,2-Chloronitrobenzene Heat Capacity Temperature range 298 to 303 K. Data given over temperature range. Molecular Weight 157.5561 Wiswesser Line Notation WNR BG Evaluation B	81LEB/RYA	C₆H₄Cl₂ (c) 1,4-Dichlorobenzene; <i>p</i> -Dichlorobenzene Phase Changes c/liq 326.15 K, $\Delta H = 18050 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 147.0036 Wiswesser Line Notation GR DG Evaluation C	72BOO/HAU

C₆H₄Cl₂ (c,II) 1,4-Dichlorobenzene; <i>p</i> -Dichlorobenzene Heat Capacity Temperature range 18 to 322 K. Data given graphically. Phase Changes c,III/c,II 271.77 K, c,II/c,I 304.35 K, c,I/liq 326.14 K, Molecular Weight 147.0036 Wiswesser Line Notation GR DG Evaluation A See also 76DWO/FIG.	75DWO/FIG $\Delta H = 1256 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 214.5 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.705 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18187 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄Cl₂O (c) 2,6-Dichlorophenol Phase Changes c/liq 340.0 K, Molecular Weight 163.0030 Wiswesser Line Notation QR BG FG Evaluation A	82POE/FAN $\Delta H = 22141 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Cl₂ (c) 1,4-Dichlorobenzene; <i>p</i> -Dichlorobenzene Heat Capacity 180 K, Temperature range 30 to 180 K. Data given graphically, and estimated from graph. Molecular Weight 147.0036 Wiswesser Line Notation GR DG Evaluation A	88MAR/MON2 $C_p = 98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄Cl₂O (c) 3,4-Dichlorophenol Phase Changes c/liq 341.0 K, Molecular Weight 163.0030 Wiswesser Line Notation QR CG DG Evaluation A	82POE/FAN $\Delta H = 20927 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Cl₂O (c) 2,3-Dichlorophenol Phase Changes c/liq 330.0 K, Molecular Weight 163.0030 Wiswesser Line Notation QR BG CG Evaluation A	82POE/FAN $\Delta H = 21363 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄F₂ (liq) 1,2-Difluorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 114.0944 Wiswesser Line Notation FR BF Evaluation B	82POE/FAN $\Delta H = 20509 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ 62GOO/LAC $C_p = 159.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Cl₂O (c) 2,4-Dichlorophenol Phase Changes c/liq 323 K, liq/g 491 K, Molecular Weight 163.0030 Wiswesser Line Notation QR BG DG Evaluation C	81VOR/BOR $\Delta H = 28410 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 88.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 36780 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄F₂ (liq) 1,3-Difluorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 114.0944 Wiswesser Line Notation FR CF Evaluation B	62GOO/LAC $C_p = 157.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Cl₂O (c) 2,4-Dichlorophenol Phase Changes c/liq 318.0 K, Molecular Weight 163.0030 Wiswesser Line Notation QR BG DG Evaluation A	82POE/FAN $\Delta H = 20090 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄F₂ (liq) 1,4-Difluorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 114.0944 Wiswesser Line Notation FR DF Evaluation B	62GOO/LAC $C_p = 157.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄Cl₂O (c) 2,5-Dichlorophenol Phase Changes c/liq 331.0 K, Molecular Weight 163.0030 Wiswesser Line Notation QR BG EG Evaluation A	82POE/FAN $\Delta H = 22434 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 67.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₄I₂ (liq) 1,2-Diiodobenzene Heat Capacity 298.15 K, Temperature range 196 to 373 K. $C_p = 0.1357 + 0.0000776t$. C_p value calculated from equation. Phase Changes c/liq 296.55 K, Molecular Weight 329.9066 Wiswesser Line Notation IR BI Evaluation D	18NAR $C_p = 190.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14079 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₆H₄I₂ (c) 1,3-Diiodobenzene Heat Capacity Temperature range 196 to 306 K. Phase Changes c/liq 307.35 K, Molecular Weight 329.9066 Wiswesser Line Notation IR CI Evaluation D	18NAR	C₆H₄N₂O₅ (c) 2,6-Dinitrophenol Phase Changes c/liq 336.0 K, Molecular Weight 184.1080 Wiswesser Line Notation WNR BQ CNW Evaluation A	82POE/FAN $\Delta H = 19577 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄I₂ (c) 1,4-Diiodobenzene Heat Capacity Temperature range 198 to 400 K. Phase Changes c/liq 402.15 K, Molecular Weight 329.9066 Wiswesser Line Notation IR DI Evaluation D	18NAR	C₆H₄N₂O₅ (c) 2,4-Dinitrophenol Phase Changes c/liq 388.0 K, Molecular Weight 184.1080 Wiswesser Line Notation WNR CNW DQ Evaluation A	82POE/FAN $\Delta H = 24174 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄N₂O₄ (c) 1,2-Dinitrobenzene Phase Changes c/liq 390.05 K, Molecular Weight 168.1086 Wiswesser Line Notation WNR BNW Evaluation C	72BOO/HAU	C₆H₄N₂O₅ (c) 3,5-Dinitrophenol Phase Changes c/liq 399.1 K Molecular Weight 184.1080 Wiswesser Line Notation WNR CNW EQ Evaluation A	82POE/FAN $\Delta H = 22750 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄N₂O₄ (c) 1,3-Dinitrobenzene Phase Changes c/liq 363.23 K, Molecular Weight 168.1086 Wiswesser Line Notation WNR CNW Evaluation C	72BOO/HAU	C₆H₄N₂O₅ (c) 2,5-Dinitrophenol Phase Changes c/liq 381.0 K, Molecular Weight 184.1080 Wiswesser Line Notation WNR CQ DNW Evaluation A	82POE/FAN $\Delta H = 23730 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄N₂O₄ (c) 1,4-Dinitrobenzene Phase Changes c/liq 446.65 K, Molecular Weight 168.1086 Wiswesser Line Notation WNR DNW Evaluation C	72BOO/HAU	C₆H₅Br (liq) Bromobenzene Heat Capacity 303.15 K, Temperature range 303.15, 313.15 K. Molecular Weight 157.0095 Wiswesser Line Notation ER Evaluation B	86RED $C_p = 155.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄N₂O₅ (c) 2,3-Dinitrophenol Phase Changes c/liq 417.0 K, Molecular Weight 184.1080 Wiswesser Line Notation WNR BNW CQ Evaluation A	82POE/FAN	C₆H₅BrO (c) 4-Bromophenol Phase Changes c/liq 336 K, Molecular Weight 173.0091 Wiswesser Line Notation QR DE Evaluation C	1889EYK $\Delta H = 28100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16573 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 49.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₄N₂O₅ (c) 3,4-Dinitrophenol Phase Changes c/liq 407.0 K, Molecular Weight 184.1080 Wiswesser Line Notation WNR BNW DQ Evaluation A	82POE/FAN	C₆H₅Cl (liq) Chlorobenzene Heat Capacity 303.15 K, Temperature range 303.15, 313.15 K. Molecular Weight 112.5585 Wiswesser Line Notation GR Evaluation B	86RED $C_p = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₆H₅Cl (liq) Chlorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 112.5585 Wiswesser Line Notation GR Evaluation A	88PER/AIC $C_p = 153.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₆H₅ClO (liq) 2-Chlorophenol Phase Changes c/liq 283.0 K, $\Delta H = 12523 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 128.5579 Wiswesser Line Notation QR BG Evaluation A	82POE/FAN	C₆H₅NO₃ (c) 3-Nitrophenol Phase Changes c/liq 369.95 K, $\Delta H = 21300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 57.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 139.1104 Wiswesser Line Notation WNR CQ Evaluation C	72BOO/HAU
C₆H₅ClO (c) 3-Chlorophenol Phase Changes c/liq 305.8 K, $\Delta H = 14905 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 128.5579 Wiswesser Line Notation QR CG Evaluation A	82POE/FAN	C₆H₅NO₃ (c) 3-Nitrophenol Phase Changes c/liq 370.0 K, $\Delta H = 19196 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 51.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 139.1104 Wiswesser Line Notation WNR CQ Evaluation A	82POE/FAN
C₆H₅ClO (c) 4-Chlorophenol Phase Changes c/liq 316.0 K, $\Delta H = 14067 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 128.5579 Wiswesser Line Notation QR DG Evaluation A	82POE/FAN	C₆H₅NO₃ (c) 4-Nitrophenol Heat Capacity 283 K, Temperature range 273 to 293 K. Value given as $C_p = 0.248 \text{ cal}\cdot\text{g}^{-1}$ over temperature range 0 to 20 °C. Phase Changes c/liq 387 K, $\Delta H = 24271 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 139.1104 Wiswesser Line Notation WNR DQ Evaluation C	41CAM/CAM $C_p = 144 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₅Cl₃Ge (c) Phenyltrichlorogermene Entropy 298.15 K, Deposited in VINITI, No 540-69, 11 March 1969. Molecular Weight 256.0545 Wiswesser Line Notation G-GE-GGR Evaluation A	69NUR/KOS	$S = 339.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
C₆H₅Cl₃Sn (c) Phenyltrichlorostannane Entropy 298.15 K, Deposited in VINITI, No 540-69, 11 March 1969. Molecular Weight 302.1545 Wiswesser Line Notation G-SN-GGR Evaluation A	69NUR/KOS	$S = 347.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
C₆H₅F (liq) Fluorobenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 96.1039 Wiswesser Line Notation FR Evaluation B	84ROU/GRO	$C_p = 146.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
C₆H₅NO₂ (liq) Nitrobenzene Heat Capacity 303.15 K, Temperature range 303.15, 313.15 K. Molecular Weight 123.1110 Wiswesser Line Notation WNR Evaluation B	86RED	$C_p = 177.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
C₆H₅NO₃ (c) 2-Nitrophenol Phase Changes c/liq 318.0 K, $\Delta H = 17446 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 139.1104 Wiswesser Line Notation WNR BQ Evaluation A	82POE/FAN		
C₆H₅NO₃ (c) 4-Nitrophenol Phase Changes c/liq 385.15 K, $\Delta H = 30118 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 139.1104 Wiswesser Line Notation WNR DQ Evaluation A	82POE/FAN		
C₆H₅N₃ (c) Benzotriazole Heat Capacity 298.15 K, One temperature. Molecular Weight 119.1256 Wiswesser Line Notation T56 BMNNJ Evaluation A	89JIM/ROU	$C_p = 178.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	

C₆H₆ (c) 2,4-Hexadiyne Heat Capacity 298.15 K, Temperature range 3 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 117.9 K, Molecular Weight 78.1134 Wiswesser Line Notation 2UU2UU2 Evaluation A	82BAT/MRA $C_p = 133.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 178.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 996.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆ (liq) Benzene Heat Capacity 298.15 K, Temperature range 283.78 to 348.47 K. $C_p = 1.3943 - 5.857 \times 10^{-4}T + 5.89 \times 10^{-6}T^2 \text{ kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$. C_p value calculated from equation. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation B	83GOR/SIM $C_p = 136.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Heat Capacity 300 K, Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation B	65FIN/GRU $C_p = 135.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆ (liq) Benzene Heat Capacity 303.15 K, Temperature range 303.15, 313.15 K. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation B	86RED $C_p = 137.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Heat Capacity 298 K, One temperature. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation C	69SUB/KHA $C_p = 135.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆ (liq) Benzene Heat Capacity 298.15 K, One temperature. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation A	88SHI/OGA $C_p = 134.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Heat Capacity 298.15 K, Temperature range 298.15 to 323.15 K. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation B	74RAJ/SUB $C_p = 135.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆N₂O₂ (c) 3-Nitroaniline Phase Changes c/liq 384.95 K, Molecular Weight 138.1256 Wiswesser Line Notation ZR CNW Evaluation C	72BOO/HAU $\Delta H = 23600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Heat Capacity 298.15 K, Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation A Data from 76FOR/BEN.	76FOR/BEN2 $C_p = 135.760 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆N₂O₂ (c) 3-Nitroaniline Heat Capacity 298.15 K, One temperature. Molecular Weight 138.1256 Wiswesser Line Notation ZR CNW Evaluation B	83NIS/SAK $C_p = 158.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.15 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
C₆H₆ (liq) Benzene Heat Capacity 298.15 K, Temperature range 298 to 318 K. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation B	77VES/SVO $C_p = 135.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆N₂O₂ (c) 4-Nitroaniline Phase Changes c/liq 420.65 K, Molecular Weight 138.1256 Wiswesser Line Notation ZR DNW Evaluation C	72BOO/HAU $\Delta H = 21150 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Phase Changes c/liq 279.1 K, Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation C	79SMI $\Delta H = 9300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₆N₂O₂ (c) 4-Nitroaniline Heat Capacity 298.15 K, One temperature. C_p given as $1.116 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 138.1256 Wiswesser Line Notation ZR DNW Evaluation B	83NIS/SAK $C_p = 154.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₆ (liq) Benzene Heat Capacity Temperature range 280 to 680 K. Data at atmospheric pressure given by the equation: $C_p = 1.5194 - 1.299 \times 10^{-3}T + 6.927 \times 10^{-6}T^2 \text{ kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 78.1134 Wiswesser Line Notation R Evaluation A	82GOR/SIM2		

C₆H₆O (c)	1889EYK	C₆H₇N (liq)	01KAH
Phenol		2-Methylpyridine; α -Picoline	
Phase Changes		Heat Capacity	$C_p = 169.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	312.7 K,	Temperature range 294.15 to 403.15 K.	
		Heat capacity is an average value over the temperature range.	
Molecular Weight	94.1128	Molecular Weight	93.1280
Wiswesser Line Notation	QR	Wiswesser Line Notation	T6NJ B1
Evaluation	C	Evaluation	D
C₆H₆O (liq)	03MAG	C₆H₇N (liq)	86STE/CHI
Phenol		4-Methylpyridine	
Heat Capacity	298 K,	Heat Capacity	298.15 K,
One temperature.		Temperature range 10 to 410 K.	
C_p given as $0.561 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	$C_p = 220.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy	298.15 K,
Molecular Weight	94.1128	Phase Changes	
Wiswesser Line Notation	QR	c,II/c,I	255.010 K
Evaluation	D	c,I/liq	276.818 K
		Molecular Weight	93.1280
		Wiswesser Line Notation	T6NJ D1
		Evaluation	A
C₆H₆O₂ (c)	03MAG	C₆H₇N (liq)	87MES/TOD
1,2-Dihydroxybenzene; Pyrocatechin; Catechol		4-Methylpyridine	
Heat Capacity	298 K,	Heat Capacity	298.15 K,
One temperature.		Temperature range 10 to 410 K.	
C_p given as $0.313 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	$C_p = 144.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy	298.15 K,
Molecular Weight	110.1122	Phase Changes	
Wiswesser Line Notation	QR BQ	c,II/c,I	255.010 K,
Evaluation	D	c,I/liq	276.817 K,
		Molecular Weight	93.1280
		Wiswesser Line Notation	T6NJ D1
		Evaluation	A
C₆H₆O₂ (c)	03MAG	C₆H₇N (liq)	88MES/TOD
1,3-Dihydroxybenzene; Resorcin; Resorcinol		4-Methylpyridine	
Heat Capacity	298 K,	Heat Capacity	298.150 K,
One temperature.		Temperature range 10 to 400 K.	
C_p given as $0.266 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	$C_p = 122.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy	298.150 K,
Molecular Weight	110.1122	Phase Changes	
Wiswesser Line Notation	QR CQ	c,II/c,I	255.00 K,
Evaluation	D	c,I/liq	276.818 K,
		Molecular Weight	93.1280
		Wiswesser Line Notation	T6NJ D1
		Evaluation	A
C₆H₆O₂ (c)	82VII/GAM	C₆H₇N (liq)	87LES/LIC
1,3-Dihydroxybenzene; Resorcin; Resorcinol		Aniline	
Phase Changes		Heat Capacity	298 K,
c/liq	381 K,	Temperature range 200 to 300 K.	
		Phase Changes	
		c/liq	267 K
Molecular Weight	110.1122	Molecular Weight	93.1280
Wiswesser Line Notation	QR CQ	Wiswesser Line Notation	ZR
Evaluation	B	Evaluation	B
C₆H₆O₂ (c)	87EBI/ASK	C₆H₇N-HBr (c)	78KOJ
1,3-Dihydroxybenzene; Resorcin; Resorcinol		Aniline hydrobromide	
Phase Changes		Heat Capacity	
c,II/c,I	369 K,	Temperature range 200 to 320 K.	
		Data given graphically.	
α - β phase transition.		Phase Changes	
c,I/liq	382.7 K,	c,II/c,I	230-300 K,
Fusion of β -resorcinol.		Molecular Weight	174.0399
Molecular Weight	110.1122	Wiswesser Line Notation	ZR &EH
Wiswesser Line Notation	QR CQ	Evaluation	B
Evaluation	A		
C₆H₆O₂ (c)	03MAG		
1,4-Dihydroxybenzene; Hydroquinone			
Heat Capacity	298 K,		
One temperature.			
C_p given as $0.258 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	$C_p = 118.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight	110.1122		
Wiswesser Line Notation	QR DQ		
Evaluation	D		

C₆H₈N₂ (liq) Phenylhydrazine Heat Capacity 299.45 K, Temperature range 293 to 358 K. Molecular Weight 108.1426 Wiswesser Line Notation ZMR Evaluation B	81LEB/RYA $C_p = 217.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₈O₄ (c) Lactide(DL) Heat Capacity 298.15 K, Temperature range 8 to 330 K. Entropy 298.15 K, Molecular Weight 144.1268 Wiswesser Line Notation T6OV DOVTJ C1 F1 Evaluation A	82LEB/KUL $C_p = 184.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 213.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₈N₂ (c) 1,3-Phenylenediamine Heat Capacity 298.15 K, Temperature range 13 to 500 K. Entropy 298.15 K, Phase Changes c/liq 339.1 K, Molecular Weight 108.1426 Wiswesser Line Notation ZR CZ Evaluation A	84RAB/KAR $C_p = 159.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 154.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 15570 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₈O₇ (c) Citric acid Heat Capacity 300 K, Temperature range 90 to 330 K. Entropy 300 K, Molecular Weight 192.1250 Wiswesser Line Notation QV1XQVQ1VQ Evaluation B(C _p), C(S)	82DEK/VAN $C_p = 226.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 252.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₈N₂ (liq) 1,3-Phenylenediamine Heat Capacity 298 K, Temperature range 220 to 400 K. Phase Changes c/liq 337 K Molecular Weight 108.1426 Wiswesser Line Notation ZR CZ Evaluation B	87LES/LIC $C_p = 153.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₈ClO₂ (liq) Chloroethyl methacrylate Phase Changes c/liq 235.1 K, Molecular Weight 148.5889 Wiswesser Line Notation G2OVY1&U1 Evaluation A	85KAR/ABD2 $\Delta H = 17001 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 72.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₈N₂O₂ (c) 1,3-Dimethyluracil Phase Changes c/liq 392.5 K, Molecular Weight 140.1414 Wiswesser Line Notation T6NVNVJ A1 C1 Evaluation B	84ZIE/ZIE $\Delta H = 23100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₉Cu (c) 1-Hexynylcopper; Copper butylacetylenide Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Molecular Weight 144.6831 Wiswesser Line Notation 5UU1-CU- Evaluation A	81LEB/BYK $C_p = 160.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 180.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₆H₈N₂O₉)_n (c) Cellulose nitrate Heat Capacity 298.15 K, Temperature range 10 to 370 K. Entropy 298.15 K, Molecular Weight 252.1373 Wiswesser Line Notation /T5OTJ B* CONW DONW EO* FIQ/ Evaluation B 11.9% nitrogen content. Dinitrocellulose has a nitrogen content of 11.11%.	85RAB/KHL $C_p = 279.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 318.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₉Cu (c) 1-Hexynylcopper; Copper butylacetylenide Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Molecular Weight 144.6831 Wiswesser Line Notation 5UU1-CU- Evaluation A	82BYK/LEB $C_p = 160.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 178.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₈O₂ (c) 1,4-Cyclohexanedione Heat Capacity 300 K, Temperature range 90 to 310 K. Linearly extrapolated. Phase Changes c,III/c,II 319.89 K c,II/c,I 336.73 K c,I/liq 351.6 K, Molecular Weight 112.1280 Wiswesser Line Notation L6V DVTJ Evaluation B(C _p), A(Phase changes).	83DEW/DEK $C_p = 161.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11325 \text{ J}\cdot\text{mol}^{-1}$	C₆H₉N (liq) 2,4-Dimethylpyrrole Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Phase Changes c/liq 268.435 K Molecular Weight 95.1438 Wiswesser Line Notation T5MJ B1 D1 Evaluation A	86STE/CHI $C_p = 192.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 222.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₆H₉N (liq) 2,5-Dimethylpyrrole Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c/liq 280.904 K Molecular Weight 95.1438 Wiswesser Line Notation T5MJ B1 E1 Evaluation A	86STE/CHI $C_p = 195.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 212.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₆H₉N (liq)	87MES/TOD	C₆H₁₀O (liq)	80NAK/SUG
2,5-Dimethylpyrrole		Cyclohexanone	
Heat Capacity 298.15 K,	$C_p = 195.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 177.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 400 K.		Temperature range 13 to 300 K.	
Entropy 298.15 K,	$S = 212.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Unsmoothed experimental datum for C_p at 296.40 K is	
Phase Changes		175.96 $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	
c/liq 280.904 K,	$\Delta H = 9296.0 \text{ J}\cdot\text{mol}^{-1}$	Entropy 300 K,	$S = 229.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 33.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 95.1438		c,II/c,I 220.83 K,	$\Delta H = 8659.6 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation T5MJ B1 E1			$\Delta S = 39.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		c,I/liq 245.21 K,	$\Delta H = 1327.6 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 5.414 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 98.1444	
		Wiswesser Line Notation L6VTJ	
		Evaluation A	
C₆H₉N (liq)	88MES/TOD	C₆H₁₀O (liq)	80NAK/SUG
2,5-Dimethylpyrrole		Cyclohexene oxide	
Heat Capacity 298.150 K,	$C_p = 195.297 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 166.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 400 K.		Temperature range 13 to 300 K.	
Entropy 298.150 K,	$S = 212.242 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Unsmoothed experimental datum for C_p at 296.96 K is	
Phase Changes		164.98 $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	
c/liq 280.904 K,	$\Delta H = 9298.42 \text{ J}\cdot\text{mol}^{-1}$	Entropy 300 K,	$S = 221.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 33.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 95.1438		c,II/c,I 193.10 K,	$\Delta H = 9535.1 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation T5MJ B1 E1			$\Delta S = 49.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		c,I/liq 238.14 K,	$\Delta H = 1064.5 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 4.470 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 98.1444	
		Wiswesser Line Notation T36 BOTJ	
		Evaluation A	
C₆H₁₀ (liq)	88KAL/WOY	C₆H₁₀O₂ (liq)	82VIL/CAS
Cyclohexene		3,6-Dioxaoctane	
Heat Capacity 298.12 K,	$C_p = 152.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 261.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 183 to 298 K.		One temperature.	
Unsmoothed experimental datum.		Molecular Weight 114.1438	
Molecular Weight 82.1450		Wiswesser Line Notation 20202	
Wiswesser Line Notation L6UTJ		Evaluation B	
Evaluation B		C₆H₁₀O₂ (liq)	78LEB/YEV2
(C₆H₁₀)_n (c)	88LEB/SMI	ϵ -Caprolactone	
Ethylene-butadiene copolymer		Heat Capacity 298.15 K,	$C_p = 196.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 298.15 K,	$C_p = 148.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 13.8 to 350 K.	
Temperature range 30 to 330 K.		Entropy 298.15 K,	$S = 235.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 148.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c/liq 271.83 K,	$\Delta H = 13820 \text{ J}\cdot\text{mol}^{-1}$
c,II/c,I 199 K			$\Delta S = 50.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Glass transition.		Molecular Weight 114.1438	
c/liq 333 K		Wiswesser Line Notation T7OVTJ	
Molecular Weight 82.1450		Evaluation A	
Wiswesser Line Notation /*2*/ & /*1U2U1*/		C₆H₁₀N₂O (liq)	80BYS
Evaluation A		2,3-Diazabicyclo[2.2.2]oct-2-ene N-oxide	
		Phase Changes	
		c,III/c,II 359.2 K,	$\Delta H = 5020 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 14.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,II/c,I 399.3 K,	$\Delta H = 8050 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 20.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq 437.9 K,	$\Delta H = 3840 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 8.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 126.1582		Molecular Weight 126.1582	
Wiswesser Line Notation T66 A B DNUNTJ DUO		Wiswesser Line Notation T66 A B DNUNTJ DUO	
Evaluation A		Evaluation A	
		C₆H₁₀O₂ (liq)	83LEB/YEV
		ϵ -Caprolactone	
		Heat Capacity 298.15 K,	$C_p = 196.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 13.8 to 340 K.	
		Entropy 298.15 K,	$S = 235.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
		c/liq 272.13 K,	$\Delta H = 13820 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 50.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 114.1438	
		Wiswesser Line Notation T7OVTJ	
		Evaluation A	

(C₆H₁₀O₂)_n (c) Poly-ε-caprolactone Heat Capacity 298.15 K, Temperature range 13.8 to 350 K. Entropy 298.15 K, Phase Changes c/liq 336 K, Molecular Weight 114.1438 Wiswesser Line Notation /*OV5*/ Evaluation A T(glass) = 209 K.	78LEB/YEV2 $C_p = 161.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 181.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₁NO (c) ε-Caprolactam Heat Capacity 300.00 K, Temperature Range 60 to 350 K Entropy 298.15 K, Phase Changes c/liq 342.305 K, Molecular Weight 113.1567 Wiswesser Line Notation T7MVTJ Evaluation B	62KOL/PAU $C_p = 156.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 168.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16096 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₀O₄ (liq) Ethylene glycol diacetate Heat Capacity 298.15 K, Temperature Range 273.15 to 323.15 K C_p (kJ kg ⁻¹ K ⁻¹) = 0.044175T - 11.049 Molecular Weight 146.1426 Wiswesser Line Notation 1VO2OV1 Evaluation D	83SAN/CIO $C_p = 310 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₁(NO)_n (c) Poly-ε-caprolactam Heat Capacity 298.15 K, Temperature Range 60 to 350 K Entropy 298.15 K, Molecular Weight 113.1567 Wiswesser Line Notation /*MV4*/ Evaluation B	62KOL/PAU $C_p = 169.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 173.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₀O₄ (liq) Ethylenglycoldiacetate Heat Capacity 298.15 K, One temperature. Molecular Weight 146.1426 Wiswesser Line Notation 1VO2OV1 Evaluation A	86NIL/WAD $C_p = 269.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₁NO₂ (liq) 1,1-Dimethoxy-3-cyanopropane; Dimethyl acetal of β-cyanopropionaldehyde Heat Capacity 298.15 K, Temperature range 55 to 300 K. Entropy 298.15 K, Phase Changes c/liq 154 K Glassy (solid) to liquid transition. Molecular Weight 129.1584 Wiswesser Line Notation NC2YO1&O1 Evaluation A	83GEI/KAR $C_p = 253.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 295.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₀O₄ (c) 1,4-Butanedioic acid Heat Capacity 298.15 K, Temperature range 5 to 450 K. Entropy 298.15 K, Phase Changes c/liq 424.7 K Molecular Weight 146.1426 Wiswesser Line Notation QV4VQ Evaluation A	84VAS/PET $C_p = 196.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 219.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₁O₂Tl (c) Thallium hexanoate Phase Changes c,III/c,II 395 K, c,II/c,I 412 K, c,I/liq 418 K, Solid-mesophase. liq/liq 500 K, Mesophase-isotropic. Molecular Weight 319.5217 Wiswesser Line Notation OV5 .TL Evaluation B	76MEI/SEY $\Delta H = 179 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1841 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4477 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 3035 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₈O₇·H₂O (c) Citric acid monohydrate Heat Capacity 300 K, Temperature range 120 to 300 K. Entropy 300 K, Phase Changes c,II/c,I 312.1 K, Molecular Weight 210.1402 Wiswesser Line Notation QVIXQVQIVQ &QH Evaluation B	82DEK/VAN $C_p = 269.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 285.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₁O₂Tl (c) Thallium hexanoate Heat Capacity 320 K, Temperature range 320 to 480 K. Phase Changes c,III/c,II 397.9 K, c,II/c,I 415.0 K, c,I/liq 425.0 K, Solid-mesophase. Molecular Weight 319.5217 Wiswesser Line Notation OV5 .TL Evaluation A Mesophase to isotropic liquid phase change data also given: 499.8 K;	84FER/LOP $C_p = 235 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 208 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 657 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4598 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 3941 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₁LiO₂ (c) Lithium n-hexanoate Heat Capacity 298.15 K, Temperature range 5 to 350 K. Entropy 298.15 K, Molecular Weight 122.0927 Wiswesser Line Notation OV5 .LI Evaluation A	86NGE/WES $C_p = 216.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 228.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₆H₁₁O₂Tl (c)	85BOE/LOP	C₆H₁₂ (liq)	86JIM/ROM
Thallium hexanoate		Cyclohexane	
Heat Capacity 298.15 K,	$C_p = 234.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 157.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 500 K.		One temperature.	
Entropy 298.15 K,	$S = 324.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 84.1608	
Phase Changes		Wiswesser Line Notation L6TJ	
c,V/c,IV 203.5 K,	$\Delta H = 1734 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
c,IV/c,III 280.3 K,	$\Delta S = 8.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
c,III/c,II 397.9 K	$\Delta H = 2511 \text{ J}\cdot\text{mol}^{-1}$	C₆H₁₂ (liq)	88SHI/OGA2
c,II/c,I 415.0 K	$\Delta S = 8.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Cyclohexane	
c,I/liq 425.0 K		Heat Capacity 298.15 K,	$C_p = 154.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid-mesomorphic liquid.		One temperature.	
Molecular Weight 319.5217		Molecular Weight 84.1608	
Wiswesser Line Notation OV5 .TL		Wiswesser Line Notation L6TJ	
Evaluation A		Evaluation A	
Mesomorphic liquid-isotropic liquid transition at 499.8 K.			
See 84FER/LOP, 81LIN/DIE, and 76MEI/SEY			
for transition data.			
C₆H₁₂ (liq)	85KAL/WOY	(C₆H₁₂)_n (gls)	74LEB/LEB
1-Hexene		1-Polyhexene	
Heat Capacity 298.56 K,	$C_p = 182.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 171.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 180 to 300 K.		Deposited in VINITI, No 2118-74, 30 July 1974.	
Value is unsmoothed experimental datum.		Molecular Weight 84.1608	
Molecular Weight 84.1608		Wiswesser Line Notation /*Y4&1*/	
Wiswesser Line Notation 5U1		Evaluation A	
Evaluation B		$T(\text{glass}) = 215.5 \text{ K}$.	
C₆H₁₂ (liq)	50AUE/SAG	C₆H₁₂BNO₃ (c)	64CAS/STO
Cyclohexane		Triethanolamine borate	
Heat Capacity 300 K,	$C_p = 154.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 187.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 300 to 366 K;		Temperature range 5 to 350 K.	
C_p given as $0.4378 \text{ Btu}(\text{lb})^{-1}(\text{°R})^{-1}$ at 80°F.		Entropy 298.15 K,	$S = 183.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 84.1608		Molecular Weight 156.9757	
Wiswesser Line Notation L6TJ		Wiswesser Line Notation T88 A B C AO DN GO HB IOTJ	
Evaluation B		Evaluation A	
C₆H₁₂ (liq)	76FOR/BEN2	C₆H₁₂BNO₃ (c)	64CLE/WON
Cyclohexane		Triethanolamine borate	
Heat Capacity 298.15 K,	$C_p = 156.070 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 320 K,	$C_p = 226.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 84.1608		Temperature range 320 to 525 K.	
Wiswesser Line Notation L6TJ		Entropy 320 K,	$S = 216.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Phase Changes	
Data from 76FOR/BEN.		c,II/c,I 466.54 K,	$\Delta H = 4774 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 10.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq 511.86 K,	$\Delta H = 24100 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 47.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 156.9757	
		Wiswesser Line Notation T88 A B C AO DN GO HB IOTJ	
		Evaluation A	
C₆H₁₂ (liq)	77VES/SVO	C₆H₁₂BrFeN₂S₄	89YOS/SOR
Cyclohexane		Bis(N,N-Dimethyldithiocarbamate) iron (III) bromide	
Heat Capacity 298.15 K,	$C_p = 156.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 296.421 K,	$C_p = 294.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 318 K.		Temperature range 0.4 to 300 K;	
Molecular Weight 84.1608		C_p value is unsmoothed experimental datum.	
Wiswesser Line Notation L6TJ		Phase Changes	
Evaluation B		c,III/c,II 0.837 K	
		Ferromagnetic/paramagnetic transition	
		c,II/c,I 8.8 K	$\Delta H = 5.77 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 6.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Schottky anomaly	
C₆H₁₂ (liq)	78SAF	Molecular Weight 376.1898	
Cyclohexane		Wiswesser Line Notation SUYS&N1&1 2 .FE &E	
Heat Capacity 298 K,	$C_p = 156.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 298 to 313 K.		The total magnetic entropy and enthalpy in the temperature range	
Data calculated from equation		0.4 to 30 K are $S = 11.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ and $92.0 \text{ J}\cdot\text{mol}^{-1}$,	
$C_p = 1.7493 + 0.00452 T \text{ kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$.		respectively.	
Molecular Weight 84.1608			
Wiswesser Line Notation L6TJ			
Evaluation B			

C₆H₁₂ClFeN₂S₄ (c)	84YOS/SOR	C₆H₁₂O₂ (liq)	86JIM/ROM
Chlorobis(N,N-dimethyldithiocarbamate)iron(III)		Propyl propionate; <i>n</i> -Propyl propanoate	
Heat Capacity 300 K,	$C_p = 299 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 226.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 0.4 to 300 K.		One temperature.	
Data graphically only.		Molecular Weight 116.1596	
Value estimated from graph.		Wiswesser Line Notation 3OV2	
Phase Changes		Evaluation B	
c,III/c,II 0.609 K			
Lambda transition.			
c,II/c,I 2 K			
Schottky-type anomaly.		C₆H₁₂O₂ (liq)	87ZAB/HYN
Molecular Weight 331.7142		Propyl propionate; <i>n</i> -Propyl propanoate	
Wiswesser Line Notation SUYS&N1&1 2 .FE &G		Heat Capacity 298.38 K,	$C_p = 229.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Temperature range 294 to 367 K.	
Total magnetic entropy is $14.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		Unsmoothed experimental datum.	
		Molecular Weight 116.1596	
		Wiswesser Line Notation 3OV2	
		Evaluation B	
C₆H₁₂Cl₂ (liq)	85LAI/GRO	C₆H₁₂O₂ (liq)	86JIM/ROM
1,6-Dichlorohexane		<i>n</i> -Butyl acetate; <i>n</i> -Butyl ethanoate	
Heat Capacity 298.15 K,	$C_p = 239.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 225.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		One temperature.	
Molecular Weight 155.0668		Molecular Weight 116.1596	
Wiswesser Line Notation G6G		Wiswesser Line Notation 4OV1	
Evaluation B		Evaluation B	
C₆H₁₂FeIN₂S₄ (c)	83YOS/SOR2	C₆H₁₂O₂ (liq)	87ZAB/HYN
Iodobis(N,N-dimethyldithiocarbamate) iron (III)		<i>n</i> -Butyl acetate; <i>n</i> -Butyl ethanoate	
Heat Capacity 298.352 K,	$C_p = 301.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.35 K,	$C_p = 228.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 0.4 to 300 K.		Temperature range 294 to 364 K.	
Unsmoothed experimental datum.		Unsmoothed experimental datum.	
Molecular Weight 423.1657		Molecular Weight 116.1596	
Wiswesser Line Notation SYUS&N1&1 2 .FE &I		Wiswesser Line Notation 4OV1	
Evaluation A		Evaluation B	
Lambda type anomaly observed at 1.65 K;			
Schottky type anomaly observed at ca. 0.7 K.			
C₆H₁₂O (liq)	70HAR/HEA	C₆H₁₂O₃ (liq)	83SAN/CIO
3,3-Dimethyl-2-butanone; Methyl <i>tert</i> -butyl ketone		2-Ethoxyethanol acetate	
Heat Capacity 298.15 K,	$C_p = 207.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 376 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		Temperature range 273.15 to 323.15 K.	
Molecular Weight 100.1602		$C_p^\circ(\text{kJ}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 0.009426T + 0.036$	
Wiswesser Line Notation 1X1&1&V1		Molecular Weight 132.1590	
Evaluation B		Wiswesser Line Notation 1VO2O2	
		Evaluation D	
C₆H₁₂O (liq)	89VES/BAR	C₆H₁₂O₆ (c)	82LIA/CHE
4-Methyl-2-pentanone; Isobutyl methyl ketone		meso-Inositol	
Heat Capacity 298.15 K	$C_p = 211.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 218.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 100.1602		One temperature.	
Wiswesser Line Notation 1Y1&1V1		Molecular Weight 180.1572	
Evaluation A		Wiswesser Line Notation L6TJ AQ BQ CQ DQ EQ FQ	
		Evaluation B	
C₆H₁₂O (liq)	70HAR/HEA	C₆H₁₂O₆ (c)	03MAG
3-Hexanone; Ethyl <i>n</i> -propyl ketone		Fructose	
Heat Capacity 298.15 K,	$C_p = 216.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 208.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		One temperature. C_p given as $0.276 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	
Molecular Weight 100.1602		Molecular Weight 180.1572	
Wiswesser Line Notation 3V2		Wiswesser Line Notation T6OTJ BQ B1Q CQ DQ EQ	
Evaluation B		A&DE -B&BC	
		Evaluation D	
C₆H₁₂O (liq)	70HAR/HEA		
2-Hexanone; Methyl <i>n</i> -butyl ketone			
Heat Capacity 298.15 K,	$C_p = 213.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
One temperature.			
Molecular Weight 100.1602			
Wiswesser Line Notation 4V1			
Evaluation B			

C₆H₁₂O₆ (c) 81KAW/KUS Fructose(D) Heat Capacity 303 K, $C_p = 232 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 315 K. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ B1Q CQ DQ EQ -A&DE -B&BC Evaluation B	C₆H₁₃N (liq) 87MES/TOD 2-Methylpiperidine Heat Capacity 298.15 K, $C_p = 212.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 390 K. Entropy 298.15 K, $S = 243.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 269.357 K, $\Delta H = 18583.6 \text{ J}\cdot\text{mol}^{-1}$ Molecular Weight 99.1754 Wiswesser Line Notation T6MTJ B1 Evaluation A
C₆H₁₂O₆ (c) 81KAW/KUS Mannose(D) Heat Capacity 303 K, $C_p = 216 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 315 K. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ F1Q -A&E -B&CDF Evaluation B	C₆H₁₃N (liq) 88MES/TOD 2-Methylpiperidine Heat Capacity 298.150 K, $C_p = 212.965 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 400 K. Entropy 298.150 K, $S = 243.762 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 269.357 K, $\Delta H = 18583.87 \text{ J}\cdot\text{mol}^{-1}$ Molecular Weight 99.1754 Wiswesser Line Notation T6MTJ B1 Evaluation A
C₆H₁₂O₆ (c) 81KAW/KUS Galactose(D) Heat Capacity 303 K, $C_p = 217 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 315 K. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ F1Q -A&BC -B&DEF Evaluation B	C₆H₁₃NO (liq) 76SKO/SUU N-Methylpentanamide; N-Methylvaleramide Heat Capacity 298.15 K, $C_p = 238.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 115.1748 Wiswesser Line Notation 4VM1 Evaluation A
C₆H₁₂O₆ (c) 03MAG α -Glucose(D) Heat Capacity 298 K, $C_p = 235.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.313 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ F1Q -A&BCE -B&DF Evaluation D	C₆H₁₃NO₂ (c) 84GRU/BOU Leucine (L); 2-Amino-4-methylpentanoic acid (L) Phase Changes c,II/c,I 352 K, $\Delta H = 200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 131.1742 Wiswesser Line Notation QVYZ1Y1&1-L Evaluation B
C₆H₁₂O₆ (c) 81KAW/KUS α -Glucose(D) Heat Capacity 303 K, $C_p = 224 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 315 K. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ F1Q -A&BCE -B&DF Evaluation B	C₆H₁₃NO₂ (c) 84GRU/BOU Norleucine (L); α -Aminocaproic acid (L) Phase Changes c,II/c,I 389 K, $\Delta H = 110 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 131.1742 Wiswesser Line Notation QVYZ4 -L Evaluation B
C₆H₁₂O₆ (c) 82LIA/CHE α -Glucose(D) Heat Capacity 298.15 K, $C_p = 219.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 180.1572 Wiswesser Line Notation T6OTJ BQ CQ DQ EQ F1Q -A&BCE -B&DF Evaluation B	C₆H₁₃NO₂ (c) 84GRU/BOU Norleucine (DL); α -Aminocaproic acid (DL) Phase Changes c,II/c,I 390 K, $\Delta H = 4410 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 131.1742 Wiswesser Line Notation QVYZ4 Evaluation B
C₆H₁₃N (liq) 86STE/CHI 2-Methylpiperidine Heat Capacity 298.15 K, $C_p = 212.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 380 K. Entropy 298.15 K, $S = 243.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 269.357 K Molecular Weight 99.1754 Wiswesser Line Notation T6MTJ B1 Evaluation A	C₆H₁₃NO₂ (c) 83SKO/SAB 6-Aminohexanoic acid Heat Capacity 298 K, $C_p = 175.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 131.1742 Wiswesser Line Notation Z5VQ Evaluation B

C₆H₁₄O₆ (c) Sorbitol(D) Heat Capacity 298.15 K, One temperature. Molecular Weight 182.1730 Wiswesser Line Notation Q1YQYQ 2-BBAA Evaluation B	82LIA/CHE $C_p = 241.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₅B (c) Triethylboron Heat Capacity 298.15 K, Temperature range 12 to 322 K. Data calculated from equation. $C_p = 6.2328 + 0.17161 T \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Entropy 298.15 K, Phase Changes c/liq 180.21 K, liq/g 321.81 K Molecular Weight 97.9945 Wiswesser Line Notation 2B2&2 Evaluation B	77KOS/SAM $C_p = 240 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 330.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11522 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₄O₆ (c) Mannitol Heat Capacity 298 K, One temperature. C_p given as $0.315 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 182.1730 Wiswesser Line Notation Q1YQYQYQYQ1Q-DDLL Evaluation D	03MAG $C_p = 240.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
C₆H₁₄O₆ (c) Mannitol(D) Heat Capacity 298.15 K, One temperature. Molecular Weight 182.1730 Wiswesser Line Notation Q1YQYQYQYQ1Q-DDLL-D Evaluation B	82LIA/CHE $C_p = 239.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₅N (liq) Dipropylamine Heat Capacity Temperature range 294.15 to 403.15 K. Heat capacity is an average value over the temperature range. Molecular Weight 101.1912 Wiswesser Line Notation 3M3 Evaluation D	01KAH $C_p = 252.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₄O₆ (c) Dulcitol; Dulcitol; Galactitol Heat Capacity 298 K, One temperature. C_p given as $0.283 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 182.1730 Wiswesser Line Notation Q1YQYQYQYQ1Q-DLLD Evaluation D	03MAG $C_p = 215.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₅N₃ (liq) N-(2-Aminoethyl)piperazine Heat Capacity 333 K, Temperature Range 333 to 473 K Molecular Weight 129.2046 Wiswesser Line Notation T6M DNTJ D2Z Evaluation D	88BOB/KAM $C_p = 284 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₄S (liq) 1-Hexanethiol; <i>n</i> -Hexyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 221.21 + 3.060 \times 10^{-2} T + 8.343 \times 10^{-5} T^2$. Molecular Weight 118.2366 Wiswesser Line Notation SH6 Evaluation B	82TUT/GAB $C_p = 237.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₅NO₃ (liq) Triethanolamine Heat Capacity 298.15 K, One temperature. Molecular Weight 149.1894 Wiswesser Line Notation Q2N2Q2Q Evaluation C	82MIN/SAB $C_p = 389 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $2.6 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
C₆H₁₅Al (liq) Triethylaluminum Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c/liq 225.00 K, Molecular Weight 114.1660 Wiswesser Line Notation 2-AL-2&2 Evaluation A	84SHE/NIS $C_p = 239.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 307.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₆Si₂ (c) 1,1,3,3-Tetramethyl-1,3-disilacyclobutane Heat Capacity 298.15 K, Temperature range 10 to 300 K. Data given graphically. Entropy 298.15 K, Phase Changes c/liq 266.02 K, liq/g 390.93 K, Molecular Weight 144.3634 Wiswesser Line Notation T4-SI-TJ A1 A1 C ₁ C ₁ Evaluation B	75GUS/KAR $C_p = 216.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 296.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10259 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 38.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 39480 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 91.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₅Al (liq) Triethylaluminum Heat Capacity 298.15 K, Temperature range 5 to 313 K. Entropy 298.15 K, Phase Changes c/liq 225.00 K, Molecular Weight 114.1660 Wiswesser Line Notation 2-AL-2&2 Evaluation A	89RAB/NIS $C_p = 239.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 308.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₆H₁₇BeF₄N₃O₆ (c) Triglycine fluoroberyllate Heat Capacity 300 K, Temperature range 294 to 340 K. C_p given as $0.316 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 312.2226 Wiswesser Line Notation Z1VQ 3 &H2 .BE F4 Evaluation B	79LOI/OSB $C_p = 412.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₆H₁₇BeF₄N₃O₆ (c)	81LOI/KOS	C₆H₁₈N₃OP (liq)	82VOR/YAK
Triglycine fluoroberyllate		Hexamethylphosphoramidate; Hexamethylphosphoric triamide	
Heat Capacity 308 K,	$C_p = 444 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 321.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		Temperature range 297.15 to 299.15 K.	
$C_p(35^\circ\text{C}) = 0.34 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.		C_p given as $1.793 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.	
Molecular Weight 312.2226		Molecular Weight 179.2015	
Wiswesser Line Notation Z1VQ 3 &H2 .BE F4		Wiswesser Line Notation OPN1&1&N1&1&N1&1	
Evaluation B		Evaluation B	
C₆H₁₇BeF₄N₃O₆ (c)	81LOI/KOS2	C₆H₁₈Si₂ (liq)	59SUG/SEK
Triglycine fluoroberyllate		Hexamethyldisilane	
Phase Changes		Heat Capacity 295.67 K,	$C_p = 255.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 345 K,	$\Delta H = 1254 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 206 to 296 K.	
	$\Delta S = 3.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Unsmoothed experimental datum.	
Ferroelectric transition.		Phase Changes	
Molecular Weight 312.2226		c,II/c,I 221.8 K,	$\Delta H = 9749 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation Z1VQ 3 &H2 .BE F4			$\Delta S = 43.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation C		c,I/liq 287.72 K,	$\Delta H = 3017 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 10.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₇N₃O₁₀S (c)	75CAM/GON	Molecular Weight 146.3792	
Triglycine sulfate		Wiswesser Line Notation 1-SI-1&1-SI-1&1&1	
Heat Capacity 300 K,	$C_p = 420 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation C	
Temperature range 100 to 400 K.			
Data given graphically; C_p estimated from graph.			
Phase Changes		C₆H₂₀Cl₄MnN₂ (c)	75BOC/ARR
c,II/c,I 322.55 K,	$\Delta H = 614 \text{ J}\cdot\text{mol}^{-1}$	Tetrachlorobis-(propylammonium) manganese II	
	$\Delta S = 1.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 323.2804		c,IV/c,III 323 K,	$\Delta H = 67.2 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation Z1VQ 3 &WSQQ			$\Delta S = 0.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation C _p (D); Phase change(B)		c,III/c,II 383 K,	$\Delta H = 14.4 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 0.036 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆H₁₇N₃O₁₀S (c)	79LOI/OSB	c,II/c,I 445 K,	$\Delta H = 5.3 \text{ J}\cdot\text{mol}^{-1}$
Triglycine sulfate			$\Delta S = 0.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 300 K,	$C_p = 407 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 316.9874	
Temperature range 294 to 340 K.	$C_p = 0.301 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	Wiswesser Line Notation 3ZH 2 .MN G4	
Phase Changes		Evaluation A	
c,II/c,I	$\Delta H = 622 \text{ J}\cdot\text{mol}^{-1}$		
No temperature given.		C₆H₂₁N₃Si₃ (liq)	81MEK/KAR
Molecular Weight 323.2804		Hexamethyltrisilazane	
Wiswesser Line Notation Z1VQ 3 &WSQQ		Heat Capacity 298.15 K,	$C_p = 428.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Temperature range 13 to 390 K.	
		Data given graphically.	
C₆H₁₇N₃O₁₀S (c)	81LOI/KOS	Entropy 298.15 K,	$S = 460 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Triglycine sulfate		Phase Changes	
Heat Capacity 308 K,	$C_p = 419 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 254.4 K,	$\Delta H = 15171 \text{ J}\cdot\text{mol}^{-1}$
One temperature.			$\Delta S = 61.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_p(35^\circ\text{C}) = 0.31 \text{ cal}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.		Molecular Weight 219.5085	
Molecular Weight 323.2804		Wiswesser Line Notation T6-SI-M-SI-M-SI-MTJ A1 A1 C ₁ C ₁ E1 E1	
Wiswesser Line Notation Z1VQ 3 &WSQQ		Evaluation A	
Evaluation B			
		C₆O₁₂Ce₂ (c)	85GAL/DWO
C₆H₁₇N₃O₁₀S·C₆H₁₇N₃O₁₀Se (c)	83GUL/POL	Cerium(III) oxalate	
Triglycine sulfate-triglycine selenate		Heat Capacity 418 K,	$C_p = 499.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 303 K,	$C_p = 461 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 298 to 773 K.	
One temperature.	$C_p = 1.26 \text{ J}\cdot\text{g}^{-1}\cdot^\circ\text{C}^{-1}$.	$C_p = 3.2177 \times 10^1 - (1.9668 \times 10^{-1})T$	
Molecular Weight 365.4850		+ $(4.0732 \times 10^{-4})T^2 - (2.7686 \times 10^{-7})T^3 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ over the	
Wiswesser Line Notation Z1VQ 3 &WSQQ — &Z1VQ 3		temperature range 418 to 538 K.	
&W-SE-QQ		Molecular Weight 544.2888	
Evaluation C		Wiswesser Line Notation OV1 3 .CE 2	
TGS _{0.10} — TGS _{E0.90}		Evaluation B	
C₆H₁₈N₄ (liq)	88BOB/KAM		
Triethylenetetramine			
Heat Capacity 333 K,	$C_p = 376 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Temperature Range 333 to 473 K			
Molecular Weight 146.2350			
Wiswesser Line Notation Z2M2M2Z			
Evaluation D			

C₇F₁₆ (liq) Perfluoroheptane; Hexadeca-fluoroheptane Heat Capacity 300 K, $C_p = 419.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 18 to 310 K Entropy 298.15 K, $S = 561.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 180.45 K, $\Delta H = 6670.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 221.86 K, $\Delta H = 6947.2 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 31.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 388.0514 Wiswesser Line Notation FXFFXFFXFFXFFXFFX FXFFX Evaluation A	51OLI/GRI	C₇H₄F₃NO₂ (liq) 3-Trifluoromethyl nitrobenzene Heat Capacity $C_p = 224.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298 to 373 K. Heat capacity is an average value. Data given over temperature range. Molecular Weight 191.1093 Wiswesser Line Notation WNR CXFFF Evaluation B	81LEB/RYA
C₇F₁₆ (liq) Perfluoroheptane; Hexadecafluoroheptane Heat Capacity 293 K, $C_p = 322.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Interpolated data. Molecular Weight 388.0514 Wiswesser Line Notation FXFFXFFXFFXFFXFFXFFXFFX Evaluation C	83CAM/DIA	C₇H₄MnNO₃ (c) Azacymantrene; Pyrroyl manganese tricarbonyl Heat Capacity 298.15 K, $C_p = 236.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 124 to 293 K. Data given graphically. $C_p = 172.3 - 1.16T + 7.86 \times 10^{-3}T^2$ $- 1.09 \times 10^{-5}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (124 to 150 K; 240 to 293 K). C_p value calculated from equation. Phase Changes c,II/c,I 150–240 K, $\Delta H = 702 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 205.0515 Wiswesser Line Notation T5NØJ Ø-MN-- CO 3 Evaluation C (C_p), A (Phase changes)	78POM/CHH
C₇H₄CrO₃S (c) Thiophene chromium tricarbonyl Heat Capacity 298.15 K, $C_p = 193.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 120 to 300 K. Data given graphically. $C_p = 71.02 - 4.41 \times 10^{-1}T$ $+ 4.61 \times 10^{-3}T^2 - 5.96 \times 10^{-6}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (105 to 130 K; 245 to 300 K). C_p value calculated from equation. Phase Changes c,II/c,I 185 K, $\Delta H = 1650 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 220.1628 Wiswesser Line Notation T5SØJ Ø-CR-- CO 3 Evaluation C (C_p), A (Phase changes)	78POM/CHH	C₇H₄MnNO₃ (c) Azacymantrene; Pyrroyl manganese tricarbonyl Heat Capacity 298.15 K, $C_p = 216.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 300 K. Entropy 298.15 K, $S = 250.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 305 K, $\Delta H = 1910 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 315.5 K, $\Delta H = 13010 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 205.0515 Wiswesser Line Notation T5NØJ Ø-MN-- CO 3 Evaluation A	83CHH/POM
C₇H₄CrO₃Se (c) Selenophene chromium tricarbonyl Heat Capacity 298.15 K, $C_p = 272.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 125 to 337 K. Data given graphically. $S_p = 116.8 + 2.69 \times 10^{-1}T + 1.48 \times 10^{-3}T^2$ $- 2.08 \times 10^{-6}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (125 to 337K). C_p value calculated from equation. Molecular Weight 267.0628 Wiswesser Line Notation T5-SE-ØJ Ø-CR-- CO 3 Evaluation C (C_p), A (Phase changes)	78POM/CHH	C₇H₅BrO₂ (c) 2-Bromobenzoic acid Heat Capacity 298.15 K, $C_p = 153.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Value given as $C_p = 0.765 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 201.0193 Wiswesser Line Notation QVR BE Evaluation C	87FER/PIL
C₇H₄CrO₃Te (c) Tellurophene chromium tricarbonyl Heat Capacity 298.15 K, $C_p = 278.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 124 to 326 K. Data given graphically. $C_p = 96.85 + 1.67 \times 10^{-1}T +$ $2.44 \times 10^{-3}T^2 - 3.19 \times 10^{-6}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (124 to 326 K). C_p value calculated from equation. Molecular Weight 315.7028 Wiswesser Line Notation T5-TE-ØJ Ø-CR-- CO 3 Evaluation C (C_p), A (Phase changes)	78POM/CHH	C₇H₅BrO₂ (c) 3-Bromobenzoic acid Heat Capacity 298.15 K, $C_p = 151.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Value given as $C_p = 0.753 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 201.0193 Wiswesser Line Notation QVR CE Evaluation C	87FER/PIL

C₇H₅BrO₂ (c) 4-Bromobenzoic acid Heat Capacity 298.15 K, One temperature. Value given as $C_p = 0.753 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 201.0193 Wiswesser Line Notation QVR DE Evaluation B	87FER/PIL $C_p = 151.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₅N (liq) Benzonitrile Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Phase Changes c/liq 260.33 K, Molecular Weight 103.1232 Wiswesser Line Notation NCR Evaluation A	85LEB/BYK $C_p = 165.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₅Cl₃ (liq) Benzotrìchloride; <i>α,α,α</i> -Trìchlorotoluene Phase Changes c,l/liq 235.99 K, Molecular Weight 108.1396 Wiswesser Line Notation GXGGR Evaluation A	87GOA/BOE $\Delta H = 13950 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 59.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₅NO₂ (c) 4-Nitrobenzoic acid Phase Changes c/liq 512.35 K, Molecular Weight 167.1208 Wiswesser Line Notation WNR DVQ Evaluation C	72BOO/HAU $\Delta H = 36900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 72.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₅F₃O₂ (liq) 3-Trìfluoromethylbenzoic acid; <i>m</i> -Trìfluorotoluic acid Heat Capacity 298.15 K, One temperature. Molecular Weight 178.1105 Wiswesser Line Notation QV1R CXGGG Evaluation B	62GOO/LAC $C_p = 223.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₆N₂ (c) Benzimidazole Heat Capacity 298.15 K, One temperature. Molecular Weight 118.1378 Wiswesser Line Notation T56 BM DNJ Evaluation B	87JIM/ROU $C_p = 128.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.09 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$
C₇H₅N (liq) Benzonitrile Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Phase Changes c/liq 260.33 K, Molecular Weight 103.1232 Wiswesser Line Notation NCR Evaluation A	83BYK/LEB $C_p = 165.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₆N₂ (c) Indazole Heat Capacity 298.15 K, One temperature. Molecular Weight 118.1378 Wiswesser Line Notation T56 BMNJ Evaluation B	87JIM/ROU $C_p = 128.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.09 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$
C₇H₅N (liq) Benzonitrile Heat Capacity 298.15 K, Temperature range 14 to 330 K. Phase Changes c,l/liq 260.33 K, Molecular Weight 103.1232 Wiswesser Line Notation NCR Evaluation A	84BYK/KIP $C_p = 165.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₆O₂ (c) Benzoic acid Heat Capacity 298.15 K, Temperature range 20 to 298 K. Entropy 298.15 K, Molecular Weight 122.1232 Wiswesser Line Notation QVR Evaluation B	57DAV/STA $C_p = 147.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 167.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₅N (liq) Benzonitrile Heat Capacity 298.15 K, Temperature range 25 to 330 K. Entropy 298.15 K, Phase Changes c/liq 260.332 K, Molecular Weight 103.1232 Wiswesser Line Notation NCR Evaluation A	84LEB/BYK2 $C_p = 165.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 209.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10980 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₆O₂ (c) Benzoic acid Heat Capacity 299.62 K, Temperature range 12 to 304 K Molecular Weight 122.1232 Wiswesser Line Notation QVR Evaluation A	75TAT/MAT $C_p = 147.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₇H₆O₂ (c) Benzoic acid Heat Capacity 298.15 K, Temperature range 20 to 300 K. Molecular Weight 122.1232 Wiswesser Line Notation QVR Evaluation A	80SHA/LYU $C_p = 146.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₇H₆O₂ (c)	88TOR/BAR	C₇H₈ (liq)	76FOR/BEN2
Benzoic acid		Toluene	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 157.026 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
liq/g	335 K,	One temperature.	
		Molecular Weight 92.1402	
c/g	298.15 K,	Wiswesser Line Notation 1R	
		Evaluation A	
Molecular Weight 122.1232		Data from 76FOR/BEN.	
Wiswesser Line Notation QVR			
Evaluation A			
C₇H₆O₃ (c)	81LEB/RYA	C₇H₈ (liq)	84STE/OLS
3,4-Dihydroxybenzaldehyde		Toluene	
Heat Capacity	$C_p = 205.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 158.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 413 K.		Temperature range 266 to 318 K.	
Data given over temperature range.		C_p given as $0.4117 \text{ cal}\cdot\text{g}^{-1}\cdot\text{C}^{-1}$.	
Heat capacity is an average value.		Molecular Weight 92.1402	
Molecular Weight 138.1226		Wiswesser Line Notation 1R	
Wiswesser Line Notation VHR CQ DQ		Evaluation B	
Evaluation B			
C₇H₇F (liq)	62GOO/LAC	C₇H₈ (liq)	86RED
4-Fluorotoluene		Toluene	
Heat Capacity 298.15 K,	$C_p = 172.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 303.15 K,	$C_p = 159.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		Temperature range 303.15, 313.15 K.	
Molecular Weight 110.1307		Molecular Weight 92.1402	
Wiswesser Line Notation FR D1		Wiswesser Line Notation 1R	
Evaluation B		Evaluation B	
C₇H₇NO₃ (c)	81LEB/RYA	C₇H₈ (liq)	86TAR/AIC
<i>p</i> -Nitroanisole; 4-Nitromethoxybenzene		Toluene	
Heat Capacity	$C_p = 279.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 158.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 320 K.		One temperature.	
Data given over temperature range.		Molecular Weight 92.1402	
Molecular Weight 153.1372		Wiswesser Line Notation 1R	
Wiswesser Line Notation WNR DO1		Evaluation B	
Evaluation B			
C₇H₇NS (c)	82SAB/TOR	C₇H₈ (liq)	88SHI/OGA
Thiobenzamide		Toluene	
Heat Capacity 298 K,	$C_p = 152.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 155.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		One temperature.	
C_p given as $1.114 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Molecular Weight 92.1402	
Phase Changes		Wiswesser Line Notation 1R	
c/g	298.15 K,	Evaluation A	
Molecular Weight 137.1990		C₇H₈ (liq)	78STE
Wiswesser Line Notation ZYR&US		Quadricyclane;	
Evaluation B		Tetracyclo[3.2.0.0.2 ⁷ 0 ⁴ 6]heptane	
		Heat Capacity 298.15 K,	$C_p = 157.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
		Molecular Weight 92.1402	
		Wiswesser Line Notation L435 B3 2AB GTJ	
		Evaluation B	
C₇H₈ (liq)	74RAJ/SUB	C₇H₈ (liq)	78STE
Toluene		Norbornadiene; Bicyclo[2.2.1]hept-2,5-diene	
Heat Capacity 298.15 K,	$C_p = 156.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 161.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298.15 to 323.15 K.		One temperature.	
Molecular Weight 92.1402		Molecular Weight 92.1402	
Wiswesser Line Notation 1R		Wiswesser Line Notation L55 A CU FUTJ	
Evaluation B		Evaluation B	
C₇H₈ (liq)	75HOL/ZIE	C₇H₈N₂O (c)	87FER/DEL
Toluene		Phenylurea; Monophenylurea	
Heat Capacity 298.15 K,	$C_p = 156.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 165 to 312 K.		c/liq	420.6 K,
$C_p = 187.43814 - 0.73026493T$			$\Delta H = 23680 \text{ J}\cdot\text{mol}^{-1}$
$+ 0.0029613602T^2 - 2.8661704 \times 10^{-6}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.			$\Delta S = 56.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 136.1530	
c/liq	178.166 K	Wiswesser Line Notation ZVMR	
Molecular Weight 92.1402		Evaluation A	
Wiswesser Line Notation 1R			
Evaluation A			

C₇H₈O (liq) Anisole; Methyl phenyl ether; Methoxybenzene Phase Changes c/liq 293.2 K, $\Delta H = 17029 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation 1OR Evaluation C	1889EYK	C₇H₉N (liq) N-Methylaniline Heat Capacity 298 K, Temperature range 220 to 325 K. Phase Changes c/liq 216 K Molecular Weight 107.1548 Wiswesser Line Notation 1MR Evaluation B	87LES/LIC $C_p = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (liq) Anisole; Methyl phenyl ether; Methoxybenzene Heat Capacity 298.15 K, One temperature. Molecular Weight 108.1396 Wiswesser Line Notation 1OR Evaluation B	75FEN/HAR	C₇H₉N (liq) 2,3-Dimethylpyridine; 2,3-Lutidine Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Phase Changes c,II/c,I 47.350 K c,I/liq 258.565 K Molecular Weight 107.1548 Wiswesser Line Notation T6NJ B1 C1 Evaluation A	86STE/CHI $C_p = 189.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 243.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (liq) Anisole; Methyl phenyl ether; Methoxybenzene Phase Changes c,I/liq 268.73 K, $\Delta H = 12890 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation 1OR Evaluation A	87GOA/BOE	C₇H₉N (liq) 2,4-Dimethylpyridine Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Phase Changes c/liq 209.415 K Molecular Weight 107.1548 Wiswesser Line Notation T6NJ B1 D1 Evaluation A	86STE/CHI $C_p = 184.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 248.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (c) 2-Methylphenol; <i>o</i> -Hydroxytoluene; <i>o</i> -Cresol Phase Changes c/liq 303.0 K, $\Delta H = 13938 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 46.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation QR B1 Evaluation A	82POE/FAN	C₇H₉N (liq) 2,5-Dimethylpyridine Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Phase Changes c,II/c,I 182.200 K c/liq 259.070 K Molecular Weight 107.1548 Wiswesser Line Notation T6NJ B1 E1 Evaluation A	86STE/CHI $C_p = 184.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 248.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (liq) 3-Methylphenol; <i>m</i> -Hydroxytoluene; <i>m</i> -Cresol Phase Changes c/liq 285.0 K, $\Delta H = 9413 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 33.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation QR C1 Evaluation A	82POE/FAN	C₇H₉N (liq) 2,6-Dimethylpyridine Heat Capacity 298.15 K, Temperature range 10 to 440 K. Entropy 298.15 K, Phase Changes c,II/c,I 35.816 K c,I/liq 267.033 K Molecular Weight 107.1548 Wiswesser Line Notation T6NJ B1 F1 Evaluation A	86STE/CHI $C_p = 185.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 244.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (c) 4-Methylphenol; <i>p</i> -Hydroxytoluene; <i>p</i> -Cresol Phase Changes c/liq 309 K, $\Delta H = 12247 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation QR D1 Evaluation C	1889EYK	C₇H₉N (liq) 3,4-Dimethylpyridine Heat Capacity 298 K, Temperature range 265 to 380 K. Data graphically only. Value given is estimated from graph. Molecular Weight 107.1548 Wiswesser Line Notation T6NJ C1 D1 Evaluation B Specific heat anomaly with peak at 293.5 K, $\Delta H = 65.6 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 0.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Temperature range of anomaly is 280 to 310 K.	84POD/RAC $C_p = 196 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₈O (c) 4-Methylphenol; <i>p</i> -Hydroxytoluene; <i>p</i> -Cresol Phase Changes c/liq 309.0 K, $\Delta H = 11887 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 38.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1396 Wiswesser Line Notation QR D1 Evaluation A	82POE/FAN		

C₇H₉N (liq)	86STE/CHI	C₇H₁₀ (c)	78STE
3,4-Dimethylpyridine		Nortricyclene; Tricyclo[2.2.1.0 ^{2,6}]heptane	
Heat Capacity 298.15 K,	$C_p = 191.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 129.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 450 K.		One temperature.	
Entropy 298.15 K,	$S = 240.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 94.1560	
Phase Changes		Wiswesser Line Notation L535 B 1A GTJ	
c,II/c,I 241.100 K		Evaluation B	
c,I/liq 262.704 K			
Molecular Weight 107.1548			
Wiswesser Line Notation T6NJ C1 D1			
Evaluation A			
C₇H₉N (liq)	86STE/CHI	C₇H₁₀ (liq)	78STE
3,5-Dimethylpyridine		Norbornene; Bicyclo[2.2.1]heptene	
Heat Capacity 298.15 K,	$C_p = 184.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 129.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 450 K.		One temperature.	
Entropy 298.15 K,	$S = 241.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 94.1560	
Phase Changes		Wiswesser Line Notation L55 A CUTJ	
c/liq 266.823 K		Evaluation B	
Molecular Weight 107.1548			
Wiswesser Line Notation T6NJ C1 E1			
Evaluation A			
C₇H₉N (c)	1889EYK	C₇H₁₀N₂O (c)	80BYS
4-Methylaniline; <i>p</i> -Toluidine		6,7-Diazatricyclo[3.2.2.0 ^{2,4}]non-6-ene N-oxide	
Phase Changes		Phase Changes	
c/liq 315.6 K,	$\Delta H = 17280 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 372.6 K,	$\Delta H = 15800 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 107.1548			$\Delta S = 42.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation ZR D1		c,I/liq 411.4 K,	$\Delta H = 2600 \text{ J}\cdot\text{mol}^{-1}$
Evaluation C			$\Delta S = 6.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 138.1692	
		Wiswesser Line Notation T366/DI 2AC I ENUNTJ EUO	
		Evaluation A	
C₇H₉O₂·H₂O (c)	82VII/GAM	C₇H₁₀N₂O₂ (c)	84ZIE/ZIE
Orcinol monohydrate; 3,5-Dihydroxytoluene monohydrate		1,3,6-Trimethyluracil	
Phase Changes		Phase Changes	
c/liq 328.0 K,	$\Delta H = 26360 \text{ J}\cdot\text{mol}^{-1}$	c/liq 384.5 K,	$\Delta H = 21200 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 80.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 142.1542		Molecular Weight 154.1682	
Wiswesser Line Notation QR CQ E1 &QH		Wiswesser Line Notation T6NVNVJ A1 C1 F1	
Evaluation B		Evaluation B	
C₇H₉NO (c)	81LEB/RYA	C₇H₁₂ (c)	78STE
<i>p</i> -Anisidine		Norbornane; Bicyclo[2.2.1]heptane	
Heat Capacity	$C_p = 236.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 151.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 320 K.		One temperature.	
Data given over temperature range.		Molecular Weight 96.1718	
Molecular Weight 123.1542		Wiswesser Line Notation L55 ATJ	
Wiswesser Line Notation ZR DO1		Evaluation B	
Evaluation B			
C₆H₇N·CH₂O (c)	82KIS/SAN	C₇H₁₂ (liq)	88LEB/KUL
Aniline-formaldehyde		4-Methylcyclohexene	
Heat Capacity	$C_p = 132.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 180.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 303 K.		Temperature range 13.4 to 350 K.	
C_p data given as $1.0736 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$ over a 25 to 30 °C		Entropy 298.15 K,	$S = 253.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
temperature range.		Molecular Weight 96.1718	
Molecular Weight 123.1542		Wiswesser Line Notation L6UTJ D1	
Wiswesser Line Notation ZR &VH		Evaluation A	
Evaluation C			
C_p data given for 1:1 molar proportion of aniline formaldehyde.			
C_p data also given for the solid compounds of molar proportion:			
1:2, 1:3, 1:4, 1:4.5, 1:4.75, 1:5, 1:7, 2:1 and 4:1.			

C₇H₁₂ (liq)	89LEB/SMI	C₇H₁₃O₂Tl (c)	76MEI/SEY
<i>cis</i> -Cycloheptene		Thallium heptanoate	
Heat Capacity 298.15 K, Temperature range 0 to 310 K.	$C_p = 171.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Entropy 298.15 K,	$S = 241.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 299 K,	$\Delta H = 2761 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		c,I/liq 419 K,	$\Delta H = 6276 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 154.22 K,	$\Delta H = 7070 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Solid-mesophase.	
c,II/c,I 208.26 K	$\Delta H = 730 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	liq/liq 501 K,	$\Delta H = 3138 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 217.75 K	$\Delta H = 820 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Mesophase-isotropic.	
Molecular Weight 96.1718		Molecular Weight 333.5485	
Wiswesser Line Notation L7UTJ -C		Wiswesser Line Notation OV6 .TL	
Evaluation A		Evaluation B	
$T_1(\text{glass}) = 97 \text{ K}$; $T_2(\text{glass}) = 135 \text{ K}$			
(C₇H₁₂)_n (liq)	80LEB/MUK	C₇H₁₃O₂Tl (c)	84FER/LOP
Butadiene-propylene copolymer		Thallium heptanoate	
Heat Capacity 298.15 K, Temperature range 8 to 330 K.	$C_p = 192.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 320 K, Temperature range 320 to 480 K.	$C_p = 318 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 209.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c,II/c,I 301.9 K,	$\Delta H = 2652 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 262 K,	$\Delta H = 7800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 29.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 420.7 K,	$\Delta H = 6302 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
100% crystallinity.		Solid-mesophase.	
Molecular Weight 96.1718		Molecular Weight 333.5485	
Wiswesser Line Notation /*1Y1&2U2*/		Wiswesser Line Notation OV6 .TL	
Evaluation A		Evaluation A	
$T(\text{glass}) = 198 \text{ K}$.		Mesophase to isotropic liquid phase change data also given: 502.0 K; $\Delta H = 3301 \text{ J}\cdot\text{mol}^{-1}$; $\Delta S = 6.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	
C₇H₁₂O₂ (liq)	85KAR/ABD2	C₇H₁₃O₂Tl (c)	85NGE/LOP
Butyl acrylate		Thallium heptanoate	
Phase Changes		Heat Capacity 298.15 K, Temperature range 5 to 500 K. Estimated value.	$C_p = 367.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 209.5 K,	$\Delta H = 17307 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 82.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 320.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 128.1706		Phase Changes	
Wiswesser Line Notation 4OV1U1		c,VI/c,V 262.8 K,	$\Delta H = 1966 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		c,V/c,IV 267.8 K,	$\Delta H = 1167 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₃LiO₂ (c)	86FRA/NGE	c,IV/c,III 271.7 K,	$\Delta H = 1176 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Lithium heptanoate		c,III/c,II 296.2 K,	$\Delta H = 2956 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 300 K, Temperature range 5 to 350 K.	$C_p = 231.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 300.9 K,	$\Delta H = 2546 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 300 K,	$S = 231.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 420.7 K	
Phase Changes		Solid-mesomorphic liquid.	
c,II/c,I 317.08 K,	$\Delta H = 5840 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 18.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 333.5485	
Molecular Weight 136.1195		Wiswesser Line Notation OV6 .TL	
Wiswesser Line Notation OV6 .LI		Evaluation A	
Evaluation A		Mesomorphic liquid-isotropic liquid transition at 502.7 K.	
C₇H₁₃NO (c)	62KOL/PAU		
ζ-Enantholactam			
Heat Capacity 295.00 K, Temperature range 60 to 350 K.	$C_p = 205.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Entropy 298.15 K,	$S = 190.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes			
c/liq 310.295 K,	$\Delta H = 13775 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 44.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 127.1835			
Wiswesser Line Notation T8MVTJ			
Evaluation B			

C₇H₁₃O₂TI (c)	89LAB/LOP	C₇H₁₄O (liq)	82DYA/VAS
Thallium heptanoate		Heptanal; Oenanthal; Enanthal; <i>n</i> -Heptaldehyde	
Heat Capacity 298.15 K,	$C_p = 354.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 230.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 350 K.		Calculated from general equation:	
Entropy 298.15 K,	$S = 330.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_p(\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = (112.4 \pm 4.2) -$	
Phase Changes		$(59.94 \pm 3.46) \times 10^{-2}T(\text{K}) + (10.93 \pm 0.74) \times 10^{-4}T^2 +$	
c,IV'/c,III'	269.3 K,	$(20.66 \pm 0.57) \times n_c$ (number of carbon atoms) +	
		$(2.65 \pm 0.19) \times 10^{-2}Tn_c.$	
c,III'/c,II	271.8 K,	Entropy 298.15	$S = 335.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
c,V/c,IV	262.3 K,	c/liq	$\Delta H = 22890 \text{ J}\cdot\text{mol}^{-1}$
		Molecular Weight 114.1870	
c,IV/c,III	267.9 K,	Wiswesser Line Notation VH6	
		Evaluation B	
c,III/c,II	272.4 K,	C₇H₁₄O (liq)	84VAS/PET
		Heptanal; Oenanthal; Enanthal; <i>n</i> -Heptaldehyde	
c,II/c,I	300.96 K,	Heat Capacity 298.15 K,	$C_p = 230.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 10 to 350 K.	
c,I/liq	420.7 K,	Entropy 298.15 K,	$S = 335.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
c,I/mesophase.		c/liq	229.20 K
c/liq	502.0 K,	Molecular Weight 114.1870	
		Wiswesser Line Notation VH6	
Mesophase/isotropic liquid.		Evaluation A	
Molecular Weight 333.5485		C₇H₁₄O₂ (liq)	86NIL/WAD
Wiswesser Line Notation OV6 .TL		Ethyl-2,2-dimethylpropanoate	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 251.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
C₇H₁₄ (liq)	75HOL/ZIE	Molecular Weight 130.1864	
Methylcyclohexane		Wiswesser Line Notation 2OVX1&1&1	
Heat Capacity 298.15 K,	$C_p = 184.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 144 to 312 K.		C₇H₁₄O₃ (liq)	82BIR/SIK
$C_p = 129.88277 - 0.0054107773T +$		2-Hydroxyethyl-2',2'-dimethylpropionate;	
$7.9975642 \times 10^{-4}T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}.$		2-Hydroxyethyl pivalate	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 308.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	146.550 K	Temperature range 270 to 370 K. Equation only.	
Molecular Weight 98.1876		$C_p = 15.79 + 1.337T - 0.0011977T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}.$	
Wiswesser Line Notation L6TJ A1		Molecular Weight 146.1858	
Evaluation A		Wiswesser Line Notation Q2OVX1&1&1	
		Evaluation C	
C₇H₁₄ (liq)	88SHI/OGA2	C₇H₁₆ (liq)	76FIN/MES
Methylcyclohexane		3,3-Dimethylpentane	
Heat Capacity 298.15 K,	$C_p = 184.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 214.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		Temperature range 10 to 400 K.	
Molecular Weight 98.1876		Entropy 298.15 K,	$S = 305.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation L6TJ A1		Phase Changes	
Evaluation A		c,II/c,I	132.7 K,
			$\Delta H = 793.7 \text{ J}\cdot\text{mol}^{-1}$
C₇H₁₄O (liq)	87MIL/FEN2		$\Delta S = 5.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
3-Methylhexanal		c,II/liq	138.20 K,
Heat Capacity 323.15 K,	$C_p = 245.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 7642.5 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 323.15 to 428.15 K.			$\Delta S = 55.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 114.1870		c,I/liq	138.75 K,
Wiswesser Line Notation VH1Y3			$\Delta H = 6846.3 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 49.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 100.2034	
C₇H₁₄O (liq)	87MIL/FEN2	Wiswesser Line Notation 2X2&1&1	
3,4-Dimethylpentanal		Evaluation A	
Heat Capacity 323.15 K,	$C_p = 235.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆ (liq)	76FIN/MES
Temperature range 323.15 to 428.15 K.		2,3-Dimethylpentane	
Molecular Weight 114.1870		Heat Capacity 298.15 K,	$C_p = 218.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation VH1YY		Temperature range 10 to 400 K.	
Evaluation A		Entropy 298.15 K,	$S = 297.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 100.2034	
		Wiswesser Line Notation 2Y1&Y1&1	
		Evaluation A	
		$T(\text{glass}) = 82.6 \text{ K}.$	

C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298 K, One temperature. C_p given as 0.532 cal/deg/gram. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation B	37VOL $C_p = 223.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 300 K, Temperature range 220 to 380 K. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation A	83TAN/ZHO $C_p = 225.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, Temperature range 10 to 370 K. $C_{\text{sat}}(\text{liq}) = 56.582 - 0.14490T + 5.7813 \times 10^{-4}T^2 - 4.1667 \times 10^{-7}T^3 \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/liq 182.55 K, Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation A	61MCC/MES $C_p = 224.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14037 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 76.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, One temperature. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation B	84GRO/ING $C_p = 224.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, Temperature range 182 to 312 K. $C_p = 866.18820 - 9.9628490T + 0.054561085T^2 - 0.00013079634T^3 + 1.1957392 \times 10^{-7}T^4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Phase Changes c,l/liq 182.586 K Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation A	75HOL/ZIE $C_p = 224.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, One temperature. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation A	84ROU/GRO $C_p = 224.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation A	76FOR/BEN2 $C_p = 224.707 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, One temperature. Molecular Weight 116.2028 Wiswesser Line Notation Q7 Evaluation C	88SHI/OGA $C_p = 224.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 297.860 K, Temperature range 185 to 300 K. Unsmoothed experimental datum. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation B	80KAL/JED $C_p = 224.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆O (liq) 1-Heptanol Heat Capacity 298.15 K Molecular Weight 116.2028 Wiswesser Line Notation Q7 Evaluation A	84ZEG/SOM $C_p = 273.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298.15 K, One temperature. Molecular Weight 100.2034 Wiswesser Line Notation 7H Evaluation B	81GRO/ING $C_p = 224.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₆O (liq) 1-Heptanol Heat Capacity 298.15 K Molecular Weight 116.2028 Wiswesser Line Notation Q7 Evaluation A	89VES/BAR $C_p = 270.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₇H₁₆ (liq) <i>n</i> -Heptane Heat Capacity 298 K, Molecular Weight 100.2034 Temperature range 298, 323, 363 K. Wiswesser Line Notation 7H Evaluation B	82ZAR $C_p = 224.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₇H₁₇NSi (liq) N-(β -Trimethylsilylethyl)ethylenimine Heat Capacity 300 K, Temperature range 6 to 300 K. Entropy 300 K, Phase Changes c/liq 176.54 K, Molecular Weight 143.3035 Wiswesser Line Notation T3NTJ A2-SI-1&1&1 Evaluation A $T(\text{glass}) = 124.0 \text{ K}$.	75LEB/TSV $C_p = 300.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 406.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10623 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₇H₁₇NSi)_n (liq) Poly-N-(β -trimethylsilylethyl)ethylenimine Heat Capacity 300 K, Temperature range 6 to 300 K. Entropy 300 K, Molecular Weight 143.3035 Wiswesser Line Notation /*2N*2-SI-1&1&1/ Evaluation A $T(\text{glass}) = 207.5 \text{ K}$.	75LEB/TSV $C_p = 287.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 294.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₇H₂₀Si₂ (c)	75GUS/KAR	C₈H₄N₂ (c)	82KAR/SHV
Hexamethyldisilylmethane		1,2-Dicyanobenzene; <i>o</i> -Phthalonitrile	
Heat Capacity 298.15 K,	$C_p = 357.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 161.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 300 K.		Temperature range 13 to 480 K.	
Data given graphically.		Entropy 298.15 K,	$S = 192.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 515.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c/liq 414.0 K,	$\Delta H = 20000 \text{ J}\cdot\text{mol}^{-1}$
c/liq 140.70 K,	$\Delta H = 11113 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 48.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 78.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 128.1330	
liq/g 460.58 K,	$\Delta H = 40250 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation NCR BCN	
	$\Delta S = 98.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Molecular Weight 160.4060		C₈H₄N₂ (c)	84RAB/KAR
Wiswesser Line Notation 1-SI-1&1&1-SI-1&1&1		1,2-Dicyanobenzene; <i>o</i> -Phthalonitrile	
Evaluation B		Heat Capacity 298.15 K,	$C_p = 161.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 13 to 500 K.	
C₇H₂₀Si₂ (liq)	82GUS/KAR	Entropy 298.15 K,	$S = 192.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Hexamethyldisilylmethane		Phase Changes	
Heat Capacity 298.15 K,	$C_p = 357.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 414.0 K,	$\Delta H = 20000 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 12 to 300 K.			$\Delta S = 48.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 515.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 128.1330	
Phase Changes		Wiswesser Line Notation NCR BCN	
c/liq 140.70 K,	$\Delta H = 11113 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 78.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₄N₂ (c)	88LEB/BYK
Molecular Weight 160.4060		1,4-Dicyanobenzene; Terephthalodinitrile	
Wiswesser Line Notation 1-SI-1&1&1-SI-1&1&1		Heat Capacity 298.15 K,	$C_p = 161.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Temperature range 0 to 330 K.	
		Entropy 298.15 K,	$S = 183.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₆D₆ (liq)	85LEB/LEB	Molecular Weight 128.1330	
Styrene- <i>d</i> ₆		Wiswesser Line Notation NCR DCN	
Heat Capacity 298.15 K,	$C_p = 201.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
One temperature.		C₈H₄O₃ (c)	87BUS/MAS
Phase Changes		Phthalic anhydride	
c/liq 243.74 K,	$\Delta H = 10800 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity 298.15 K,	$C_p = 160.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 44.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 13 to 350 K.	
Molecular Weight 112.2144		Entropy 298.15 K,	$S = 180.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 1U1R &1/3/4/H-2 8		Molecular Weight 148.1178	
Evaluation B		Wiswesser Line Notation T56 BVOVJ	
		Evaluation A	
(C₈D₈)_n (gls)	83LEB/SMI	C₈H₅Ag (c)	80BYK/KIP
Polystyrene- <i>d</i> ₈		Silver phenylacetylenide	
Heat Capacity 298.15 K,	$C_p = 154.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 156.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 7 to 330 K.		Temperature range 5 to 330 K.	
Entropy 298.15 K,	$S = 154.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 199.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 112.2144		Molecular Weight 208.9955	
Wiswesser Line Notation /*YR&1*/ &1/2-BCDEF/4/H-2 8		Wiswesser Line Notation -AG-1UU1R	
Evaluation A		Evaluation A	
(C₈H₃D₅)_n (gls)	83LEB/SMI	C₈H₅Cu (c)	79LEB/BYK
Polystyrene- <i>d</i> ₅		Copper phenylacetylenide	
Heat Capacity 298.15 K,	$C_p = 146.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 154.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 7 to 330 K.		Temperature range 11 to 330 K.	
Entropy 298.15 K,	$S = 150.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 109.1907		Molecular Weight 164.6735	
Wiswesser Line Notation /*YR&1*/ &2-BCDEF/H-2 5		Wiswesser Line Notation -CU-1UU1R	
Evaluation A		Evaluation A	
C₈H₄Cl₂O₂ (c)	79KAR/SAP	C₈H₅Cu (c)	82BYK/LEB
Terephthaloyl chloride		Copper phenylacetylenide	
Heat Capacity 298.15 K,	$C_p = 207.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 154.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 60 to 298 K.		Temperature range 5 to 330 K.	
Entropy 298.15 K,	$S = 226.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 203.0244		Molecular Weight 164.6735	
Wiswesser Line Notation GVR DVG		Wiswesser Line Notation -CU-1UU1R	
Evaluation A		Evaluation A	

(C₈H₅D₃)_n (gls)	83LEB/SMI	C₈H₈ (liq)	43GUT/WES
Polystyrene- <i>d</i> ₃		Styrene	
Heat Capacity 298.15 K,	$C_p = 139.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 237.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 7 to 330 K.		Phase Changes	
Entropy 298.15 K,	$S = 143.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 242.47 K,	$\Delta H = 10950 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 107.1749			$\Delta S = 45.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation /*YR&1*/ &3/6/H-2 3		Molecular Weight 104.1512	
Evaluation A		Wiswesser Line Notation 1U1R	
		Evaluation A	
C₈H₅MnO₃ (c)	83CHH/POM	C₈H₈ (liq)	85LEB/LEB
Cymantrene; Cyclopentadienyl manganese tricarbonyl		Styrene	
Heat Capacity 298.15 K,	$C_p = 214.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 183.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 300 K.		One temperature.	
Entropy 298.15 K,	$S = 259.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Phase Changes		c/liq 242.47 K,	$\Delta H = 10950 \text{ J}\cdot\text{mol}^{-1}$
c,II/c,I 75 to 135 K,	$\Delta S = <1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 45.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
"Abnormally" high heat capacity.		Molecular Weight 104.1512	
c/liq 350 K,	$\Delta H = 19300 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 1U1R	
	$\Delta S = 55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 204.0637			
Wiswesser Line Notation L5ØJ Ø-MN- -CO 3			
Evaluation A			
C₈H₆ (liq)	82LEB/BYK	(C₈H₈)_n (gls)	83LEB/SMI
Phenylacetylene		Polystyrene	
Heat Capacity 298.15 K,	$C_p = 180.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 127.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 13.8 to 480 K.		Temperature range 7 to 330 K.	
Entropy 298.15 K,	$S = 221.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 134.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 104.1512	
c/liq 228.04 K,	$\Delta H = 9460 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation /*YR&1*/	
	$\Delta S = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 102.1354		C₈H₉N₂O₂	82CUE/SOL
Wiswesser Line Notation 1UU1R		Isonitrosoacetanilide	
Evaluation A		Phase Changes	
		c/liq 448 K,	$\Delta H = 10400 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 23.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 164.1634	
		Wiswesser Line Notation QNU1VMR	
		Evaluation D	
C₈H₆O (liq)	86CHI/NGU	C₈H₆O (liq)	86CHI/NGU
2,3-Benzofuran		4,5-Dihydro-2,3-benzofuran	
Heat Capacity 298.15 K,	$C_p = 178.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 188.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 450 K.		Temperature range 10 to 450 K.	
Entropy 298.15 K,	$S = 215.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 226.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 232.000 K		c/liq 250.890 K	
c,I/liq 245.482 K		Molecular Weight 120.1506	
Molecular Weight 118.1348		Wiswesser Line Notation T56 BOT&J	
Wiswesser Line Notation T56 BOJ		Evaluation A	
Evaluation A			
C₈H₇ClN₂O₂ (c)	82CUE/SOL	C₈H₉NO (c)	86NIL/WAD2
2-Chloroisnitrosoacetanilide		Acetanilide	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 179.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 429 K,	$\Delta H = 29700 \text{ J}\cdot\text{mol}^{-1}$	One temperature.	
	$\Delta S = 69.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 135.1652	
Molecular Weight 198.6085		Wiswesser Line Notation 1VMR	
Wiswesser Line Notation QVU1VMR BG		Evaluation B	
Evaluation D			
C₈H₇N (c)	81LEB/RYA	C₈H₉NO₃ (c)	81LEB/RYA
Indole; 1-Benzo[b]pyrrole		<i>p</i> -Nitrophenetole; <i>p</i> -Nitroethoxybenzene	
Heat Capacity	$C_p = 192.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity	$C_p = 246.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 318 K.		Temperature range 298 to 328 K.	
Data given over temperature range.		Data given over temperature range.	
Molecular Weight 117.1500		Molecular Weight 167.1640	
Wiswesser Line Notation T56 BMJ		Wiswesser Line Notation WNR DO2	
Evaluation B		Evaluation B	

C₈H₁₀ (liq) 1,4-Dimethylbenzene; <i>p</i> -Xylene Heat Capacity 298.15 K, One temperature. Molecular Weight 106.1670 Wiswesser Line Notation 1R D1 Evaluation B	86TAR/AIC $C_p = 183.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₀O (c) 2,5-Dimethylphenol Phase Changes c/liq 348.0 K, Molecular Weight 122.1664 Wiswesser Line Notation QR B1 E1 Evaluation A	82POE/FAN $\Delta H = 23376 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 67.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₀ (liq) 1,4-Dimethylbenzene; <i>p</i> -Xylene Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c/liq 286.405 K, Molecular Weight 106.1670 Wiswesser Line Notation 1R D1 Evaluation A	88MES/FIN $C_p = 182.219 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 247.154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 17117.46 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 59.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₀O (c) 2,6-Dimethylphenol Phase Changes c/liq 318.9 K, Molecular Weight 122.1664 Wiswesser Line Notation QR B1 F1 Evaluation A	82POE/FAN $\Delta H = 18897 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 59.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₀N₄O₂ (c) Caffeine Heat Capacity 298 K, Temperature range 300 to 392 K. Unsmoothed experimental data and equation given. $C_p = 41.4 + 0.104(T-298) \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Data given at 298 K is an extrapolation by the author. Phase Changes c,II/c,I 426 K, α to β form. c,I/liq 512 K, β to liquid. Molecular Weight 194.1926 Wiswesser Line Notation T56 BN DN FNVNVJ B1 F1 H1 Evaluation B Data given for β form. β form is obtained by high temperature sublimation.	80CES/STA $C_p = 173.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 940 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₀O (c) 3,4-Dimethylphenol Phase Changes c/liq 334.0 K, Molecular Weight 122.1664 Wiswesser Line Notation QR C1 D1 Evaluation A	82POE/FAN $\Delta H = 18127 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₀O (liq) Ethyl phenyl ether Heat Capacity 298.15 K, One temperature. Molecular Weight 122.1664 Wiswesser Line Notation 2OR Evaluation B	75FEN/HAR $C_p = 228.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₀O (c) 3,5-Dimethylphenol Phase Changes c/liq 336.8 K, Molecular Weight 122.1664 Wiswesser Line Notation QR C1 E1 Evaluation A	82POE/FAN $\Delta H = 17997 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 53.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₀O (c) 2,3-Dimethylphenol Phase Changes c/liq 346.0 K, Molecular Weight 122.1664 Wiswesser Line Notation QR B1 C1 Evaluation A	82POE/FAN $\Delta H = 21024 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₀O₃ (c) <i>cis</i> -Cyclohexane-1,2-dicarboxylic anhydride Heat Capacity 298.15 K, Temperature range 12 to 330 K. Entropy 298.15 K, Phase Changes c,III/c,II 304 K, Conformational transition. c,II/c,I 310.5 K, Conformational transition. Molecular Weight 154.1652 Wiswesser Line Notation T56 BVOVTJ-C Evaluation A	83GEI/NUR $C_p = 207.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 202.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5594 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 18.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 845 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₀O (c) 2,4-Dimethylphenol Phase Changes c/liq 299.0 K Molecular Weight 122.1664 Wiswesser Line Notation QR B1 D1 Evaluation A	82POE/FAN	C₈H₁₁N (liq) 2,6-Dimethylaniline Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Phase Changes c/liq 284.598 K Molecular Weight 121.1816 Wiswesser Line Notation ZR B1 F1 Evaluation A	86STE/CHI $C_p = 238.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 251.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₈H₁₂ (liq) 75LEB/LEB Cycloocta-1,5-diene Heat Capacity 298.15 K, $C_p = 198.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 6 to 320 K. Entropy 298.15 K, $S = 250.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 194.3 K, $\Delta H = -393 \text{ J}\cdot\text{mol}^{-1}$ c,I/liq 203.983 K, $\Delta H = 9828 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 108.1828 Wiswesser Line Notation L8 AU EUTJ Evaluation A	C₈H₁₄ (liq) 78LEB/LEB Cyclooctene Heat Capacity 298.15 K, $C_p = 207.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 8 to 330 K. Entropy 298.15 K, $S = 254.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,III/c,II 100 K Glass transition. c,II/c,I 190 K, $\Delta H = 635 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 259.15 K, $\Delta H = 1813 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 110.1986 Wiswesser Line Notation L8UTJ Evaluation A
C₈H₁₂N₂O₂ (liq) 83BYK/LEB2 1,6-Hexamethylene diisocyanate; 1,6-Diisocyanatohexane Heat Capacity 298.15 K, $C_p = 294.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 0 to 330 K. Phase Changes c/liq 206.06 K, $\Delta H = 18640 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 90.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 136.1962 Wiswesser Line Notation OCN6NCO Evaluation A	(C₈H₁₄)_n (c) 78LEB/LEB Polyoctenylene Heat Capacity 298.15 K, $C_p = 198.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 8 to 330 K. Entropy 298.15 K, $S = 203.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 180 K, $\Delta H = 6336 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 35.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Glass transition. c,I/liq 308 K, $\Delta H = 16760 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 110.1986 Wiswesser Line Notation /L8TJ A* B*/ Evaluation A
C₈H₁₂N₂O₂ (liq) 85LEB/BYK2 1,6-Hexamethylene diisocyanate; 1,6-Diisocyanatohexane Heat Capacity 298.15 K, $C_p = 294.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 5 to 300 K. Entropy 298.15 K, $S = 420.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 206.064 K, $\Delta H = 18640 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 90.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 168.1950 Wiswesser Line Notation OCN6NCO Evaluation A	C₈H₁₄O (liq) 88BAG/GUR 6-Methyl-5-hepten-2-one Heat Capacity 298.35 K, $C_p = 268.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 126.1980 Wiswesser Line Notation 1YU3V1 Evaluation B
(C₈H₁₂N₂O₂)_n (gls) 85LEB/BYK2 1,6-Hexamethylene diisocyanate polycyclotrimer Heat Capacity 298.15 K, $C_p = 222.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 5 to 300 K. Entropy 298.15 K, $S = 242.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 168.1950 Wiswesser Line Notation /T6NVNVNVJ A6NV*& C6NV*& E6NV*&/ 1/3 Evaluation A $T(\text{glass}) = 334 \text{ K}$.	C₈H₁₄O₂ (liq) 85KAR/ABD Butyl methacrylate Heat Capacity 298.15 K, $C_p = 273.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 196 to 350 K. $C_p (\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 1344.3 + 1.9467 T$ C_p data calculated from equation. Phase Changes c/liq 196.8 K Molecular Weight 142.1974 Wiswesser Line Notation 4OVY1&U1 Evaluation B
C₈H₁₂N₄ (c) 81LEB/RYA 2,2'-Azodiisobutyrodinitrile; Dinitrile-2,2'-azodiisobutyric acid Heat Capacity 298.12 K, $C_p = 238.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 296 to 334 K. Molecular Weight 164.2096 Wiswesser Line Notation NCX1&1&NUNX1&1&CN Evaluation B	C₈H₁₄O₂ (liq) 85KAR/ABD2 Butyl methacrylate Phase Changes c/liq 196.8 K, $\Delta H = 13947 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 70.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 142.1974 Wiswesser Line Notation 4OVY1&U1 Evaluation A
C₈H₁₂N₄ (c) 84LEB/GUT 2,2'-Azodiisobutyrodinitrile; Dinitrile-2,2'-azodiisobutyric acid Heat Capacity 298 K, $C_p = 237.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 296 to 335 K. Phase Changes c/liq 378 K Molecular Weight 164.2096 Wiswesser Line Notation NCX1&1&NUNX1&1&CN Evaluation B ΔH sublimation = $76600 \text{ J}\cdot\text{mol}^{-1}$; temperature range: 288 to 313 K.	C₈H₁₄O₄ (liq) 86NIL/WAD Ethyleneglycol dipropionate Heat Capacity 298.15 K, $C_p = 331.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 174.1962 Wiswesser Line Notation 2VO2OV2 Evaluation A

C₈H₁₅NO₂ (liq) Dimethylaminoethyl methacrylate Phase Changes c/liq 237.7 K, Molecular Weight 157.2120 Wiswesser Line Notation 1UY1&VO2N1&1 Evaluation A	85KAR/ABD2 $\Delta H = 16852 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 70.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₆O₂ (liq) Isoamyl propionate Heat Capacity 298.15 K, Temperature range 205 to 348 K. Unsmoothed experimental datum. Interpolated to 298.15 K. Molecular Weight 144.2132 Wiswesser Line Notation 2VO2Y Evaluation C	84GUS/SHU $C_p = 285.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₅O₂Tl (c) Thallium octanoate Phase Changes liq/liq 494 K, Mesophase-isotropic. c,l/liq 403 K, Solid-mesophase. Molecular Weight 347.5753 Wiswesser Line Notation OV7 .TL Evaluation B	76MEI/SEY $\Delta H = 2720 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4686 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₆O₂ (liq) Butyl butanoate Heat Capacity 300 K, Temperature range 180 to 370 K. Phase Changes c/liq 181.68 K, Molecular Weight 144.2132 Wiswesser Line Notation 4OV3 Evaluation A	84VAS/PET $C_p = 281.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14930 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 82.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₆ (liq) Cyclooctane Heat Capacity 298.15 K, One temperature. Molecular Weight 112.2144 Wiswesser Line Notation L8TJ Evaluation A	88SHI/OGA2 $C_p = 215.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₆O₂ (liq) Amyl propionate; Pentyl propionate Heat Capacity 277.11 K, Temperature range 200 to 360 K. Unsmoothed experimental datum. C_p given as $1.661 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 144.2132 Wiswesser Line Notation 5OV2 Evaluation B	83GUS/KLI $C_p = 239.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₆O (liq) Octanal; Caprylaldehyde Heat Capacity Temperature range 50 to 350 K. Phase Changes c,l/liq 247.72 K, 98.01 mol% purity. Molecular Weight 128.2138 Wiswesser Line Notation VH7 Evaluation B Manuscript deposited in Cent. Sci. Res. Inst. Tech. Eng. Petrochemicals, July 27, 1979.	80DYA/VAS $\Delta H = 25860 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 104.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₆O₂ (liq) Amyl propionate; Pentyl propionate Heat Capacity 298.15 K, Temperature range 205 to 348 K. Unsmoothed experimental datum. Interpolated to 298.15 K. Molecular Weight 144.2132 Wiswesser Line Notation 5OV2 Evaluation C	84GUS/SHU $C_p = 245.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₆O (liq) Octanal; Caprylaldehyde Entropy 298.15 K, Phase Changes c/liq Molecular Weight 128.2138 Wiswesser Line Notation VH7 Evaluation B	82DYA/VAS $S = 365.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 26130 \text{ J}\cdot\text{mol}^{-1}$	C₈H₁₆O₂ (liq) Hexyl ethanoate Heat Capacity 300 K, Temperature range 210 to 370 K. Phase Changes c/liq 212.10 K, Molecular Weight 144.2132 Wiswesser Line Notation 6OV1 Evaluation A	84VAS/PET $C_p = 282.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 19830 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 93.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₆O (liq) Octanal; Caprylaldehyde Heat Capacity 298.15 K, Temperature range 10 to 350 K. Entropy 298.15 K, Phase Changes c/liq 247.72 K Molecular Weight 128.2138 Wiswesser Line Notation VH7 Evaluation A	84VAS/PET $C_p = 259.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 365.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₆S (liq) 1-Octanethiol; <i>n</i> -Octyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 282.50 + 3.340 \times 10^{-2}T + 8.582 \times 10^{-5}T^2$. Molecular Weight 144.2744 Wiswesser Line Notation SH8 Evaluation B	82TUT/GAB $C_p = 300.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

$C_8H_{17}NO_2$ (c) 8-Aminooctanoic acid Heat Capacity 298 K, One temperature. Molecular Weight 159.2278 Wiswesser Line Notation Z7VQ Evaluation B	83SKO/SAB $C_p = 251.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation B	81GRO/ING $C_p = 254.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 300 K, Temperature range 300 to 366 K. C_p given as $0.4980 \text{ Btu}(\text{lb})^{-1}(\text{°R})^{-1}$ at 80°F. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation B	50AUE/SAG $C_p = 233.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation B	82ZAR $C_p = 252.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 298.15 K, Temperature range 298.15 to 323.15 K. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation B	74RAJ/SUB $C_p = 237.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation B	84ROU/GRO $C_p = 254.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 298.15 K, Average of three values. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation A	76FOR/BEN2 $C_p = 238.871 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation B	85LAI/GRO $C_p = 254.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation B	88COS/HUU $C_p = 242.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation B	86TAR/AIC $C_p = 255.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation A	88PER/AIC $C_p = 242.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation A	88PER/AIC $C_p = 255.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) Isooctane; 2,2,4-Trimethylpentane Heat Capacity 298.15 K, One temperature. Molecular Weight 114.2302 Wiswesser Line Notation 1Y1&1X1&1&1 Evaluation A	88SHI/OGA $C_p = 239.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_8H_{18}N_2$ (c) 1,1-Dimethylazoethane Phase Changes c,II/c,I 242.6 K c,I//liq 258.6 K Molecular Weight 142.2443 Wiswesser Line Notation 1X1&1&NUNX1&1&1 Evaluation A	80BYS $\Delta H = 4890 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 20.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10280 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_8H_{18} (liq) <i>n</i> -Octane Heat Capacity 298.15 K, Temperature range 65 to 300 K. Molecular Weight 114.2302 Wiswesser Line Notation 8H Evaluation A	80SHA/LYU $C_p = 252.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_8H_{18}N_2O$ (c) 1,1-Dimethylazoxyethane Phase Changes c,II/c,I 268.0 K c,I//liq 288.4 K Molecular Weight 158.2437 Wiswesser Line Notation 1X1&1&NO&UNX1&1&1 Evaluation A	80BYS $\Delta H = 8340 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 31.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11520 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₈H₁₈N₂O₂ (c) Bis-hydroxyethylpiperazine Heat Capacity 298 K, Temperature range 293 to 311 K. Phase Changes c/liq 405 K, liq/g 551 K Molecular Weight 174.2424 Wiswesser Line Notation T6N DNTJ A2Q D2Q Evaluation B ΔH sublimation = 104100 J·mol ⁻¹ , temperature range: 334 to 356 K.	84LEB/GUT $C_p = 250.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 25900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₈O₃ (liq) 2-(2-Butoxyethoxy)ethanol Heat Capacity 298.15 K, One temperature. Average of two measurements. Molecular Weight 162.2284 Wiswesser Line Notation Q2O2O4 Evaluation B	87COB/CAS $C_p = 354.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) Di- <i>tert</i> -butyl ether; 2,2,4,4-Tetramethyl-3-oxapentane Heat Capacity 298.15 K, One temperature. Molecular Weight 130.2296 Wiswesser Line Notation 1X1&1&OX1&1&1 Evaluation B	75FEN/HAR $C_p = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₈O₅ (liq) Tetraethylene glycol Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 194.2272 Wiswesser Line Notation Q2O2O2O2Q Evaluation B	82ZAR $C_p = 428.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) Di- <i>n</i> -butyl ether Heat Capacity 298.15 K, One temperature. Average of two measurements. Molecular Weight 130.2296 Wiswesser Line Notation 4O4 Evaluation B	87COB/CAS $C_p = 278.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₉N (liq) Diisobutyl amine Heat Capacity Temperature range 294.15 to 403.15 K. Heat capacity is an average value over the temperature range. Molecular Weight 129.2448 Wiswesser Line Notation 2YMY2 Evaluation D	01KAH $C_p = 129.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) 2-Ethylhexanol Heat Capacity 298.15 K, Temperature range 13 to 350 K. Entropy 298.15 K, Molecular Weight 130.2296 Wiswesser Line Notation Q1Y4&2 Evaluation A	87BUS/MAS $C_p = 317.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 347.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(C₈H₁₉NSi)_n (liq) Poly-N-(β -trimethylsilylethyl)azetidine Heat Capacity 298 K, Temperature range 65 to 305 K. Deposited in VINITI, No. 3786-75, 26 December 1975. Entropy 298 K, Molecular Weight 157.3303 Wiswesser Line Notation /*3N*2-SI-1&1&1/ Evaluation B $T(\text{glass}) = 204.0 \text{ K}$.	76LEB/EVS $C_p = 318.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 315.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) Isooctyl alcohol; 2-Methyl-1-heptanol Heat Capacity 303.15 K, Temperature range 293.15 to 353.15 K. C_p given as 2517 J·kg ⁻¹ ·K ⁻¹ . Molecular Weight 130.2296 Wiswesser Line Notation Q1Y5&1 Evaluation C	78RYB/EME $C_p = 327.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₉NSi (liq) N-(β -Trimethylsilylethyl)trimethylenimine Heat Capacity 298.15 K, Temperature range 7 to 305 K. Entropy 298.15 K, Phase Changes c/liq 199.43 K, Molecular Weight 157.3303 Wiswesser Line Notation T4NTJ A2-SI-1&1&1 Evaluation A $T(\text{glass}) = 126.7 \text{ K}$.	77LEB/RAB5 $C_p = 304.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 398.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) 1-Octanol; <i>n</i> -Octyl alcohol; Capryl alcohol Heat Capacity 298.15 K, One temperature. Molecular Weight 130.2296 Wiswesser Line Notation Q8 Evaluation C	84ZEG/SOM $C_p = 305.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₈H₁₉Cl₂NSiZn (liq) N-(β -Trimethylsilylethyl)azetidide, zinc chloride complex Heat Capacity 298.15 K, Temperature range 60 to 300 K. Deposited in VINITI, No. 3824-75, 26 December 1975. Entropy 298.15 K, Molecular Weight 312.7758 Wiswesser Line Notation T4NTJ A2-SI-1&1&1 &.ZN..G2 Evaluation B Complex assumed 1:1.	76EVS/LEB $C_p = 607.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 575.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₈H₁₈O (liq) 1-Octanol; <i>n</i> -Octyl alcohol; Capryl alcohol Heat Capacity 298.15 K One temperature. Molecular Weight 130.2296 Wiswesser Line Notation Q8 Evaluation A	89VES/BAR $C_p = 304.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

$C_8H_{19}Cl_2NSiZn_n$ (liq) Poly-N-(β -Trimethylsilylethyl)azetidene, zinc chloride complex Heat Capacity 298.15 K, $C_p = 568.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 60 to 300 K. Deposited in VINITI, No. 3824-75, 26 December 1975. Entropy 298.15 K, $S = 542.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 312.7758 Wiswesser Line Notation /*3N*2-SI-1&1&1 &.ZN..G2/ Evaluation B Complex assumed 1:1.	76EVS/LEB	$C_8H_{20}N_4$ (liq) N-[2-Aminoethyl]2-aminoethyl]piperazine Heat Capacity 333 K, $C_p = 391 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature Range 333 to 473 K Molecular Weight 172.2728 Wiswesser Line Notation T6M DNTJ D2M2Z Evaluation D	88BOB/KAM
$C_8H_{20}Br_4FeN$ (c) Tetraethylammonium tetrabromo ferrate Heat Capacity 298.15 K, $C_p = 369.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 50 to 300 K. Entropy 298.15 K, $S = 415.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 236.1 K, $\Delta H = 2428 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 505.7157 Wiswesser Line Notation 2K2&2&2 .FE G4 Evaluation A	88NAV/PUE	$C_8H_{20}N_4$ (liq) N,N'-Di-(2-aminoethyl)piperazine Heat Capacity 333 K, $C_p = 407 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 333 to 473 K Molecular Weight 172.2728 Wiswesser Line Notation T6N DNTJ A2Z D2Z Evaluation D	88BOB/KAM
$C_8H_{20}Cl_4FeN$ (c) Tetraethylammonium tetrachloro ferrate Heat Capacity 298.15 K, $C_p = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 1.4 to 300 K. Entropy 298.15 K, $S = 490.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,V/c,IV 2.93 K Neel point, lambda transition. c,IV/c,III 234.7 K, $\Delta H = 2203 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ First order transition. c,III/c,II 217.5 K c,II/c,I 226.6 K, $\Delta H = 2295 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ First order transition. Molecular Weight 327.9117 Wiswesser Line Notation 2K2&2&2 .FE G4 Evaluation A	88NAV/PUE	$C_8H_{20}Pb$ (liq) Tetraethyl lead Phase Changes c/liq 142.94 K, $\Delta H = 8791 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 323.4460 Wiswesser Line Notation 2-PB-2&2&2 Evaluation B	54STA/WAR
$C_8H_{20}Cl_4FeN$ (c) Tetraethylammonium tetrachloro ferrate Heat Capacity 298.15 K, $C_p = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 1.4 to 300 K. Entropy 298.15 K, $S = 490.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,V/c,IV 2.93 K Neel point, lambda transition. c,IV/c,III 234.7 K, $\Delta H = 2203 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ First order transition. c,III/c,II 217.5 K c,II/c,I 226.6 K, $\Delta H = 2295 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ First order transition. Molecular Weight 327.9117 Wiswesser Line Notation 2K2&2&2 .FE G4 Evaluation A	88NAV/PUE	$C_8H_{20}Pb$ (liq) Tetraethyllead Heat Capacity 298.15 K, $C_p = 307.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature Range 5-315 K. Entropy 298.15 K, $S = 464.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,III/liq 90.8 K Glass/supercooled liquid transition c,II/liq 141.4 K, $\Delta H = 9110 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9091 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 323.4460 Wiswesser Line Notation 2-PB-2&2&2 Evaluation A	89RAB/NIS2
$C_8H_{20}Ge$ (liq) Tetraethylgermane Phase Changes c/liq 180.47 K, $\Delta H = 12406 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 68.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 188.8360 Wiswesser Line Notation 2-GE-2&2&2 Evaluation B	54STA/WAR	$C_8H_{20}Si$ (liq) Tetraethyl silicon Phase Changes c/liq 189.36 K, $\Delta H = 13012 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 68.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 144.3315 Wiswesser Line Notation 2-SI-2&2&2 Evaluation B	54STA/WAR
$C_8H_{20}Ge$ (liq) Tetraethyl germane Heat Capacity 298.15 K, $C_p = 294.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 8 to 300 K. Entropy 298.15 K, $S = 428.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 179.99 K, $\Delta H = 12312 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 68.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 188.8360 Wiswesser Line Notation 2-GE-2&2&2 Evaluation A	85RAB/SHE	$C_8H_{20}Sn$ (liq) Tetraethyl tin Phase Changes c/liq 142.14 K, $\Delta H = 9146 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 234.9360 Wiswesser Line Notation 2-SN-2&2&2 Evaluation B	54STA/WAR
$C_8H_{24}Ag_{13}I_{15}N_2$ (c) Bis-(tetramethylammonium iodide) tridecasilver iodide Heat Capacity 282.93 K, $C_p = 1076 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 79 to 283 K. Unsmoothed experimental datum. Phase Changes c,II/c,I 150 K, $\Delta S = 5.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 3454.1425 Wiswesser Line Notation 1K1&1&1&1 2 .AG I 13 Evaluation A	85LIN/ARM		

C₈H₂₄Cl₄FeN₂ (c)	88RUI/LOP	C₈H₂₈Ni₄Si (c)	81MEK/KAR
Tetramethylammonium tetrachloroferrate		Octamethyltetrasilazane	
Heat Capacity 300 K,	$C_p = 424 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 569.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 60 to 350 K.		Temperature range 13 to 390 K.	
Data given graphically.		Data given graphically.	
C_p datum is graphical estimate.		Entropy 298.15 K,	$S = 599.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,IV/c,III 240.0 K,	$\Delta H = 859.6 \text{ J}\cdot\text{mol}^{-1}$	c/liq 367.67 K,	$\Delta H = 25050 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 3.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 266.8 K,	$\Delta H = 238.5 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 0.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 387.1947	
c,II/c,I 281.0 K,	$\Delta H = 2179.9 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation T8-SI-M-SI-M-SI-M-SI-	
	$\Delta S = 8.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	MTJ A1 A1 C1 C1 E1 E1 G1 G1	
Molecular Weight 345.9500			
Wiswesser Line Notation 1K1&1&1 2 .FE G4			
Evaluation B			
C₈H₂₄Cl₄MnN₂ (c)	75BOC/ARR	C₉H₆CrO₃ (c)	78POM/CHH
Tetrachlorobis-(butylammonium) manganese II		Benzene chromium tricarbonyl	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 151.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 371 K,	$\Delta H = 2.4 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 120 to 300 K.	
	$\Delta S = 0.007 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Data given graphically.	
		$C_p = 38.17 + 2.37 \times 10^{-1} T +$	
		$3.77 \times 10^{-4} T^2 + 3.38 \times 10^{-7} T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (120 to 300 K).	
		C_p value calculated from equation.	
Molecular Weight 345.0410		Molecular Weight 214.1406	
Wiswesser Line Notation 4ZH 2 .MN G4		Wiswesser Line Notation L6ØJ Ø-CR-- CO 3	
Evaluation A		Evaluation C (C_p), A (Phase changes)	
C₈H₂₄Cl₄MnN₂ (c)	88ZUB/LOP	C₉H₇Cu (c)	82BYK/LEB
Tetramethylammonium tetrachloromanganate		Copper benzylacetylenide	
Heat Capacity 300 K,	$C_p = 424 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 178.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 50 to 330 K.		Temperature range 5 to 330 K.	
Data given graphically and estimated from graph.		Entropy 298.15 K,	$S = 197.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 178.7003	
c,V/c,IV 175.63 K,	$\Delta H = 308 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation -CU-1UU1R	
	$\Delta S = 1.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
c,IV/c,III 268.65 K,	$\Delta H = 233 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 0.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₇N (liq)	86STE/CHI
c,III/c,II 292.3 K,	$\Delta H = 5.8 \text{ J}\cdot\text{mol}^{-1}$	Quinoline	
	$\Delta S = 0.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 194.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 292.6 K,	$\Delta H = 2079 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 6 to 450 K.	
	$\Delta S = 7.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 219.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
Molecular Weight 345.0410		c,II/c,I 220.093 K	
Wiswesser Line Notation 1K1&1&1 2 .MN G4		c,I/liq 238.369 K	
Evaluation A		Molecular Weight 129.1610	
		Wiswesser Line Notation T66 BNJ	
C₈H₂3N₅ (liq)	88BOB/KAM	Evaluation A	
Tetraethylenepentamine		C₉H₇N (liq)	88STE/ARC
Heat Capacity 333 K,	$C_p = 460 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Quinoline	
Temperature Range 333 to 513 K.		Heat Capacity 298.15 K,	$C_p = 194.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 189.3032		Temperature range 5 to 500 K.	
Wiswesser Line Notation Z2M2M2M2Z		Entropy 298.15 K,	$S = 219.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation D		Phase Changes	
C₈H₂₄Si₄O₄ (liq)	81MEK/KAR	c,II/c,I 220.000 K,	$\Delta H = 68.18 \text{ J}\cdot\text{mol}^{-1}$
Octamethyltetrasiloxane			$\Delta S = 0.310 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 298.15 K,	$C_p = 509.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 258.369 K,	$\Delta H = 10662.90 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 13 to 390 K.			$\Delta S = 41.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Data given graphically.		Molecular Weight 129.1610	
Entropy 298.15 K,	$S = 623.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation T66 BNJ	
Phase Changes		Evaluation A	
c/liq 290.25 K,	$\Delta H = 23765 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 81.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 296.6172			
Wiswesser Line Notation T8-SI-O-SI-O-SI-O-SI-			
OTJ A1 A1 C1 C1 E1 E1 G1 G1			
Evaluation A			

C₉H₇N (liq)	88STE/ARC	C₉H₈MnO₃P (c)	82POI/SOU
Isoquinoline		3,4-Dimethylphosphonyl manganese tricarbonyl; Dimethyl-3,4-phosphacymantrene	
Heat Capacity 298.15 K,	$C_p = 196.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 5 to 500 K. Values calculated from graphically extrapolated heat capacity values.		c,II/c,I 275 K,	$\Delta H = 190 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 215.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 300 K,	$\Delta H = 19300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 250.0722	
c,III/c,II 221.000 K,	$\Delta H = 0.00 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation T5PJ C1 D1 & -MN- CO 3	
c,II/c,I 275.000 K,	$\Delta H = 0.00 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
c,I/liq 299.620 K,	$\Delta H = 13544.17 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 45.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 129.1610			
Wiswesser Line Notation T66 CNJ			
Evaluation A			
C₉H₇N (c)	86STE/CHI	C₉H₈O₂ (c)	86SIN/KUM
Isoquinoline		Cinnamic acid	
Heat Capacity 298.15 K,	$C_p = 177.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 10 to 400 K.		c/liq 406.15 K,	$\Delta H = 22626 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 171.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 148.1610	
Phase Changes		Wiswesser Line Notation QV1UIR	
c,III/c,II 219.600 K		Evaluation A	
c,II/c,I 275.000 K			
c,I/liq 299.616 K			
Molecular Weight 129.1610		C₉H₈O₃ (c)	83GEI/SAL
Wiswesser Line Notation T66 CNJ		Endobicyclo[2.2.1]-5-heptene-2,3-dicarboxylic acid anhydride	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 183.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 12 to 300 K.	
		Entropy 298.15 K,	$S = 189.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 164.1604	
		Wiswesser Line Notation T555/FJ 2AE J BVOV IUTJ	
		Evaluation A	
		There is an extended hump in the C_p curve between 50 and 150 K.	
C₉H₇NO (c)	81LEB/RYA	C₉H₉FeN (c)	84CHH/POM
3-Indole aldehyde		Azaferrocene	
Heat Capacity	$C_p = 220.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 183.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 298 to 458 K.		Temperature range 70 to 290 K.	
Data given over temperature range.		Entropy 298.15 K,	$S = 211.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 145.1604		Phase Changes	
Wiswesser Line Notation T56 BMJ DVH		c,III/c,I' 200 K,	$\Delta H = 3000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		c,II/c,I' 218 K,	$\Delta H = -3800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = -17.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 187.0238	
		Wiswesser Line Notation T5NØJ Ø-FE-- ØL5ØJ	
		Evaluation A	
		Metastable phase.	
C₉H₇O (liq)	86CHI/NGU	C₉H₉FeN (c)	84CHH/POM
Chroman		Azaferrocene	
Heat Capacity 298.15 K,	$C_p = 214.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 177.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 450 K.		Temperature range 10 to 300 K.	
Entropy 298.15 K,	$S = 246.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 170.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 269.836 K		c,III/c,II 278.5 K,	$\Delta H = 650 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 131.1537		c,II/c,I 289.5 K,	$\Delta H = 6748 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 23.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation T66 BOJ		Molecular Weight 187.0238	
Evaluation A		Wiswesser Line Notation T5NØJ Ø-FE-- ØL5ØJ	
		Evaluation A	
		Stable phase.	
C₉H₇O (liq)	86CHI/NGU		
Isochroman			
Heat Capacity 298.15 K,	$C_p = 217.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Temperature range 10 to 450 K.			
Entropy 298.15 K,	$S = 247.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes			
c/liq 277.503 K			
Molecular Weight 131.1537			
Wiswesser Line Notation T66 COJ			
Evaluation A			

C₉H₉FeP (c) Phosphaferrocene Phase Changes c,II/c,I 266 K, $\Delta H = 7330 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 203.9909 Wiswesser Line Notation T5PØJ Ø-FE-- ØL5ØJ Evaluation A Stable phase. A metastable phase transition is reported at $T = 210 \text{ K}$.	84CHH/POM	C₉H₁₀O₂ (liq) Phenyl glycidyl ether Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Phase Changes c/liq 276.79 K Molecular Weight 150.1768 Wiswesser Line Notation T3OTJ B1OR Evaluation A Data also given for the vitreous state from 5 to 189 K, and for the supercooled liquid from 200 to 276.79 K.	88LEB/BYK2 $C_p = 276.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 274.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₀ (liq) α -Methylstyrene Heat Capacity 300 K, Temperature range 60 to 300 K. Entropy 300 K, Phase Changes c/liq 250.78 K, $\Delta H = 11924 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 118.1780 Wiswesser Line Notation 1UY1&R Evaluation B	71LEB/RAB2	C₉H₁₁N (liq) 1,2,3,4-Tetrahydroquinoline Heat Capacity 298.15 K, Temperature range 10 to 440 K. Entropy 298.15 K, Phase Changes c,IV/c,III 61.7 K c,III/c,II 114.75 K c,II/c,I 231.8 K c,I/liq 289.913 K Molecular Weight 133.1926 Wiswesser Line Notation T66 BNT&J Evaluation A	89STE/CHI2 $C_p = 236.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 240.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11813 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 40.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₉H₁₀)_n (c) Poly(α -methylstyrene) Heat Capacity 300 K, Temperature range 60 to 300 K. Entropy 300 K, Molecular Weight 118.1780 Wiswesser Line Notation /*1X*1&R/ Evaluation B	71LEB/RAB2	C₉H₁₁N (liq) 5,6,7,8-Tetrahydroquinoline Heat Capacity 298.15 K, Temperature range 6 to 450 K. Entropy 298.15 K, Phase Changes c/liq 222.634 K Molecular Weight 133.1926 Wiswesser Line Notation T66 BN&TJ Evaluation A	86STE/CHI2 $C_p = 217.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 248.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₀N₂O₃ (c) 2-Methoxyisonitrosoacetanilide Phase Changes c/liq 422 K, $\Delta H = 27800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 194.1896 Wiswesser Line Notation QNU1VMR BO1 Evaluation D	82CUE/SOL	C₉H₁₁N (liq) 5,6,7,8-Tetrahydroquinoline Heat Capacity 298.15 K, Temperature range 5 to 440 K. Entropy 298.15 K, Phase Changes c,III/c,II $T(\text{glass})$ near 160 K Glass to metastable form. c,II/c,I near 210 K First order transition, metastable to stable crystalline form. c,I/liq 222.634 K Molecular Weight 133.1926 Wiswesser Line Notation T66 BN&TJ Evaluation A	89STE/CHI $C_p = 217.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 248.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9071.7 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 40.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₀N₂O₃ (c) 4-Methoxyisonitrosoacetanilide Phase Changes c/liq 459 K, $\Delta H = 8300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 18.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 194.1896 Wiswesser Line Notation QNU1VMR DO1 Evaluation D	82CUE/SOL	C₉H₁₀O₂ (c) Phenylpropionic acid Phase Changes c/liq 321.6 K, $\Delta H = 15564 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 150.1768 Wiswesser Line Notation QV2R Evaluation C	1889EYK
C₉H₁₀O₂ (c) Phenyl glycidyl ether Heat Capacity 298 K, Temperature range 225 to 400 K. Molecular Weight 150.1768 Wiswesser Line Notation T3OTJ B1OR Evaluation B	87LES/LIC	C₉H₁₂O (liq) 2,5,6-Trimethylphenol Heat Capacity 298.15 K, Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 136.1932 Wiswesser Line Notation QR B1 C1 F1 Evaluation B	88BAG/GUR $C_p = 224.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₉H₁₂O₂ (liq) Trimethylhydroquinone Heat Capacity 313.65 K, Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 152.1926 Wiswesser Line Notation QR B1 C1 DQ E1 Evaluation B	88BAG/GUR $C_p = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₁₈O (liq) 2,6-Dimethyl-4-heptanone; Diisobutylketone Heat Capacity 298.15 K One temperature. Molecular Weight 142.2406 Wiswesser Line Notation 1Y1&1V1Y1&1 Evaluation A	89VES/BAR $C_p = 297.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₄O (liq) 2,5,6-Trimethyl-2-cyclohexen-1-one Heat Capacity 298.15 K, Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 138.2090 Wiswesser Line Notation L6 BU CVTJ B1 E1 F1 Evaluation B	88BAG/GUR $C_p = 258.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₁₈O (liq) 5-Nonanone Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2406 Wiswesser Line Notation 4V4 Evaluation B	70HAR/HEA $C_p = 303.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₄O₂ (liq) Carbopropoxy methyl methacrylate Phase Changes c/liq 276.5 K, Molecular Weight 154.2084 Wiswesser Line Notation 3OV1OVY1&U1 Evaluation A	85KAR/ABD2 $\Delta H = 19867 \text{ J}\cdot\text{mol}^{-1}$	C₉H₁₈O (liq) Nonanal; Pelargonaldehyde Entropy 298.15 K, Phase Changes c/liq Molecular Weight 142.2406 Wiswesser Line Notation VH8 Evaluation B	82DYA/VAS $S = 397.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 30510 \text{ J}\cdot\text{mol}^{-1}$
C₉H₁₄O₆ (liq) Triacetin; Glycerol triacetate Heat Capacity 300 K, Temperature range 9 to 320 K. Entropy 300 K, Phase Changes c/liq 275.25 K, Molecular Weight 218.2060 Wiswesser Line Notation 1OV1YOV1&1OV1 Evaluation A Data also given for vitreous and supercooled liquid states from 10 to 260 K. $T(\text{glass}) = 198 \text{ K}$.	83RAB/KHL $C_p = 384.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 458.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 25800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 93.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₂₀ (liq) 2,2,4,4-Tetramethylpentane Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c/liq 206.61 K, Molecular Weight 128.2570 Wiswesser Line Notation 1X1&1&1X1&1&1 Evaluation A	76FIN/MES $C_p = 266.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 331.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9744.1 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₄O₆ (liq) Triacetin Heat Capacity 298.15 K, One temperature. Molecular Weight 218.2060 Wiswesser Line Notation 1VO1YOV1&1OV1 Evaluation A	86NIL/WAD $C_p = 389.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₂₀ (liq) 2,2,3,3-Tetramethylpentane Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c,II/c,I 174.45K, c,I/liq 263.40 K, Molecular Weight 128.2570 Wiswesser Line Notation 2X1&1&X1&1&1 Evaluation A	76FIN/MES $C_p = 271.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 334.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7325.45 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 41.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2332.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₉H₁₇O₂Tl (c) Thallium nonanoate Phase Changes c,IV/c,III 300 K, c,III/c,II 315 K, c,II/c,I 330 K, liq/liq 490 K, Mesophase-isotropic. c,I/liq 410 K, Solid-mesophase. Molecular Weight 361.6021 Wiswesser Line Notation OV8 .TL Evaluation B	76MEI/SEY $\Delta H = 1674 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2636 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7531 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 22.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2552 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5021 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 12.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₁₈O (liq) Nonanal; Pelargonaldehyde Heat Capacity 298.15 K, Temperature range 10 to 340 K. Entropy 298.15 K, Phase Changes c/liq 253.83 K Molecular Weight 142.2406 Wiswesser Line Notation VH8 Evaluation A	84VAS/PET $C_p = 290.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 396.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₉H₁₈O₂ (liq)	84VAS/PET	C₉H₂₀N₂O (c)	87DEL/FER
Butyl pentanoic acid		N,N'-Dibutylurea	
Heat Capacity 300 K,	$C_p = 311.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 190 to 370 K.		c,II/c,I	311.5 K,
Phase Changes			$\Delta H = 11100 \text{ J}\cdot\text{mol}^{-1}$
c/liq	189.37 K,		$\Delta S = 35.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta H = 17600 \text{ J}\cdot\text{mol}^{-1}$	c/liq	346.9 K,
	$\Delta S = 92.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 14870 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 158.2400		Molecular Weight 172.2698	$\Delta S = 42.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 4OV4		Wiswesser Line Notation 4MVM4	
Evaluation A		Evaluation A	
C₉H₁₈O₂ (liq)	84VAS/PET	C₉H₂₀O₄ (liq)	82ZAR
Amyl butyrate; Pentyl butanoate		Tripropylene glycol	
Heat Capacity 300 K,	$C_p = 311.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 440.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 200 to 370 K.		Temperature range 298, 323, 363 K.	
Phase Changes		Molecular Weight 192.2546	
c/liq	200.48 K,	Wiswesser Line Notation QYOYOYQ	
	$\Delta H = 20010 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 99.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 158.2400		C₉H₂₁Al (liq)	84SHE/NIS
Wiswesser Line Notation 5OV3		Tripropylaluminum	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 340.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 5 to 300 K.	
C₉H₁₈O₄ (liq)	82BIR/SIK	Entropy 298.15 K,	$S = 370.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
2-(2'-Hydroxyethoxy)ethyl pivalate		Molecular Weight 156.2464	
Heat Capacity 298.15 K,	$C_p = 311.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 3-AL-3&3	
Temperature range 270 to 370 K.		Evaluation A	
Equation only.		$T(\text{glass}) = 149.0 \text{ K}$.	
$C_p = 63.18 + 0.2288 T + 0.002671 T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$, (adjusted).		C₉H₂₁N₃O₆CaCl₂ (c)	80LOP/TEL
Molecular Weight 190.2388		Trisarcosine calcium chloride	
Wiswesser Line Notation Q2O2OVX1&1&1		Heat Capacity 300 K,	$C_p = 424 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation C		Temperature range 50 to 330 K.	
		Data given graphically.	
C₉H₂₀ (liq)	54STA/WAR	Value is an estimate from graph.	
3,3-Diethylpentane; Tetraethylmethane		Phase Changes	
Heat Capacity 260 K,	$C_p = 260.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I	130.27 K
Temperature range 90 to 260 K.		Molecular Weight 378.2674	
Phase Changes		Wiswesser Line Notation QV1M1 3 .CA G2	
c,II/c,I	210.1 K,	Evaluation C	
Combined heats of transition for multiple	$\Delta H = 1272 \text{ J}\cdot\text{mol}^{-1}$		
phases.		C₉H₂₄Si₂ (c)	75GUS/KAR
c,I/liq	240.13 K,	1,3-Bis(trimethylsilyl)propane	
	$\Delta H = 10033 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity 298.15 K,	$C_p = 394.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 47.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 10 to 300 K. Data given	
Combined entropies of fusion and transition.		graphically.	
Molecular Weight 128.2570		Entropy 298.15 K,	$S = 517.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 2X2&2&2		Phase Changes	
Evaluation B		c/liq	223.73 K,
			$\Delta H = 16058 \text{ J}\cdot\text{mol}^{-1}$
C₉H₂₀ (liq)	76FIN/MES	liq/g	444.52 K,
3,3-Diethylpentane; Tetraethylmethane			$\Delta S = 71.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 298.15 K,	$C_p = 278.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 43095 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 10 to 400 K.			$\Delta S = 96.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 333.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 188.4596	
Phase Changes		Wiswesser Line Notation 1-SI-1&1&3-SI-1&1&1	
c,III/c,II	208.25 K,	Evaluation B	
	$\Delta H = 483.7 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 2.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₉H₂₄Si₃ (c)	75GUS/KAR
c,II/c,I	210.4 K,	1,1,3,3,5,5-Hexamethyl-1,3,5-trisilacyclohexane	
	$\Delta H = 810.4 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity 298.15 K,	$C_p = 400.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 3.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 10 to 300 K.	
c,I/liq	240.10 K,	Data given graphically.	
	$\Delta H = 10089.7 \text{ J}\cdot\text{mol}^{-1}$	Entropy 298.15 K,	$S = 477.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 42.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 128.2570		c/liq	269.28 K,
Wiswesser Line Notation 2X2&2&2			$\Delta H = 16498 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 61.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		liq/g	476.55 K,
C₉H₂₀ (liq)	82ZAR		$\Delta H = 45522 \text{ J}\cdot\text{mol}^{-1}$
<i>n</i> -Nonane			$\Delta S = 95.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 323 K,	$C_p = 293.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 216.5451	
Temperature range 323, 363 K.		Wiswesser Line Notation T6-SI- C-SI- E-SI-TJ	
Molecular Weight 128.2570		A1 A1 C1 C1 E1 E1	
Wiswesser Line Notation 9H		Evaluation B	
Evaluation B			

C₁₀D₁₀Fe (c) Ferrocene- <i>d</i> ₁₀ Heat Capacity Temperature range 13 to 300 K. Data graphically only. Phase Changes c,III/c,II 164.1 K, $\Delta H = 878 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Lambda type transition in the metastable state. c,II/c,I 251 K, $\Delta H = 4230 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 16.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase transition between stable <i>LT</i> and stable <i>HT</i> phases. Molecular Weight 196.1150 Wiswesser Line Notation L5ØJ &1A-E/H-2 5Ø-FE-- ØL5ØJ &1A-E/H-2 5 Evaluation A	83SHI/SOR	C₁₀H₇Cl (liq) 1-Chloronaphthalene Heat Capacity 298.15 K, One temperature. $C_p = 211.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 162.6183 Wiswesser Line Notation L66J BG Evaluation B	86WIL/LAI
C₁₀D₁₀Fe (c) Ferrocene- <i>d</i> ₁₀ Heat Capacity 298.15 K, Temperature range 13 to 300 K. Entropy 298.15 K, Phase Changes c,III/c,II 164.1 K, $\Delta H = 878 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Lambda transition. Secondary C_p maximum at 172 K. c,II/c,I 251 K, $\Delta H = 4230 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 16.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 196.1150 Wiswesser Line Notation L5ØJ &1A-E/H-2 5Ø-FE-- ØL5ØJ &1A-E/H-2 5 Evaluation A Data also given for the metastable phases over temperature range 10 to 250 K.	84SOR/SHI	C₁₀H₇Cl (c) 2-Chloronaphthalene Heat Capacity 250 K, Temperature range 4.2 to 300 K. Data given graphically and estimated from graph. Transition at 308 K makes heat capacity at 298 K anomalous. Phase Changes c,III/c,II 12 K Anomalous transition. c,II/c,I 308 K Anomalous transition. Molecular Weight 162.6183 Wiswesser Line Notation L66J CG Evaluation D(C_p); C(Phase changes)	78LOY/REY
C₁₀H₂O₆ (c) Pyromellitic dianhydride Heat Capacity 300 K, Temperature range 60 to 400 K. Entropy 300 K, Molecular Weight 218.1222 Wiswesser Line Notation T565 DVOV JVOVJ Evaluation B	77KAR/BAZ	C₁₀H₇F (c) 2-Fluoronaphthalene Heat Capacity 250 K, Temperature range 4.2 to 300 K. Data given graphically and estimated from graph. Transition at 277 K makes heat capacity at 298 K anomalous. Phase Changes c,IV/c,II 161 K Anomalous transition; sharp peak. c,III/c,II 240 K Anomalous transition. c,II/c,I 277 K Anomalous transition. c,I/liq 331 K Molecular Weight 146.1637 Wiswesser Line Notation L66J CF Evaluation D(C_p); C(Phase changes)	78LOY/REY
C₁₀H₅Cu (c) Copper phenylethynylacetylenide Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Molecular Weight 188.6955 Wiswesser Line Notation -CU-1UU2UU1R Evaluation A	82BYK/LEB	C₁₀H₈ (c) Naphthalene Phase Changes c/liq 354.1 K, $\Delta H = 19020 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 53.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Relative error in determination $\pm 5\%$. Molecular Weight 128.1732 Wiswesser Line Notation L66J Evaluation C	82SYU/TUM
C₁₀H₇Cl (liq) 1-Chloronaphthalene Heat Capacity 298.15 K, One temperature. Molecular Weight 162.6183 Wiswesser Line Notation L66J BG Evaluation B	81GRO/ING	C₁₀H₈ (c) Naphthalene Phase Changes liq/g 323 K, $\Delta H = 70850 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 219.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/g 298.15 K, $\Delta H = 72320 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 242.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 128.1732 Wiswesser Line Notation L66J Evaluation A	88TOR/BAR
C₁₀H₈Cl (liq) 1-Chloronaphthalene Heat Capacity 298.15 K, One temperature. Molecular Weight 163.6262 Wiswesser Line Notation L66J BG Evaluation B		C₁₀H₈Cl (liq) 1-Chloronaphthalene Heat Capacity 298.15 K, One temperature. $C_p = 212.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 163.6262 Wiswesser Line Notation L66J BG Evaluation B	88COS/HUU

C₁₀H₁₀ (c)	80FAL	C₁₀H₁₀Cr (c)	75RAB/NIS
Bullvalene; Tricyclo[3.3.2.0 ^{4,6}]deca-2,7,9-triene		Chromocene	
Heat Capacity 298.15 K, $C_p = 190.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Heat Capacity 298.15 K, $C_p = 199.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
Temperature range 5 to 450 K.		Temperature range 5 to 298.15 K.	
Entropy 298.15 K, $S = 174.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Entropy 298.15 K, $S = 236.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
Phase Changes		Phase Changes	
c/liq 366.5 K, $\Delta H = 15250 \text{ J}\cdot\text{mol}^{-1}$		c,II/c,I 99.5 K, $\Delta H = 265 \text{ J}\cdot\text{mol}^{-1}$	
	$\Delta S = 41.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 2.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 130.1890		Lambda transition between 75 to 140 K with a maximum	
Wiswesser Line Notation L737 B C 1A J BU EU IUTJ		at 99.7 K and another flat peak at 118 K.	
Evaluation A		Molecular Weight 182.1850	
		Wiswesser Line Notation L5ØJ Ø-CR-- ØL5ØJ	
		Evaluation A	
		See also 78RAB/NIS.	
C₁₀H₁₀ (liq)	49PAR/HAT	C₁₀H₁₀Cr (c)	76POM/AZO
<i>cis</i> -Decahydronaphthalene		Chromocene	
Heat Capacity 298.15 K, $C_p = 220.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Heat Capacity 298.15 K	
Temperature range 80 to 298.15 K.		Temperature range 121 to 298 K.	
Phase Changes		Data given graphically.	
c/liq 230.1 K, $\Delta H = 2209 \text{ J}\cdot\text{mol}^{-1}$		$C_p = -253.6 + 0.632T +$	
	$\Delta S = 9.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$33.52 \times 10^3 T^{-1} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. (213 to 298 K).	
Molecular Weight 130.1890		Phase Changes	
Wiswesser Line Notation L66TTJ -C		c,II/c,I 160–230 K, $\Delta S = 1.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
Evaluation B		Lambda type transition.	
		Molecular Weight 182.1850	
		Wiswesser Line Notation L5ØJ Ø-CR-- ØL5ØJ	
		Evaluation C(C_p), A(Phase changes)	
C₁₀H₁₀ (liq)	49PAR/HAT	C₁₀H₁₀Cr (c)	84CHH/POM
<i>trans</i> -Decahydronaphthalene		Chromocene	
Heat Capacity 298.15 K, $C_p = 217.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Heat Capacity 298 K, $C_p = 198.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
Temperature range 80 to 298.15 K.		Temperature range 10 to 300 K.	
Phase Changes		Unsmoothed experimental datum.	
c/liq 242.4 K, $\Delta H = 3244 \text{ J}\cdot\text{mol}^{-1}$		Molecular Weight 182.1850	
	$\Delta S = 13.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation L5ØJ Ø-CR-- ØL5ØJ	
Molecular Weight 130.1890		Evaluation B	
Wiswesser Line Notation L66TTJ -T		Lambda anomaly at 100 K.	
Evaluation B			
C₁₀H₁₀Co (c)	75RAB/NIS	C₁₀H₁₀F₆FeP (c)	86SOR/SHI
Cobaltocene		Ferrocenium hexafluorophosphate	
Heat Capacity 298.15 K, $C_p = 197.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Heat Capacity	
Temperature range 5 to 298.15 K.		Temperature range 12 to 393 K.	
Entropy 298.15 K, $S = 236.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Data given graphically.	
Phase Changes		Phase Changes	
c,II/c,I 92 K, $\Delta H = 238 \text{ J}\cdot\text{mol}^{-1}$		c,IV/c,III 210.95 K	
	$\Delta S = 2.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,III/c,II 213.05 K, $\Delta H = 1950 \text{ J}\cdot\text{mol}^{-1}$	
Lambda transition between 70 to 140 K with a maximum at 92 K.			$\Delta S = 9.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 189.1222			ΔH and ΔS are total of
Wiswesser Line Notation L5ØJ Ø-CO-- ØL5ØJ		c,IV/c,III and	
Evaluation A		c,III/c,II transitions.	
See also 78RAB/NIS.		c,II/c,I 346.94 K, $\Delta H = 4840 \text{ J}\cdot\text{mol}^{-1}$	
			$\Delta S = 13.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₀H₁₀Co (c)	76POM/AZO	Molecular Weight 331.0002	
Cobaltocene		Wiswesser Line Notation L5ØJ Ø-FE-- ØL5ØJ & PFFFFF	
Heat Capacity 298.15 K		Evaluation A	
Temperature range 118 to 298 K. Data given graphically.			
$C_p = 62.92 - 0.460T + 6.07 \times 10^{-3}T^2 - 9.53 \times 10^{-6}T^3$ (118 to 298 K).		C₁₀H₁₀Fe (c)	76POM/AZO
C_p value calculated from equation.		Ferrocene	
Molecular Weight 189.1222		Heat Capacity	
Wiswesser Line Notation L5ØJ Ø-CO-- ØLTØJ		Temperature range 120 to 200 K.	
Evaluation C		Data given graphically.	
		Phase Changes	
		c,II/c,I 164 K, $\Delta H = 853 \text{ J}\cdot\text{mol}^{-1}$	
			$\Delta S = 5.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 186.0360	
		Wiswesser Line Notation L5ØJ Ø-FE-- ØL5ØJ	
		Evaluation A	

C₁₀H₁₀Mn (c)	75RAB/NIS	C₁₀H₁₀O₄ (liq)	70MAR/RAB
Manganocene		Dimethyl <i>o</i> -phthalate	
Heat Capacity 298.15 K,	$C_p = 208.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 303.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 298.15 K.		Temperature range 60 to 360 K.	
Entropy 298.15 K,	$S = 251.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 365.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 55–75 K,	$\Delta H = 41 \text{ J}\cdot\text{mol}^{-1}$	c/liq 274.18 K,	$\Delta H = 16945 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 0.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 61.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Lambda transition.		Molecular Weight 194.1866	
Molecular Weight 185.1270		Wiswesser Line Notation 1OVR BVO1	
Wiswesser Line Notation L5ØJ Ø-MN-- ØL5ØJ		Evaluation B	
Evaluation A		See also 69RAB/MAR. $T(\text{glass}) = 192.0 \text{ }^\circ\text{C}$.	
See also 78RAB/NIS.			
C₁₀H₁₀N₂O₂ (c)	82CUE/SOL	C₁₀H₁₀O₄ (liq)	84VAS/PET
N-Ethanol isatoxine		Dimethyl- <i>o</i> -phthalate	
Phase Changes		Heat Capacity 300 K,	$C_p = 303.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 505 K,	$\Delta H = 28900 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 25 to 360 K.	
	$\Delta S = 57.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 365.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 190.2012		Phase Changes	
Wiswesser Line Notation T56 BMVHJ DUNO2		c/liq 274.18 K	
Evaluation D		Molecular Weight 194.1866	
		Wiswesser Line Notation 1OVR BVO1	
		Evaluation A	
C₁₀H₁₀Ni (c)	75RAB/NIS	C₁₀H₁₀O₄ (liq)	86RAB/NOV
Nickelocene		Dimethyl- <i>o</i> -phthalate	
Heat Capacity 298.15 K,	$C_p = 205.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 303.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 298.15 K.		Temperature range 6 to 120 K.	
Entropy 298.15 K,	$S = 253.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 353.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 194.1866	
c,II/c,I 100–190 K,	$\Delta H = 182 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 1OVR BVO1	
	$\Delta S = 1.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Lambda transition.		Low temperature study of vitreous and crystalline forms.	
Molecular Weight 188.8890		Thermodynamic functions calculated for temperature	
Wiswesser Line Notation L5ØJ Ø-NI-- ØL5ØJ		range 0 to 360 K.	
Evaluation A			
See also 78RAB/NIS.			
C₁₀H₁₀Ni (c)	76POM/AZO	C₁₀H₁₀Ru (c)	76POM/AZO
Nickelocene		Ruthenocene	
Heat Capacity 298.15 K		Heat Capacity 298.15 K	
Temperature range 127 to 303 K.		Temperature range 100 to 300 K.	
Data given graphically.		Data given graphically.	
$C_p = 87.705 - 0.649T + 5.86 \times 10^{-3}T^2 -$		$C_p = 74.33 + 2.59T - 1.50 \times 10^{-3}T^2$	
$9.29 \times 10^{-6}T^3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (127 to 170 K; 240 to 303 K).		$+ 2.31 \times 10^{-5}T^3 - 4.35 \times 10^{-8}T^4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (100 to 300K).	
C_p value calculated from equation.		Molecular Weight 231.2590	
Phase Changes		Wiswesser Line Notation L5ØJ Ø-RU-- ØL5ØJ	
c,II/c,I 170–240 K,	$\Delta S = 5.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation C	
Molecular Weight 188.8890			
Wiswesser Line Notation L5ØJ Ø-NI-- ØL5ØJ			
Evaluation C(C_p), A(Phase changes)			
C₁₀H₁₀O₂ (c)	84BEK/RUE	C₁₀H₁₀V (c)	75RAB/NIS
Homocubane-4-carboxylic acid;		Vanadocene	
4-Carboxypentacyclo[4.3.0.0 ^{2,5} .0 ^{3,8} .0 ^{4,7}]nonane		Heat Capacity 298.15 K,	$C_p = 204.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 298 K,	$C_p = 207 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 5 to 298.15 K.	
C_p given as $0.305 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Entropy 298.15 K,	$S = 340.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
liq/g	$\Delta H = 82006 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 130–200 K,	$\Delta H = 196 \text{ J}\cdot\text{mol}^{-1}$
ΔH from 80DUC/GRU.			$\Delta S = 1.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 162.1878		Lambda transition.	
Wiswesser Line Notation L444 B4 D5 4ABCD ITJ AVQ		Molecular Weight 181.1305	
Evaluation B		Wiswesser Line Notation L5ØJ Ø-VA-- ØL5ØJ	
		Evaluation A	

C₁₀H₁₂ (c)	77LEB/LIT4	C₁₀H₁₄Si (liq)	81LEB/LEB
<i>endo</i> -Dicyclopentadiene		Vinyldimethylphenylsilane	
Heat Capacity 298.15 K,	$C_p = 188.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 284.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 330 K.		Temperature range 5 to 330 K.	
Entropy 298.15 K,	$S = 230.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 216 K,	$\Delta H = 9660 \text{ J}\cdot\text{mol}^{-1}$	c/liq 190.70 K,	$\Delta H = 12300 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 40.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 304.8 K,	$\Delta H = 2220 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 162.3061	
	$\Delta S = 6.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 1U1-SI-1&1&R	
Molecular Weight 132.2048		Evaluation A	
Wiswesser Line Notation L C555 A EU IUTJ -C		$T(\text{glass}) = 129 \text{ K}$.	
Evaluation A			
C₁₀H₁₂N₂O₃ (c)	82CUE/SOL	(C₁₀H₁₄Si)_n (c)	75LEB/ARO
2-Ethoxyisonitrosoacetanilide		Polyvinyldimethylphenylsilane	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 231.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 405 K,	$\Delta H = 23000 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 60 to 300 K.	
	$\Delta S = 56.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 247.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 208.2164		Molecular Weight 162.3061	
Wiswesser Line Notation QNU1VMR BO2		Wiswesser Line Notation /*1Y*-SI-1&1&R/	
Evaluation D		Evaluation B	
C₁₀H₁₂N₂O₃ (c)	82CUE/SOL	(C₁₀H₁₄Si)_n (c)	81LEB/LEB
4-Ethoxyisonitrosoacetanilide		Polyvinyldimethylphenylsilane	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 231.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 490 K,	$\Delta H = 7600 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 5 to 330 K.	
	$\Delta S = 15.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 247.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 208.2164		Molecular Weight 162.3061	
Wiswesser Line Notation QVU1MR DO2		Wiswesser Line Notation /*1Y*-SI-1&1&R/	
Evaluation D		Evaluation A	
C₁₀H₁₂O₂ (liq)	83KAR/ABD	(C₁₀H₁₄Si)_n (gls)	77LEB/RAB2
Eugenol; 5-Allylguaiacol		Polyvinyldimethylphenylsilane	
Heat Capacity 293 K,	$C_p = 343.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 231.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 243 to 293 K.		Temperature range 60 to 300 K.	
C_p given as 2090 J·kg ⁻¹ ·K ⁻¹ .		Entropy 298.15 K,	$S = 247.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 164.2036		Molecular Weight 162.3061	
Wiswesser Line Notation QR B01 D2U1		Wiswesser Line Notation /*1Y*-SI-1&1&R/	
Evaluation B		Evaluation A	
C₁₀H₁₂N₂S (c)	28SHI	C₁₀H₁₄ZnO₄ (c)	86GRI/LAZ
N-Allyl-N'-phenylthiourea		Zinc acetylacetonate	
Heat Capacity 323 K,	$C_p = 59.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range:		c/liq 400.5 K,	$\Delta H = 18200 \text{ J}\cdot\text{mol}^{-1}$
C_p measured at 50°, 70 °C, 99.8 °C.			$\Delta S = 45.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 263.5982	
c/liq 375 K,	$\Delta H = 27614 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation D6O-ZN-O ADJ D1 F1	
	$\Delta S = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	B-& BD6O-ZN-O ADJ D1 F1	
Molecular Weight 192.2782		Evaluation A	
Wiswesser Line Notation 1U2MYMUS&R			
Evaluation B			
C₁₀H₁₄Si (liq)	77LEB/RAB2	C₁₀H₁₅Cl (c)	88PAR/KAW
Vinyldimethylphenylsilane		2-Chloroadamantane	
Heat Capacity 298.15 K,	$C_p = 284.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 60 to 300 K.		c,III/c,II 227 K,	$\Delta H = 470 \text{ J}\cdot\text{mol}^{-1}$
Entropy 298.15 K,	$S = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 2.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		c,II/c,I 242 K,	$\Delta H = 8300 \text{ J}\cdot\text{mol}^{-1}$
c/liq 190.70 K,	$\Delta H = 12259 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 170.6815	
Molecular Weight 162.3061		Wiswesser Line Notation L66 B6/B-H/DI A B- C 1B ITJ AG	
Wiswesser Line Notation 1U1-SI-1&1&R		Evaluation A	
Evaluation A			
$T(\text{glass}) = 129.5 \text{ K}$.			

C₁₀H₁₆ (liq) 78GOO/SCO <i>exo</i> -Tetrahydrodicyclopentadiene Heat Capacity 298.15 K, $C_p = 236.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 275 to 365 K. Equation only. C_p calculated from equation. $C_s = 0.046061 + 0.0012371 T \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ (275 to 365 K). Molecular Weight 136.2364 Wiswesser Line Notation L C555 ATJ -T Evaluation B	C₁₀H₁₆O (c) 88SAL/ABA 2-Hydroxyadamantane Phase Changes c,IV/c,III 325.16 K, $\Delta H = 300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,III/c,II 391.16 K, $\Delta H = 3740 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 516.16 K, $\Delta H = 7750 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 152.2358 Wiswesser Line Notation L66 B6 /B-H/ A B- C 1B ITJ AQ Evaluation A
C₁₀H₁₆ (liq) 79SMI/GOO <i>exo</i> -Tetrahydrodicyclopentadiene Heat Capacity 298.15 K, $C_p = 236.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.415 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 136.2364 Wiswesser Line Notation L C555 ATJ -T Evaluation B	C₁₀H₁₆O (liq) 82KAR/IGA Citral; Geranial Heat Capacity 293 K, $C_p = 304.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 233 to 293 K. C_p given as $2000 \text{ J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 152.2358 Wiswesser Line Notation VHOYUY1&3UY1&1 Evaluation B
C₁₀H₁₆ (liq) 80GOO/THO <i>exo</i> -Tetrahydrodicyclopentadiene Heat Capacity 298.15 K, $C_p = 213.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 260 to 465 K. Equation only. C_p calculated from equation $C_p (\text{cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}) = 0.10423$ $+ 0.76872 \times 10^{-3} T + 0.46992 \times 10^{-6} T^2$ (260 to 465 K). Molecular Weight 136.2364 Wiswesser Line Notation L C555 ATJ -T Evaluation B	(C₁₀H₁₆O₄)_n (c) 84RAB/NIS Polybutylene glycol adipate Heat Capacity 298.15 K, $C_p = 316.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 80 to 470 K. 100% crystallinity. $C_p(298.15 \text{ K}) = 393.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ for the highly elastic state. Entropy 298.15 K, $S = 334.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ 100% crystallinity. $S^\circ(298.15) - S^\circ(0) = 379.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ for the highly elastic state. Phase Changes c/liq 328.8 K, $\Delta H = 24800 \text{ J}\cdot\text{mol}^{-1}$ Molecular Weight 200.2340 Wiswesser Line Notation /*OV4VO4*/ Evaluation B $T(\text{glass}) = 199 \text{ K}$.
C₁₀H₁₆N₂ClO₄ (c) 65CHI/NAK Wurster's Blueperchlorate; N,N,N',N'-Tetramethyl- <i>p</i> -phenylene-diamine perchlorate Heat Capacity 200 K, $C_p = 264 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 80 to 200 K. Data graphically only and estimated from graph. Phase Changes c,II/c,I 189.9 K, $\Delta H = 1709.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Transition is probably first-order. Molecular Weight 263.7004 Wiswesser Line Notation 1N1&R DN1&1 &GWW Evaluation A	C₁₀H₁₈ (liq) 88SHI/OGA <i>cis</i> -Decahydronaphthalene; <i>cis</i> -Decalin Heat Capacity 298.15 K, $C_p = 232.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 138.2522 Wiswesser Line Notation L66TJ -C Evaluation A
C₁₀H₁₆O (liq) 88BAG/GUR 3,7-Dimethyl-6-octen-1-yn-3-ol Heat Capacity 313.55 K, $C_p = 385.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 152.2358 Wiswesser Line Notation 1YU3XQ1UU1 Evaluation B	C₁₀H₁₈ (liq) 88SHI/OGA2 <i>cis</i> -Decahydronaphthalene; <i>cis</i> -Decalin Heat Capacity 298.15 K, $C_p = 232.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 138.2522 Wiswesser Line Notation L66TJ -C Evaluation A
C₁₀H₁₆O (c) 88SAL/ABA 1-Hydroxyadamantane Phase Changes c,III/c,II 369.16 K, $\Delta H = 2500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 529.16 K, $\Delta H = 7130 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 13.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 152.2358 Wiswesser Line Notation L66 B6 /B-H/ A B- C 1B ITJ FQ Evaluation A	C₁₀H₁₈ (liq) 88SHI/OGA <i>trans</i> -Decahydronaphthalene; <i>trans</i> -Decalin Heat Capacity 298.15 K, $C_p = 229.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 138.2522 Wiswesser Line Notation L66TJ -T Evaluation A

C₁₀H₁₈ (liq) <i>trans</i> -Decahydronaphthalene; <i>trans</i> -Decalin Heat Capacity 298.15 K, $C_p = 229.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 138.2522 Wiswesser Line Notation L66TJ -T Evaluation A	88SHI/OGA2	C₁₀H₂₀BrFeN₂S₄ (c) Bromo bis(N,N-diethyldithiocarbamate)iron (III) Heat Capacity 298.095 K, $C_p = 434.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 0.4 to 393 K. Unsmoothed experimental datum. Phase Changes c,IV/c,III 1.347 K Lambda type ferromagnetic transition. c,III/c,II 9 K, $\Delta H = 97.0 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 11.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Schottky type anomaly. ΔH and ΔS values are the total of both transitions. c,II/c,I 265.7 K, $\Delta H = 1960 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Non-magnetic phase transition. Molecular Weight 432.2724 Wiswesser Line Notation SUYS&N2&2 2 .FE E Evaluation A(Phase changes), C(C_p) Values given for sample A. (see text)	83YOS/SOR
C₁₀H₁₈O₄ (liq) Ethleneglycol dibutanoate Heat Capacity 298.15 K, $C_p = 380.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Molecular Weight 202.2498 Wiswesser Line Notation 3VO2OV3 Evaluation A	86NIL/WAD		
C₁₀H₁₉NO₂ (liq) Diethylaminoethyl methacrylate Phase Changes c/liq 207.5 K, $\Delta H = 13080 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 185.2656 Wiswesser Line Notation 1UY1&VO2N2&2 Evaluation A	85KAR/ABD2		
C₁₀H₁₉O₂TI (c) Thallium (I) <i>n</i> -decanoate Heat Capacity 300 K, $C_p = 426.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 6 to 480 K. Entropy 300 K, $S = 403.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,V/c,IV 232.4 K, $\Delta H = 2411 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,IV/c,III 288.6 K, $\Delta H = 599 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,III/c,II 306.8 K, $\Delta H = 4240 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 13.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 327.4 K, $\Delta H = 3974 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 12.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 405.0 K, $\Delta H = 5670 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 13.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-mesophase. liq/liq 484.0 K, $\Delta H = 2552 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Mesophase-isotropic liquid. Molecular Weight 375.6289 Wiswesser Line Notation OV9 .TL Evaluation A	88LOP/CHE		
C₁₀H₂₀ (c) 2,2,5,5-Tetramethylhex-3-ene Phase Changes c,III/c,II 235.7 K, $\Delta H = 1210 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 243.5 K, $\Delta H = 4330 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 17.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 268.8 K, $\Delta H = 10250 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 140.2688 Wiswesser Line Notation 1X1&1&1U1X1&1&1 Evaluation A	80BYS		
		C₁₀H₂₀O (liq) Decanal; Capric aldehyde; Capraldehyde Heat Capacity Temperature range 50 to 350 K. Phase Changes c/liq 269.47 K, $\Delta H = 30600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 113.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ 97.10 mol% purity. Molecular Weight 156.2674 Wiswesser Line Notation VH9 Evaluation B Manuscript deposited in Cent. Sci. Res. Inst. Tech. Eng. Petrochemicals, July 27, 1979.	80DYA/VAS
		C₁₀H₂₀O (liq) Decanal; Capric aldehyde; Capraldehyde Entropy 298.15 K, $S = 429.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq $\Delta H = 34500 \text{ J}\cdot\text{mol}^{-1}$ Molecular Weight 156.2674 Wiswesser Line Notation VH9 Evaluation B	82DYA/VAS
		C₁₀H₂₀O (liq) Decanal; Capric aldehyde; Capraldehyde Heat Capacity 298.15 K, $C_p = 319.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 337.5 K. Entropy 298.15 K, $S = 429.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 269.25 K Molecular Weight 156.2674 Wiswesser Line Notation VH9 Evaluation A	84VAS/PET
		C₁₀H₂₀O₂ (c) Decanoic acid; Capric acid Phase Changes c/liq 300.1 K, $\Delta H = 29217 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 172.2668 Wiswesser Line Notation QV9 Evaluation C	1889EYK
		C₁₀H₂₂ (liq) <i>n</i> -Decane Heat Capacity 298 K, $C_p = 312.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298, 323, 363 K. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	82ZAR

$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	84GRO/ING $C_p = 313.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{22}N_4$ (liq) Dipiperazinyloethane Heat Capacity 413 K, Temperature Range 413 to 473 K Molecular Weight 174.2886 Wiswesser Line Notation T6M DNTJ D2- DT6M DNTJ Evaluation D	88BOB/KAM $C_p = 540 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	84ROU/GRO $C_p = 314.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{25}N_5$ (liq) N-(2-Aminoethyl)-N'-[(2-aminoethyl)2-aminoethyl]piperazine Heat Capacity 333 K, Temperature Range 333 to 473 K Molecular Weight 191.3190 Wiswesser Line Notation T6N DNTJ A2M2Z D2Z Evaluation D	88BOB/KAM $C_p = 529 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	85LAI/ROU $C_p = 313.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{22}S$ (liq) 1-Decanethiol; <i>n</i> -Decyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 346.70 + 3.600 \times 10^{-2}T + 8.824 \times 10^{-5}T^2$. Molecular Weight 174.3438 Wiswesser Line Notation SH10 Evaluation B	82TUT/GAB $C_p = 365.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation A	85LAI/WIL $C_p = 313.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{24}ClN$ (c) Di- <i>n</i> -pentylammonium chloride Heat Capacity 296.32 K, Temperature range 25 to 350 K. Unsmoothed experimental datum. Phase Changes c,II/c,I 243.84 K, Molecular Weight 193.7593 Wiswesser Line Notation 5M5 &GH Evaluation A	88VAN/WHI $C_p = 353.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1312.5 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, Temperature range 298.15 to 368.15 K. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation C	86GAT/WOO $C_p = 313.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{24}CuN_6O_6$ (c) Cyclam; 1,4,8,11-Tetraazacyclotetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 200.3264 Wiswesser Line Notation T14M DM HM KMTJ Evaluation B	80CLA/STE $C_p = 374.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.87 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	86TAR/AIC $C_p = 315.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{24}N_4Cu(NO_3)_2$ (c) Bis(nitrato)(1,4,8,11-tetraazacyclotetradecane); copper (II); 1,4,8,11-Tetraazacyclotetradecane copper (II) nitrate Heat Capacity 298.15 K, One temperature. Molecular Weight 387.8822 Wiswesser Line Notation T14M DM HM KMTJ &.CU..N-O3*2 Evaluation B	80CLA/STE $C_p = 915.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $2.36 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation B	88COS/HUU $C_p = 315.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$C_{10}H_{26}O_3Si_3$ (liq) 1,1,3,3-Tetraethyl-5,5-dimethylcyclotrisiloxane Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 195–210 K, c,I/liq 260.03 K, Molecular Weight 278.5701 Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A2 A2 C2 C2 E1 E1 Evaluation A	87DZH/KUL3 $C_p = 502.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 616.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 131 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.946 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9522 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 36.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{10}H_{22}$ (liq) <i>n</i> -Decane Heat Capacity 298.15 K, One temperature. Molecular Weight 142.2838 Wiswesser Line Notation 10H Evaluation A	88PER/AIC $C_p = 313.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₁₀H₂₈Cl₄MnN₂ (c)	75BOC/ARR	C₁₁H₁₆F₆FeP (c)	86SOR/SHI
Tetrachlorobis-(pentylammonium) manganese II		(Cyclohexatriene)(cyclopentadienyl)iron(II) hexafluorophosphate	
Phase Changes		Heat Capacity	
c,IV/c,III 203 K,	$\Delta H = 53.2 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 12 to 393 K. Data given graphically.	
c,III/c,II 208 K,	$\Delta H = 506.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
c,II/c,I 364 K,	$\Delta H = 3.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,V/c,IV 158.3 K,	$\Delta H = 1190 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 373.0946		c,IV/c,III 265.9 K	
Wiswesser Line Notation 5ZH 2 .MN G4		c,III/c,II 280.2 K	
Evaluation A		c,II/c,I 321.5 K,	$\Delta H = 4540 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		ΔH and ΔS are total of c,IV/c,III; c,III/c,II; and c,II/c,I transitions.	
C₁₀H₂₈Cl₄N₂Zn (c)	84CUE/TEL	Molecular Weight 344.0191	
Bis-pentylammonium tetrachloro zincate		Wiswesser Line Notation L6ØJ Ø-FE--ØL5ØJ &PFFFFFF	
Heat Capacity 300 K,	$C_p = 518.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 55 to 355 K.			
Entropy 300 K,	$S = 525.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes		C₁₁H₁₂O₂ (liq)	84BEK/RUE
c,V/c,IV 141.5 K,	$\Delta H = 441 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	4-Carbomethoxyhomocubane	
c,IV/c,III 147.95 K,	$\Delta H = 499 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 288 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 249.95 K,	$\Delta H = 3584 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C_p given as $0.391 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.	
c,II/c,I 349.05 K,	$\Delta H = 8672 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 24.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
c,I/liq 437 K,	$\Delta H = 6800 \text{ J}\cdot\text{mol}^{-1}$	liq/g 303-343 K,	$\Delta H = 79956 \text{ J}\cdot\text{mol}^{-1}$
Solid-isotropic liquid.		Derived from vapor pressure measurements.	
Molecular Weight 383.5366		Molecular Weight 176.2146	
Wiswesser Line Notation 5ZH 2 .ZN G4		Wiswesser Line Notation L444 B4 D5 4ABCD ITJ AVO1	
		Evaluation B	
C₁₁H₁₀O₄ (c)	84LEB/LEB	C₁₁H₁₄N₂ (c)	81LEB/RYA
<i>p</i> -Methacryloyloxybenzoic acid		Gramine; 3-Dimethylaminomethyl indole	
Heat Capacity 298.15 K,	$C_p = 257.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity	$C_p = 283.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 350 K.		Temperature range 298 to 393 K. Data given over temperature range.	
Entropy 298.15 K,	$S = 284.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 174.2450	
Phase Changes		Wiswesser Line Notation T56 BMJ D1N1&1	
c/liq 455 K,	$\Delta H = 34000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 206.1976		C₁₁H₁₆Si (liq)	81LEB/LEB
Wiswesser Line Notation QVR DOVY1&U1		Vinyldimethylbenzylsilane	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 312.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 5 to 330 K.	
(C₁₁H₁₀O₄)_n (gls)	84LEB/LEB	Entropy 298.15 K,	$S = 399.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Poly- <i>p</i> -methacryloyloxybenzoic acid		Phase Changes	
Heat Capacity 298.15 K,	$C_p = 258.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 204.14 K,	$\Delta H = 11600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 350 K.		Molecular Weight 176.3329	
Entropy 298.15 K,	$S = 261.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 1U1-SI-1&1&1R	
Molecular Weight 206.1976		Evaluation A	
Wiswesser Line Notation /*X1*&1&VOR DVQ/		$T(\text{glass}) = 145 \text{ K}$.	
Evaluation A		(C₁₁H₁₆Si)_n (gls)	81LEB/LEB
$T(\text{glass}) = 316 \text{ K}$.		Polyvinyldimethylbenzylsilane	
		Heat Capacity 298.15 K,	$C_p = 310.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 5 to 330 K.	
		Highly elastic state.	
		Entropy 298.15 K,	$S = 294.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Highly elastic state.	
		Molecular Weight 176.3329	
		Wiswesser Line Notation /*1Y*-SI-1&1&1R/	
		Evaluation A	
		$T(\text{glass}) = 279 \text{ K}$.	

C₁₁H₁₇NO (c) 1-Adamantyl carboxamide Heat Capacity 298.15 K, One temperature. C_p given as $1.23 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/g 298.15 K, Molecular Weight 179.2614 Wiswesser Line Notation L66 B6/B-H/DI A B- C 1B ITJ BVZ Evaluation A	89ABB/JIM $C_p = 220.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 108000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 362.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂D₁₀ (c) Biphenyl- <i>d</i> ₁₀ Heat Capacity 298.15 K, Temperature range 3 to 300 K. Entropy 298.15 K, Phase Changes c,III/c,II 20.2 K, Lock-in transition. c,II/c,I 36.8 K, Twist transition. Molecular Weight 164.2900 Wiswesser Line Notation RR &1A-E/H-2 &2A-E/H-2 5 Evaluation A	87SAI/ATA2 $C_p = 228.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 230.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 0.18 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4.61 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.128 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₁H₂₀ (c) Bicyclo[3.3.3]undecane; Manxane Heat Capacity 298.15 K, One temperature. Phase Changes c/g 298.15 K, Molecular Weight 152.2790 Wiswesser Line Notation T88 A B CTJ Evaluation B(C_p), A(Phase changes)	75PAR/STE $C_p = 213.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 6359.7 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 21.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂D₁₀ (c) Biphenyl- <i>d</i> ₁₀ Heat Capacity Temperature range 3 to 300 K. Data given graphically. Phase Changes c,III/c,II 20.2 K, c,II/c,I 36.8 K, Anomalous region: 18.5 to 22.5 K. c,II/c,I 36.8 K, Anomalous region: 28 to 44 K. Molecular Weight 164.2900 Wiswesser Line Notation RR &1A-E/H-2 5 &2A-E/H-2 5 Evaluation A	83ATA/SAI $\Delta H = 0.18 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 4.61 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.128 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₁H₂₀O₃Si₃ (liq) 1,1,1,3,5,5,5-Heptamethyl-3-phenyltrisiloxane Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c/liq 226.84 K, Molecular Weight 284.5337 Wiswesser Line Notation T6-SI-O-SI-O-SI-OJ A1 A1 C1 C1 E1 ER Evaluation A Data given for glassy state from 5 to 226.8 K. Glass transition at 150 K.	84DZH/KUL $C_p = 519.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 620.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18293 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 80.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂F₁₀ (c) Decafluorobiphenyl; Perfluorobiphenyl Heat Capacity 298.15 K, Temperature range 3 to 300 K. Entropy 298.15 K, Molecular Weight 334.1160 Wiswesser Line Notation FR BF CF DF EF FR BF CF DF EF FF Evaluation A	87SAI/ATA $C_p = 317.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 377.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₁H₂₂O (liq) 6-Undecanone Heat Capacity 298.15 K, One temperature. An estimate. Molecular Weight 170.2942 Wiswesser Line Notation 5V5 Evaluation B	70HAR/HEA $C_p = 362.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₇Cl₂NO₃ (c) 2,4-Dichloro-4'-nitrodiphenyl ether Phase Changes c/liq 343 K, liq/g 643 K, Molecular Weight 284.0982 Wiswesser Line Notation WNR DOR BG DG Evaluation C	81VOR/BOR $\Delta H = 2700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 115900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 180.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₁H₂₄O (liq) 2-Oxadodecane; Methyl- <i>n</i> -decyl ether Heat Capacity 298.15 K, One temperature. Molecular Weight 172.3100 Wiswesser Line Notation 1001 Evaluation B	75FEN/HAR $C_p = 370.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₈Cl₂O₂S (c) 4,4'-Dichlorodiphenyl sulphone Heat Capacity 298.15 K, Temperature range 14 to 480 K. Entropy 298.15 K, Phase Changes c/liq 422 K, Molecular Weight 287.1600 Wiswesser Line Notation GR DSWR DG Evaluation A	85NOV/TSV $C_p = 269.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 314.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 24400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 57.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂Cl₁₀ (c) Decachlorobiphenyl; Perchlorobiphenyl Heat Capacity 298.15 K, Temperature range 3 to 300 K. Entropy 298.15 K, Molecular Weight 498.6620 Wiswesser Line Notation GR BG CG DG EG FR BG CG DG EG FG Evaluation A	87SAI/ATA $C_p = 344.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 455.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

<p>C₁₂H₂Cl₄Si₂ (c) 74GEI/DZH <i>o,o'</i>-Bis-trichlorosilylbiphenyl Heat Capacity Temperature range 12 to 370 K. Deposited in VINITI, No 7671-73, 21 December 1973. Entropy 298.15 K, $S = 348.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes <i>c,II/c,I</i> 289.5 K, $\Delta H = 57.7 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ <i>trans-cis</i> conformational transition. <i>c,I/liq</i> 339.18 K, $\Delta H = 20719 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 350.1782 Wiswesser Line Notation G-SI-GGR BR B-SI-GGG Evaluation A</p>	<p>C₁₂H₁₀ (c) 1889EYK Biphenyl; Diphenyl Phase Changes <i>c/liq</i> 314.3 K, $\Delta H = 18945 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 154.2110 Wiswesser Line Notation RR Evaluation C</p>
<p>C₁₂H₃F₂ (c) 86SAI/ATA 4,4'-Difluorobiphenyl Heat Capacity 298.15 K, $C_p = 222.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 3 to 300 K. Entropy 298.15 K, $S = 237.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes <i>liq/g</i> 298.15 K, $\Delta H = 91200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 305 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $p = 0.5092 \text{ Pa}$, data from 64SMI/GOR. Molecular Weight 190.1920 Wiswesser Line Notation FR DR DF Evaluation A</p>	<p>C₁₂H₁₀ (c) 79SMI Biphenyl; Diphenyl Phase Changes <i>c/liq</i> 344.1 K, $\Delta H = 18800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 154.2110 Wiswesser Line Notation RR Evaluation A</p>
<p>C₁₂H₈S (c) 83ORO/MRA Dibenzothiophene Heat Capacity 298.15 K, $C_p = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 220 to 560 K. $C_p = 0.6709 (T/K) - 5.4 (220 \text{ to } 371.0 \text{ K}) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Phase Changes <i>c/liq</i> 371.0 K, $\Delta H = 21580 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 184.2552 Wiswesser Line Notation T B656 HSJ Evaluation A $C_p(\text{liq}) = 0.4215 (T/K) + 123.8 (370.1 \text{ to } 560 \text{ K}) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.</p>	<p>C₁₂H₁₀ (c) 82WAS/RAD Biphenyl; Diphenyl Heat Capacity 300 K, $C_p = 190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 180 to 350 K. Data given graphically. Value estimated from graph. Phase Changes <i>c,I/liq</i> 343.3 K, $\Delta H = 19900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 154.2110 Wiswesser Line Notation RR Evaluation C(C_p), B(Phase changes)</p>
<p>C₁₂H₂Cl (c) 75GEI/DZH <i>p</i>-Chlorobiphenyl Heat Capacity 298.15 K, $C_p = 243.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 12 to 370 K. Entropy 298.15 K, $S = 256.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes <i>c/liq</i> 348.55 K, $\Delta H = 13318 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 38.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 188.6561 Wiswesser Line Notation GR DR Evaluation A $T/\text{Debye} = 91 \text{ K}$; see also 77GEI/KAR.</p>	<p>C₁₂H₁₀ (c) 83ATA/SAI Biphenyl; Diphenyl Phase Changes <i>c,III/c,II</i> 16.8 K, $\Delta H = 0.15 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Anomalous region: 15.3 to 18.3 K. <i>c,II/c,I</i> 40.4 K, $\Delta H = 5.02 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Anomalous region: 30 to 47 K. Molecular Weight 154.2110 Wiswesser Line Notation RR Evaluation A</p>
<p>C₁₂H₃Cl₃Si (c) 76GEI/DZH <i>p</i>-Trichlorosilylbiphenyl Heat Capacity 298.15 K, $C_p = 291.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 12 to 380 K. Entropy 298.15 K, $S = 328.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes <i>c,II/c,I</i> Anomaly on heat capacity curve from 207 to 221 K. <i>c/liq</i> 372.90 K, $\Delta H = 18569 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 49.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 287.6476 Wiswesser Line Notation G-SI-GGR DR Evaluation A See also 77GEI/KAR.</p>	<p>C₁₂H₁₀ (c) 83ORO/MRA Biphenyl; Diphenyl Heat Capacity 298.15 K, $C_p = 197.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 220 to 475 K. $C_p = 0.7143 (T/K) - 15.3 (220 \text{ to } 342.2 \text{ K}) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Phase Changes <i>c/liq</i> 342.2 K, $\Delta H = 18580 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 154.2110 Wiswesser Line Notation RR Evaluation A $C_p(\text{liq}) = 0.4284 (T/K) + 122.0 (342.2 \text{ to } 485 \text{ K}) \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.</p>

C₁₂H₁₀ (c)	88SAI/ATA	C₁₂H₁₀O₂ (c)	86SAI/ATA2
Biphenyl; Diphenyl		<i>p,p'</i> -Biphenol; 4,4'-Dihydroxybiphenyl	
Heat Capacity 298.15 K, Temperature range 3 to 300 K.	$C_p = 198.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 3 to 315 K.	$C_p = 224.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 209.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 220.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 186.2098	
c,III/c,II 16.8 K,	$\Delta H = 0.15 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.009 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation QR DR DQ	
Lock-in transition.		Evaluation A	
c,II/c,I 40.4 K,	$\Delta H = 5.02 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Twist transition.		C₁₂H₁₂ (c,I)	88MES/FIN
Molecular Weight 154.2110		2,3-Dimethylnaphthalene	
Wiswesser Line Notation RR		Heat Capacity 298.15 K, Temperature range 10 to 400 K.	$C_p = 216.466 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Entropy 298.15 K,	$S = 225.853 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
C₁₂H₁₀ (c)	89CHI/KNI	c,III/c,II 226.000 K,	$\Delta H = -0.58 \text{ J}\cdot\text{mol}^{-1}$
Biphenyl; Diphenyl		c,II/c,I 265.000 K,	$\Delta H = -1.08 \text{ J}\cdot\text{mol}^{-1}$
Heat Capacity 298.15 K, Temperature Range 5 to 700 K	$C_p = 198.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 377.496 K,	$\Delta H = 19353.29 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 51.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 209.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes		Molecular Weight 156.2268	
c/liq 342.098 K,	$\Delta H = 2234.14 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.5307 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation L66J C1 D1	
c/g 298.15 K	$\Delta H = 81520 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 273.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Molecular Weight 154.2110			
Wiswesser Line Notation RR		C₁₂H₁₂CrBr (c)	72NIK/SAF
Evaluation A		Bis(benzene)chromium bromide	
		Heat Capacity 298.15 K, Temperature range 60 to 298.15 K.	$C_p = 328.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Entropy 298.15 K,	$S = 339.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
		c,II/c,I 234.6 K	
		Molecular Weight 288.1268	
		Wiswesser Line Notation L60J Ø-CR-- ØL60J &E	
		Evaluation B	
C₁₂H₁₀Cr (c)	69AND/WES		
Bis(benzene)chromium		C₁₂H₁₂CrCl (c)	72NIK/SAF
Heat Capacity 298.15 K, Temperature range 5 to 350 K.	$C_p = 223.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Bis(benzene)chromium chloride	
Entropy 298.15 K,	$S = 226.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K, Temperature range 60 to 298.15 K.	$C_p = 323.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 206.2070		Entropy 298.15 K,	$S = 335.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation L60J Ø-CR-- ØL60J		Phase Changes	
Evaluation A		c,II/c,I 178.75 K,	$\Delta H = 1820 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 10.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 243.6758	
		Wiswesser Line Notation L60J Ø-CR-- ØL60J &G	
		Evaluation B	
C₁₂H₁₀N₂ (c)	84VAN/BOU		
<i>trans</i> -Azobenzene		C₁₂H₁₂CrI (c)	72NIK/SAF
Heat Capacity 300 K, Temperature range 90 to 320 K.	$C_p = 229.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Bis(benzene)chromium iodide	
Phase Changes		Heat Capacity 298.15 K, Temperature range 60 to 298.15 K.	$C_p = 249.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 341.03 K,	$\Delta H = 22520 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 66.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 289.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 182.2244		Phase Changes	
Wiswesser Line Notation RNUNR -T		c,II/c,I 240.6 K,	$\Delta H = 1695 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Molecular Weight 335.1273	
		Wiswesser Line Notation L60J Ø-CR-- ØL60J &I	
		Evaluation B	
C₁₂H₁₀N₂ (c)	85BOU/DEL		
<i>trans</i> -Azobenzene		C₁₂H₁₂N₂O (c)	77KAR/BAZ
Heat Capacity 300 K, Temperature range 300 to 400 K.	$C_p = 229.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	4,4'-Diaminodiphenylether	
Phase Changes		Heat Capacity 300 K, Temperature range 60 to 400 K.	$C_p = 258.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 341.06 K,	$\Delta H = 22530 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 66.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 241.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 182.2244		Molecular Weight 200.2396	
Wiswesser Line Notation RNUNR -T		Wiswesser Line Notation ZR DOR DZ	
Evaluation A		Evaluation B	
C₁₂H₁₀N₂ (c)	1889EYK		
Azobenzene			
Phase Changes			
c/liq 342.2 K,	$\Delta H = 22389 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 182.2244			
Wiswesser Line Notation RNUNR			
Evaluation C			

<p>C₁₂H₁₂N₂O (c) 87LES/LIC 4,4'-Diaminodiphenyl oxide; 4,4'-Diaminodiphenyl ether Heat Capacity 298 K, $C_p = 278.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 250 to 400 K. Phase Changes c/liq 464 K Molecular Weight 200.2396 Wiswesser Line Notation ZR DOR DZ Evaluation B</p>	<p>C₁₂H₁₅NO₂ (liq) 85KAR/ABD2 Phenylaminoethyl methacrylate Phase Changes c/liq 297.5 K, $\Delta H = 25465 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 85.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 205.2560 Wiswesser Line Notation IUY1&VO2MR Evaluation A</p>
<p>C₁₂H₁₂N₂O₂S (c) 87LES/LIC 4,4'-Diaminodiphenyl sulfone Heat Capacity 298 K, $C_p = 314.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 250 to 400 K. Phase Changes c/liq 451 K Molecular Weight 248.2990 Wiswesser Line Notation ZR DSWR DZ Evaluation B</p>	<p>C₁₂H₁₆ (liq) 83ORO/MRA Cyclohexylbenzene Heat Capacity 198.15 K, $C_p = 263.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 220 to 475 K. $C_p(\text{c}) = 0.8803 (T/\text{K}) - 29.2$ (220 to 280.5 K); $C_p(\text{liq}) = 0.6130 (T/\text{K}) + 80.4$ (280.5 to 475 K) $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Phase Changes c/liq 280.5 K, $\Delta H = 15270 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 54.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 160.2584 Wiswesser Line Notation L6TJ AR Evaluation A</p>
<p>C₁₂H₁₂N₄O (c) 77KAR/RAB 3,3',4,4'-Tetraaminodiphenyl ether Heat Capacity 300 K, $C_p = 400 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 100 to 700 K. Data given graphically. Value estimated from graph. Entropy 300 K, $S = 293.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 402.6 K, $\Delta H = 25301 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 228.2532 Wiswesser Line Notation ZR BZ DOR CZ DZ Evaluation C(C_p),A,(S,Phase changes).</p>	<p>C₁₂H₁₈ (c) 82ATA/GYO Hexamethylbenzene Heat Capacity 300 K, $C_p = 252.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 3 to 300 K. Entropy 300 K, $S = 302.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,III/c,II 117.5 K, $\Delta H = 990 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ First order transition. Molecular Weight 162.2742 Wiswesser Line Notation 1R B1 C1 D1 E1 F1 Evaluation A An additional thermal anomaly producing a hump in the heat capacity curve with a maximum of $50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ at 128 K is hidden behind the first order transition.</p>
<p>C₁₂H₁₂O₄ (c) 89KIR/CHU 1,4-Dimethylcubane dicarboxylate Heat Capacity 298.15 K, $C_p = 251.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. Phase Changes c/liq 437.8 K, $\Delta H = 41000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 220.2250 Wiswesser Line Notation L444 B4 D4 4ABCD HTJ AVO1 HVO1 Evaluation B</p>	<p>C₁₂H₁₈ (c) 85YOS/FUJ Hexamethylbenzene Phase Changes c,II/c,I 115.5 K, $\Delta H = 1103 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 162.2742 Wiswesser Line Notation 1R B1 C1 D1 E1 F1 Evaluation A</p>
<p>(C₁₂H₁₂O₄)_n (gls) 88CHE/PAN Poly(butylene terephthalate) Heat Capacity 280 K, $C_p = 254 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 210 to 560 K. Data given graphically. $C_p (\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}) = 0.000713 T^2 + 0.5203 T$ $+ 52.16$ (220 to 280 K) for semicrystal. Phase Changes c,III/c,II 248 K Glass transition for amorphous sample. c,II/c,I 320 K Glass transition for semicrystalline sample. c,I/liq 518 K Molecular Weight 220.2244 Wiswesser Line Notation /*OVR DVO4*/ Evaluation B</p>	<p>C₁₂H₁₈Be₄O₁₃ (c) 47JAF Beryllium oxyacetate Heat Capacity 298.95 K, $C_p = 553.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 297 to 332 K. Unsmoothed experimental datum. Molecular Weight 406.3151 Wiswesser Line Notation OV1 6 .BE 4 &O Evaluation C</p>

C₁₂H₁₈Be₄O₁₃ (c) Beryllium oxyacetate Heat Capacity 298.85 K, Temperature range 273 to 370 K. Unsmoothed experimental datum. Phase Changes c,II/c,I 315 K Lambda type transition at 315 K. Transitions also indicated at 305, 350 and 398 K. c,I/liq 421 K, Molecular Weight 406.3151 Wiswesser Line Notation OV1 6 .BE 4 &O Evaluation B(C _p), A(Phase changes)	55MOM/SEK $C_p = 514.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 27196 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₂O₂ (liq) Octyl methacrylate Phase Changes c/liq 230.3 K, Molecular Weight 198.3046 Wiswesser Line Notation 8OVY1&U1 Evaluation A	85KAR/ABD2 $\Delta H = 24085 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₁₈O₂ (liq) Acetophenone diethyl ketal Heat Capacity 298 K, Temperature range 60 to 340 K. C _p data calculated from equation: C _p = (475)(0.71198 - 0.000908T). Molecular Weight 194.2730 Wiswesser Line Notation 2OX1&O2&R Evaluation D	77KAR/SAP $C_p = 210 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₂O₂ (liq) Nonyl acrylate Phase Changes c/liq 236.5 K, Molecular Weight 198.3046 Wiswesser Line Notation 9OV1U1 Evaluation A	85KAR/ABD2 $\Delta H = 23362 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 98.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₁₈O₂ (gls) Acetophenone diethyl ketal Entropy 298.15 K, Molecular Weight 194.2730 Wiswesser Line Notation 2OX1&O2&R Evaluation A T(glass) = 173.2 K.	78KAR/SAP $S = 364.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₂O₆ (liq) Oligoethylene butylene glycol adipate; 1,4-Butylene glycol-ethylene glycol-adipic acid oligomer Heat Capacity 298.15 K, Temperature range 5 to 330 K. C _p = 1.839 kJ·kg ⁻¹ ·K ⁻¹ at 298.15 K. Entropy 298.15 K, S° = 1.796 kJ·kg ⁻¹ ·K ⁻¹ at 298.15 K. Phase Changes gls/liq 207 K Molecular Weight 262.3022 Wiswesser Line Notation Q4OV4VO2Q Evaluation A Data for glassy oligomer to liquid oligomer.	82BAB/RAB $C_p = 482.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 471.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11565 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₀O₆ (liq) Tripropionin Heat Capacity 298.15 K, One temperature. Molecular Weight 260.2864 Wiswesser Line Notation 2VO1YO2&1OV2 Evaluation A	86NIL/WAD $C_p = 481.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₂O₆ (liq) Oligoethylene butylene glycol adipate; 1,4-Butylene glycol-ethylene glycol-adipic acid oligomer Heat Capacity 298.15 K, Temperature range 5 to 330 K. C _p = 1.839 kJ·kg ⁻¹ ·K ⁻¹ at 298.15 K. Entropy 298.15 K, S° = 2.009 kJ·kg ⁻¹ ·K ⁻¹ at 298.15 K. Phase Changes c,I/liq 290.7 K, Molecular Weight 262.3022 Wiswesser Line Notation Q4OV4VO2Q Evaluation A Data for crystalline oligomer to liquid oligomer.	82BAB/RAB $C_p = 482.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 527.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 32709 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 112.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₂ (liq) Bicyclohexyl Heat Capacity 298.15 K, Temperature range 220 to 475 K. C _p = 0.7589 (T/K) + 56.7 (277.2 to 475 K) J·mol ⁻¹ ·K ⁻¹ . Phase Changes c,IV/c,III 256.1 K, c,III/c,II 267.5 K, c,II/c,I 273.5 K, c,I/liq 277.2 K, Molecular Weight 166.3058 Wiswesser Line Notation L6TJ A- AL6TJ Evaluation A	83ORO/MRA $C_p = 283.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1540 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 740 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 7080 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 6780 \text{ J}\cdot\text{mol}^{-1}$	C₁₂H₂₂O₁₁ (c) Sucrose; Cane sugar Heat Capacity 298 K, One temperature. C _p given as 0.301 cal·g ⁻¹ ·K ⁻¹ . Molecular Weight 342.2992 Wiswesser Line Notation T6OTJ B1Q CQ DQ EQ FO- BT5OTJ B1Q CQ DQ E1Q-A&BD -B&CEF-A&BD -B&CE Evaluation D	03MAG $C_p = 431.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₂O₂ (liq) Octyl methacrylate Heat Capacity 298.15 K, Temperature range 230 to 350 K. C _p (J·kg ⁻¹ ·K ⁻¹) = 1261.8 + 2.2971 T. C _p data calculated from equation. Phase Changes c/liq 230.3 K Molecular Weight 198.3046 Wiswesser Line Notation 8OVY1&U1 Evaluation B	85KAR/ABD $C_p = 386.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₂O₁₁ (c) Maltose Heat Capacity 298 K, One temperature. C _p given as 0.322 cal·g ⁻¹ ·K ⁻¹ . Molecular Weight 342.2992 Wiswesser Line Notation T6OTJ BQ CQ DQ F1Q EO- BT6OTJ CQ DQ EQ F1Q-A&CE -B&BDF-A&BCE-B&DF Evaluation D	03MAG $C_p = 461.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₁₂H₂₂O₁₁ (c)	03MAG	C₁₂H₂₆ (liq)	81GRO/ING
Lactose, anhydrous; Milk sugar		<i>n</i> -Dodecane	
Heat Capacity 298 K,	$C_p = 412.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 374.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		One temperature.	
C_p given as $0.288 \text{ cal}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.		Molecular Weight 170.3374	
Molecular Weight 342.2992		Wiswesser Line Notation 12H	
Wiswesser Line Notation T6OTJ BQ CQ DQ F1Q EO-		Evaluation B	
BT6OTJ CQ DQ EQ F1Q-A&CE -B&BDF-A&C-B&BDEF			
Evaluation D			
C₁₂H₂₃O₂Tl (c)	76MEI/SEY	C₁₂H₂₆ (liq)	82ZAR
Thallium <i>n</i> -dodecanoate		<i>n</i> -Dodecane	
Phase Changes		Heat Capacity 298 K,	$C_p = 374.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 312 K,	$\Delta H = 3807 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 298, 323, 363 K.	
	$\Delta S = 12.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 170.3374	
c,II/c,I 354 K,	$\Delta H = 2427 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 12H	
	$\Delta S = 6.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
liq/liq 471 K,	$\Delta H = 1925 \text{ J}\cdot\text{mol}^{-1}$		
Mesophase-isotropic.	$\Delta S = 4.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₆ (liq)	84GRO/BEN
c,I/liq 398 K,	$\Delta H = 5858 \text{ J}\cdot\text{mol}^{-1}$	<i>n</i> -Dodecane	
	$\Delta S = 14.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 375.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid-mesophase.		One temperature.	
Molecular Weight 403.6825		Molecular Weight 170.3374	
Wiswesser Line Notation OV11 .TL		Wiswesser Line Notation 12H	
Evaluation B		Evaluation B	
C₁₂H₂₃O₂Tl (c)	87LOP/WES	C₁₂H₂₆ (liq)	84KUM/BEN
Thallium <i>n</i> -dodecanoate		<i>n</i> -Dodecane	
Heat Capacity 298.15 K,	$C_p = 471.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 375.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 7 to 470 K.		One temperature.	
Entropy 298.15 K,	$S = 451.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 170.3374	
Phase Changes		Wiswesser Line Notation 12H	
c,VI/c,V 283.0 K,	$\Delta H = 1829 \text{ J}\cdot\text{mol}^{-1}$	Evaluation B	
	$\Delta S = 6.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₆ (liq)	84ROU/GRO
c,V/c,IV 285.2 K,	$\Delta H = 2087 \text{ J}\cdot\text{mol}^{-1}$	<i>n</i> -Dodecane	
	$\Delta S = 7.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 374.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,IV/c,III 293.6 K,	$\Delta H = 1413 \text{ J}\cdot\text{mol}^{-1}$	One temperature.	
	$\Delta S = 4.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 170.3374	
c,III/c,II 312.3 K,	$\Delta H = 4490 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 12H	
	$\Delta S = 14.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
c,II/c,I 356.6 K,	$\Delta H = 2054 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 5.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₆ (liq)	86TAR/AIC
c,I/liq 400.1 K,	$\Delta H = 5454 \text{ J}\cdot\text{mol}^{-1}$	<i>n</i> -Dodecane	
	$\Delta S = 13.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 376.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid-mesophase.		One temperature.	
liq/liq 471.6 K,	$\Delta H = 1971 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 170.3374	
	$\Delta S = 4.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 12H	
Mesophase-isotropic liquid.		Evaluation B	
Molecular Weight 403.6825			
Wiswesser Line Notation OV11 .TL			
Evaluation A			
C₁₂H₂₄O₂ (c)	86KAL/JAC	C₁₂H₂₆ (liq)	86WIL/LAI
Butyl octadecanoate		<i>n</i> -Dodecane	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 373.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 288.4 K,	$\Delta H = 2220 \text{ J}\cdot\text{mol}^{-1}$	One temperature.	
	$\Delta S = 7.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 170.3374	
c,I/liq 299.72 K,	$\Delta H = 37480 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 12H	
	$\Delta S = 121.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 200.3204			
Wiswesser Line Notation 7VO4		C₁₂H₂₆ (liq)	88COS/HUU
Evaluation A		<i>n</i> -Dodecane	
		Heat Capacity 298.15 K,	$C_p = 376.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
		Molecular Weight 170.3374	
		Wiswesser Line Notation 12H	
		Evaluation B	

C₁₂H₂₆ (liq) <i>n</i> -Dodecane Heat Capacity 298.15 K, One temperature. Molecular Weight 170.3374 Wiswesser Line Notation 12H Evaluation A	88PER/AIC $C_p = 376.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₈S (liq) 1-Dodecanethiol; <i>n</i> -Dodecyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 423.01 + 3.878 \times 10^{-2} T + 9.070 \times 10^{-5} T^2$. Molecular Weight 204.4132 Wiswesser Line Notation SH12 Evaluation B	82TUT/GAB $C_p = 442.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₆ (liq) 2,2,4,6,6-Pentamethylheptane Heat Capacity 298.15 K, One temperature. Molecular Weight 170.3374 Wiswesser Line Notation 1X1&1&1Y1&1X1&1&1 Evaluation B	88COS/HUU $C_p = 350.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₃₀O₃Si₃ (liq) 1,1,3,3,5,5-Hexaethylcyclotrisiloxane Heat Capacity 298.15 K, Temperature range 14 to 330 K. Entropy 298.15 K, Phase Changes c,III/c,II 140–160 K, Glassy transition. c,II/c,I 242.3 K, c,I/liq 283.41 K, Molecular Weight 306.6237 Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A2 A2 C2 C2 E2 E2 Evaluation A	82KUL/LEB $C_p = 535.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 674.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 470 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11940 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₆ (liq) 2,2,4,6,6-Pentamethylheptane Heat Capacity 298.15 K, One temperature. Molecular Weight 170.3374 Wiswesser Line Notation 1X1&1&1Y1&1X1&1&1 Evaluation A	88PER/AIC $C_p = 350.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₃₀O₃Si₃ (liq) 1,1,3,3,5,5-Hexaethylcyclotrisiloxane Heat Capacity 298.15 K, Temperature range 13 to 300 K. Entropy 298.15 K, Phase Changes c,III/c,II 140–168 K, Glassy transition. c,II/c,I 242.3 K, c,I/liq 283.24 K, Molecular Weight 306.6237 Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A2 A2 C2 C2 E2 E2 Evaluation A	84LEB/KUL $C_p = 535.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 671.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 470 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11940 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₆O₅ (liq) Tetrapropylene glycol Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 250.3344 Wiswesser Line Notation QYOYOYOYQ Evaluation B	82ZAR $C_p = 560.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₃₀O₃Si₃ (liq) 1,1,3,3,5,5-Hexaethylcyclotrisiloxane Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c,III/c,II 160 K, c,II/c,I 242.3 K, c,I/liq 280.2 K, Molecular Weight 306.6237 Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A2 A2 C2 C2 E2 E2 Evaluation A	85DZH/KUL $C_p = 581.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 680.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 462 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11824 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11424 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 40.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₆O₇ (liq) Hexaethylene glycol Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 282.3332 Wiswesser Line Notation Q2O2O2O2O2O2Q Evaluation B	82ZAR $C_p = 620.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₂₇O₄P (liq) Tri- <i>n</i> -butylphosphate Heat Capacity 298.15 K, Temperature range 283 to 423 K. C_p given as $1.404 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ at 20 °C and $1.445 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ at 30 °C. Molecular Weight 266.3167 Wiswesser Line Notation OPO4&O4&O4 Evaluation B	81NAZ/RUD $C_p = 379.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₂H₂₈ClN (c) Di- <i>n</i> -hexylammonium chloride Heat Capacity 300.92 K, Temperature range 25 to 350 K. Unsmoothed experimental datum. Phase Changes c,III/c,II 115.25 K, c,II/c,I 279.39 K, Molecular Weight 221.8129 Wiswesser Line Notation 6M6 &GH Evaluation A	88VAN/WHI $C_p = 408.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 908 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 15950 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 57.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₂H₃₀O₃Si₃ (liq) 1,1,3,3,5,5-Hexaethylcyclotrisiloxane Heat Capacity 300 K, Temperature range 13.4 to 350 K. Entropy 300 K, Phase Changes c,III/c,II 140–168 K, c,II/c,I 242.4 K, c,I/liq 283.41 K, Molecular Weight 306.6237 Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A2 A2 C2 C2 E2 E2 Evaluation A	88LEB/KUL $C_p = 536.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 674.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 470.0 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11730.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 11940.3 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 42.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₁₂H₃₂Cr₄N₁₂O₁₈S₃·10H₂O (c)	72MOR/SEK	C₁₃H₉N (c)	88STE/CHI
Hexahydroxyhexaethylenediamine chromium sulfate decahydrate		Phenanthridine	
Heat Capacity 197.459 K,	$C_p = 1001.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 201.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 1.4 to 200 K.		Temperature range 5 to 500 K.	
Unsmoothed experimental datum.		Entropy 298.15 K,	$S = 205.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 1136.9284		Phase Changes	
Wiswesser Line Notation CR 4 & Q 6 & Z2Z 6 & S-O4*3 & QH 10		c,II/c,I 354.0 K,	$\Delta H = 20.79 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A		Extrapolated value.	$\Delta S = 0.059 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq 379.74 K,	$\Delta H = 22831 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 60.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 179.2208	
		Wiswesser Line Notation T B666 HNJ	
		Evaluation A	
C₁₃H₈Cl₂O (c)	87ECO/BER	C₁₃H₉N (c)	89STE/CHI
<i>p</i> -Dichlorobenzophenone		Phenanthridine	
Heat Capacity		Heat Capacity 298.15 K,	$C_p = 201.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 175 to 205 K.		Temperature range 5 to 500 K.	
Data given graphically.		Entropy 298.15 K,	$S = 205.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,III/c,II 186.1 K,	$\Delta H = 146 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 354.0 K,	$\Delta H = 20.79 \text{ J}\cdot\text{mol}^{-1}$
c,II/c,I 189.5 K,	$\Delta H = 251 \text{ J}\cdot\text{mol}^{-1}$	Extrapolated value.	$\Delta S = 0.059 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 251.1116		c,I/liq 379.74 K,	$\Delta H = 22831 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation GR DVR DG			$\Delta S = 60.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Molecular Weight 179.2208	
		Wiswesser Line Notation T B666 HNJ	
		Evaluation A	
C₁₃H₉N (c)	88STE/CHI	C₁₃H₉N (c)	86STE/CHI
7,8-Benzoquinoline		Acridine	
Heat Capacity 298.15 K,	$C_p = 206.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 204.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 500 K.		Temperature range 6 to 450 K.	
Entropy 298.15 K,	$S = 213.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 208.00 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 324.104 K,	$\Delta H = 14103 \text{ J}\cdot\text{mol}^{-1}$	c/liq 383.243 K	
	$\Delta S = 43.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 179.2208	
Molecular Weight 179.2208		Wiswesser Line Notation T C666 BNJ	
Wiswesser Line Notation T B666 CNJ		Evaluation A	
Evaluation A			
C₁₃H₉N (c)	89STE/CHI	C₁₃H₉N (c)	88STE/CHI
7,8-Benzoquinoline		Acridine	
Heat Capacity 298.15 K,	$C_p = 206.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 205.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 500 K.		Temperature range 5 to 500 K.	
Entropy 298.15 K,	$S = 213.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 208.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 324.104 K,	$\Delta H = 14103 \text{ J}\cdot\text{mol}^{-1}$	c/liq 383.242 K,	$\Delta H = 20682 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 43.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 53.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 179.2208		Molecular Weight 179.2208	
Wiswesser Line Notation T B666 CNJ		Wiswesser Line Notation T C666 BNJ	
Evaluation A		Evaluation A	
C₁₃H₉N (c)	86STE/CHI	C₁₃H₉N (c)	89STE/CHI
Phenanthridine		Acridine	
Heat Capacity 298.15 K,	$C_p = 201.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 205.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 6 to 450 K.		Temperature range 5 to 500 K.	
Entropy 298.15 K,	$S = 205.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 208.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I 354.16 K		c/liq 383.242 K,	$\Delta H = 20682 \text{ J}\cdot\text{mol}^{-1}$
c,I/liq 379.742 K			$\Delta S = 53.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 179.2208		Molecular Weight 179.2208	
Wiswesser Line Notation T B666 HNJ		Wiswesser Line Notation T C666 BNJ	
Evaluation A		Evaluation A	

C₁₃H₁₀N₂ (liq)	84LEB/BYK	C₁₃H₁₁N (c)	88MES/TOD
Diphenylcarbodiimide		N-Methylcarbazole	
Heat Capacity 298.15 K,	$C_p = 304.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.150 K,	$C_p = 217.838 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 13.8 to 330 K.		Temperature range 10 to 400 K.	
Entropy 298.15 K,	$S = 330.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.150 K,	$S = 234.300 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq 287.41 K,	$\Delta H = 18550 \text{ J}\cdot\text{mol}^{-1}$	c/liq 362.490 K,	$\Delta H = 17153.71 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 64.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 47.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 194.2354		Molecular Weight 181.2366	
Wiswesser Line Notation RNUCUNR		Wiswesser Line Notation T B656 HNJ H1	
Evaluation A		Evaluation A	
Data also given for the vitreous state and supercooled liquid from 5 to 287.41 K. $T(\text{glass}) = 190 \pm 1 \text{ K}$.			
C₁₃H₁₀O (c)	1889EYK	C₁₃H₁₂ (c)	1889EYK
Benzophenone		Diphenylmethane	
Phase Changes		Phase Changes	
c/liq 321.2 K,	$\Delta H = 17669 \text{ J}\cdot\text{mol}^{-1}$	c/liq 299.4 K,	$\Delta H = 19050 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 55.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 168.2378	
Molecular Weight 182.2214		Wiswesser Line Notation R1R	
Wiswesser Line Notation RVR		Evaluation C	
Evaluation C		C₁₃H₁₂ (c)	86CHI/ANN
		Diphenylmethane	
		Phase Changes	
		c/liq	$\Delta H = 19246 \text{ J}\cdot\text{mol}^{-1}$
		c/g	$\Delta H = 83262 \text{ J}\cdot\text{mol}^{-1}$
		Molecular Weight 168.2378	
		Wiswesser Line Notation R1R	
		Evaluation A	
C₁₃H₁₀O (c)	83DEK/VAN	C₁₃H₁₂D₁₀FeN₆S₃ (c)	86SOR/SHI
Benzophenone		Ferrocene- <i>d</i> ₁₀ thiourea clathrate (1:3)	
Heat Capacity 300 K,	$C_p = 224.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 510 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 80 to 345 K.		Temperature range 13 to 300 K.	
Phase Changes		Data given graphically.	
c/liq 321.03 K,	$\Delta H = 18194 \text{ J}\cdot\text{mol}^{-1}$	Value given is an estimate from graph.	
	$\Delta S = 56.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 182.2214		c,VI/c,V 145.8 K,	$\Delta H = 57 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation RVR			$\Delta S = 0.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		c,V/c,IV 160.6 K,	$\Delta H = 1762 \text{ J}\cdot\text{mol}^{-1}$
$C_p(\text{c}) = 40.42 + 0.4252 (T/K) + 6.27021 \times 10^{-4} (T/K)^2$ (80 to 290 K) $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.			$\Delta S = 10.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_p(\text{liq}) = 150.19 + 0.4576 (T/K)$ (280 to 350 K) $\text{J}\cdot\text{mol}^{-1}$.		c,IV/c,III 173.4 K,	$\Delta H = 11 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 0.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,III/c,II 187.1 K,	$\Delta H = 31 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 0.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,II/c,I 219.0 K,	$\Delta H = 57 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 0.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 424.4630	
		Wiswesser Line Notation L5ØJ Ø-FE-- ØL5ØJ & ZYZUS 3 & 1/H-2 5 & 14/H-2 5	
		Evaluation A	
C₁₃H₁₁N (c)	86STE/CHI	C₁₃H₁₂N₂O (c)	87FER/DEL
N-Methylcarbazole		1,3-Diphenylurea	
Heat Capacity 298.15 K,	$C_p = 217.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 10 to 400 K.		c/liq 512.1 K,	$\Delta H = 34620 \text{ J}\cdot\text{mol}^{-1}$
Entropy 298.15 K,	$S = 234.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Molecular Weight 212.2506	
c/liq 362.490 K,	$\Delta H = 17153.8 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation RNVNR	
	$\Delta S = 47.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Molecular Weight 181.2366		C₁₃H₁₄N₂ (c)	87LES/LIC
Wiswesser Line Notation T B656 HNJ H1		Bis(4-aminophenyl)methane	
Evaluation A		Heat Capacity 298 K,	$C_p = 270.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 250 to 400 K.	
		Phase Changes	
		c/liq 366 K	
		Molecular Weight 198.2670	
		Wiswesser Line Notation ZR D1R DZ	
		Evaluation B	

C₁₃H₁₄N₂O₂ (c)	86KAR/BAB	C₁₃H₂₄O₂ (c)	81LEB/EVS
3,3'-Methylene bis(6-aminophenol)		Tridecanolactone	
Heat Capacity 298.15 K,	$C_p = 281.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 398.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 470 K.		Temperature range 5 to 400 K.	
Entropy 298.15 K,	$S = 284.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 401.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 230.2658		Phase Changes	
Wiswesser Line Notation ZR BQ D1R CQ DZ		c,II/c,I	290.63 K,
Evaluation A			$\Delta H = 18150 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 62.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq	300.4 K,
			$\Delta H = 9060 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 30.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₃H₁₅NO (liq)	86ACH/HAS	Molecular Weight 212.3314	
1-(1-Isocyanato-1-methylethyl)-3-(1-methylethenyl)benzene		Wiswesser Line Notation T-14-VOTJ	
Heat Capacity 333 K,	$C_p = 382 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 333, 433 K.			
$C_p = 1.9 \text{ J}\cdot\text{g}^{-1}\cdot\text{C}^{-1}$.			
Molecular Weight 201.2676		(C₁₃H₂₄O₂)_n (c)	81LEB/EVS
Wiswesser Line Notation OCNX2&1&R CYU1&1		Poly(tridecanolactone)	
Evaluation C		Heat Capacity 298.15 K,	$C_p = 329.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
98% purity.		Temperature range 5 to 400 K.	
		Entropy 298.15 K,	$S = 351.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Phase Changes	
C₁₃H₁₅NO (liq)	86ACH/HAS	c,II/c,I	229 K
1-(1-Isocyanato-1-methylethyl)-4-(1-methylethenyl)benzene		Glass/crystal.	
Heat Capacity 333 K,	$C_p = 362 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq	368.1 K,
Temperature range 333, 433 K.			$\Delta H = 46000 \text{ J}\cdot\text{mol}^{-1}$
$C_p = 1.8 \text{ J}\cdot\text{g}^{-1}\cdot\text{C}^{-1}$.			$\Delta S = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 201.2676		Molecular Weight 212.3314	
Wiswesser Line Notation OCNX2&1&R DYU1&1		Wiswesser Line Notation /*OV-14-*/	
Evaluation C		Evaluation A	
91% purity.			
		C₁₃H₂₆O (liq)	88BAG/GUR
C₁₃H₂₀O (liq)	88BAG/GUR	6,10-Dimethyl-2-undecanone	
6,10-Dimethyl-4,5,9-undecatrien-2-one		Heat Capacity 313.55 K,	$C_p = 428.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 313.65 K,	$C_p = 413.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 270 to 340 K.	
Temperature range 270 to 340 K.		Unsmoothed experimental datum.	
Unsmoothed experimental datum.		Molecular Weight 198.3478	
Molecular Weight 192.3004		Wiswesser Line Notation 1Y3Y3V1	
Wiswesser Line Notation 1YU3YU1U2V1		Evaluation B	
Evaluation B			
		C₁₃H₂₈O (c)	83MAS/STE
C₁₃H₂₀O (liq)	88BAG/GUR	tri- <i>tert</i> -Butylmethanol	
6,10-Dimethyl-3,5,9-undecatrien-2-one		Heat Capacity 298.15 K,	$C_p = 350.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 297.85 K,	$C_p = 382.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	One temperature.	
Temperature range 270 to 340 K.		C_p given as $1.75 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$	
Unsmoothed experimental datum.		Phase Changes	
Molecular Weight 192.3004		c,II/c,I	302.17 K,
Wiswesser Line Notation 1YU3YU2U1V1			$\Delta H = 7200 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Solid-plastic.	
		c/liq	390.15 K,
			$\Delta H = 3430 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 8.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 200.3636	
		Wiswesser Line Notation QXX1&1&1&X1&1&1&X1&1&1	
		Evaluation B	
		C₁₄H₉NO₂ (c)	77KAR/BAZ
C₁₃H₂₀O (liq)	88BAG/GUR	Phthalanilic acid	
4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one		Heat Capacity 300 K,	$C_p = 279.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 313.60 K,	$C_p = 388.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 60 to 400 K.	
Temperature range 270 to 340 K.		Entropy 300 K,	$S = 322.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Unsmoothed experimental datum.		Molecular Weight 223.2306	
Molecular Weight 192.3004		Wiswesser Line Notation QVR BVMR	
Wiswesser Line Notation L6 AUTJ A1 B1U1V1C1 C1		Evaluation B	
Evaluation B			
		C₁₄H₁₀ (c)	87RAI/SIN
C₁₃H₂₂O₈ (liq)	83SAN/CIO	Phenanthrene	
Diethylene glycol-glycerol-adipate polymer		Phase Changes	
Heat Capacity 298.15 K,	$C_p = 1287 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq	(373) K,
Temperature range 273.15 to 323.15 K.			$\Delta H = 18627 \text{ J}\cdot\text{mol}^{-1}$
C_p (kJ kg ⁻¹ K ⁻¹) = 0.023598T - 2.835			$\Delta S = 49.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 306.3120		Molecular Weight 178.2330	
Wiswesser Line Notation /*O2O2OV4VO1YQ71O*/		Wiswesser Line Notation L B666J	
Evaluation D		Evaluation B	
Authors did not provide formula for repeating unit of polymer; assumed: glycol-adipate-glycerol, as repeating unit.			

C₁₄H₁₀ (c)	88TOR/BAR	C₁₄H₁₂ (c)	87CHI/HOS2
Phenanthrene		9,10-Dihydroanthracene	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 219.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
liq/g 350 K,	$\Delta H = 87240 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 10 to 500 K.	
	$\Delta S = 249.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 218.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/g 298.15 K,	$\Delta H = 90900 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 304.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq 382.18 K,	$\Delta H = 23840 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 178.2330			$\Delta S = 62.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation L B666J		Molecular Weight 180.2488	
Evaluation A		Wiswesser Line Notation L C666&T&J	
		Evaluation A	
C₁₄H₁₀ (c)	86CHI/ANN	C₁₄H₁₂ (c)	84VAN/BOU
Diphenylacetylene; Diphenylethyne		<i>trans</i> -Stilbene	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 235.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	$\Delta H = 20502 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 8 to 350 K.	
c/g	$\Delta H = 90374 \text{ J}\cdot\text{mol}^{-1}$	Entropy 298.15 K,	$S = 247.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 178.2330		Phase Changes	
Wiswesser Line Notation R1UU1R		c/liq 398 K,	$\Delta H = 27370 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 68.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 180.2488	
		Wiswesser Line Notation R1U1R -T	
		Evaluation B	
C₁₄H₁₀O₂ (c)	72BOO/HAU	C₁₄H₁₂ (c)	85BOU/DEL
Benzil; Diphenyl diketone		<i>trans</i> -Stilbene	
Phase Changes		Heat Capacity 320 K,	$C_p = 251.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 368.05 K,	$\Delta H = 22690 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 320 to 410 K.	
	$\Delta S = 61.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Molecular Weight 210.2318		c,l/liq 397.40 K,	$\Delta H = 27690 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation RVVR			$\Delta S = 69.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation C		Molecular Weight 180.2488	
		Wiswesser Line Notation R1U1R -T	
		Evaluation A	
C₁₄H₁₀O₂ (c)	83DWO	(C₁₄H₁₂Ge)_n (gls)	78LEB/RAB
Benzil; Diphenyl diketone		Polyvinylendiphenylgermyl- α,ω -dihydride	
Heat Capacity 298.15 K,	$C_p = 245.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 334.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 15 to 300 K.		Temperature range 7 to 330 K.	
Entropy 298.15 K,	$S = 292.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 323.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Highly elastic state.	
c,l/c,l 84.07 K,	$\Delta H = 44.1 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 252.8588	
	$\Delta S = 0.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation /*-GE-R&R&1U1*/	
Molecular Weight 210.2318		Evaluation A	
Wiswesser Line Notation RVVR		$T(\text{glass}) = 237 \text{ K}$.	
Evaluation A			
C₁₄H₁₁NO₃ (c)	77KAR/BAZ	(C₁₄H₁₂Si)_n (gls)	78LEB/RAB
N-Phenylphthalimide		Polyvinylendiphenylsilyl- α,ω -dihydride	
Heat Capacity 300 K,	$C_p = 245.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 331.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 60 to 400 K.		Temperature range 7 to 330 K.	
Entropy 300 K,	$S = 273.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 298.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 241.2458		Highly elastic state.	
Wiswesser Line Notation T56 BVNVJ CR		Molecular Weight 208.3343	
Evaluation B		Wiswesser Line Notation /*-SI-R&R&1U1*/	
		Evaluation A	
		$T(\text{glass}) = 264 \text{ K}$.	
C₁₄H₁₂ (c)	87CHI/HOS	C₁₄H₁₄ (liq)	87CHI/HOS2
9,10-Dihydrophenanthrene		Phenyl-o-tolylmethane	
Heat Capacity 298.15 K,	$C_p = 243.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 296.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 10 to 350 K.		Temperature range 10 to 500 K.	
Entropy 298.15 K,	$S = 229.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 335.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 180.2488		Phase Changes	
Wiswesser Line Notation L B666&T&J		c/liq 279.76 K,	$\Delta H = 19241 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 68.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat capacity and entropy data given for		Molecular Weight 182.2646	
liquid state at 298.15 K:		Wiswesser Line Notation 1R B1R	
	$C_p = 278.04,$	Evaluation A	
	$S^\circ = 270.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}.$		

C₁₄H₁₄ (liq) 2,2'-Dimethylbiphenyl Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c/liq 293.091 K, Molecular Weight 182.2646 Wiswesser Line Notation 1R BR B1 Evaluation A	87CHI/HOS $C_p = 298.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 332.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2279.9 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₁₄N₂O₃ (c) p-Azoxyanisole; 4,4'-Dimethoxyazoxybenzene Phase Changes c,III/c,I 250.7 K, c,II/c,I 335.6 K c,II/liq 377.5 K, Crystal II-nematic. c,I/liq 388.0 K, Crystal I-nematic. liq/liq 406.9 K, Nematic-isotropic. Molecular Weight 258.2762 Wiswesser Line Notation 1OR DNUNOR DO1 Evaluation A	82JAI $\Delta H = 104.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 23891 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 30430 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 78.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 757 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₁₄ (liq) 2-Ethylbiphenyl Heat Capacity 298.15 K, Temperature range 5 to 440 K. Entropy 298.15 K, Phase Changes c/liq 267.076 K, Molecular Weight 182.2646 Wiswesser Line Notation 2R BR Evaluation A	87CHI/HOS $C_p = 302.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 332.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2068.0 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₁₆CrI (c) Bis(toluen)chromium iodide Heat Capacity 298.15 K, Temperature range 60 to 298.15 K. Entropy 298.15 K, Molecular Weight 363.1809 Wiswesser Line Notation L6ØJ A1 Ø-CR-- ØL6ØJ A1 &I Evaluation B	72NIK/SAF $C_p = 333.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 328.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₁₄ (liq) 1,2,3,4-Tetrahydrophenanthrene Heat Capacity 298.15 K, Temperature range 5 to 430 K. Entropy 298.15 K, Phase Changes c,III/c,II 282.5 K, c,II/c,I 298.0 K, c,I/liq 302.560 K Molecular Weight 182.2646 Wiswesser Line Notation L B666T&&J Evaluation A	87CHI/HOS $C_p = 278.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 286.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 213 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1344.2 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₁₆N₂O₂ (liq) 1,3-Bis-(1-isocyanato-1-methylethyl)benzene Heat Capacity 333 K, Temperature range 333, 433 K. $C_p = 1.9 \text{ J}\cdot\text{g}^{-1}\cdot\text{C}^{-1}$. Molecular Weight 244.2926 Wiswesser Line Notation OCNX2&1&R CXNCO&2&1 Evaluation C 99% purity.	86ACH/HAS $C_p = 464 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₁₄ (c,II) 1,2,3,4-Tetrahydroanthracene Heat Capacity 298.15 K, Temperature range 10 to 500 K. Entropy 298.15 K, Phase Changes c,II/c,I 388.0 K, c,I/liq 373.245 K, Molecular Weight 182.2646 Wiswesser Line Notation L C666T&&J Evaluation A	87CHI/HOS2 $C_p = 247.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 227.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2921 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 19157 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 51.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₁₆N₂O₂ (c) 1,4-Bis-(1-isocyanato-1-methylethyl)benzene Heat Capacity 333 K, Temperature range 333, 433 K. $C_p = 1.7 \text{ J}\cdot\text{g}^{-1}\cdot\text{C}^{-1}$. Molecular Weight 244.2926 Wiswesser Line Notation OCNX2&1&R DXNCO&2&1 Evaluation C 99% purity.	86ACH/HAS $C_p = 415 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₁₄ (c,I) 1,2-Diphenylethane Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c,II/c,I 273.150 K, c,I/liq 324.348 K, Molecular Weight 182.2646 Wiswesser Line Notation R2R Evaluation A	88MES/FIN $C_p = 253.764 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 267.391 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2247.55 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 22730.52 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 70.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₁₈ (c) 1,2,3,4,5,6,7,8-Octahydroanthracene Heat Capacity 298.15 K, Temperature range 10 to 400 K. Entropy 298.15 K, Phase Changes c,II/c,I 331.348 K, c,I/liq 345.390 K, Molecular Weight 186.2962 Wiswesser Line Notation L 666 T&TJ Evaluation A	82GAM/CAL $C_p = 277.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 248.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2514.3 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 7.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18341.6 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 53.10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₁₄H₂₄ (c)	82NUZ	C₁₄H₂₆O₂ (liq)	85KAR/ABD2
Perhydrophenanthrene		Decyl methacrylate	
Heat Capacity 298 K,	$C_p = 289.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 193 to 403 K.		c/liq 250.7 K,	$\Delta H = 30548 \text{ J}\cdot\text{mol}^{-1}$
Phase Changes			$\Delta S = 121.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 313 K,	$\Delta H = 11155 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 226.3582	
	$\Delta S = 35.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 10OVY1&U1	
Molecular Weight 192.3436		Evaluation A	
Wiswesser Line Notation L B666TJ			
Evaluation B			
(cat) cis/anti/trans isomer			
C₁₄H₂₄ (c)	82NUZ	C₁₄H₂₇O₂Tl (c)	76MEI/SEY
Perhydrophenanthrene		Thallium tetradecanoate	
Heat Capacity 298 K,	$C_p = 345.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 193 to 403 K.		c,III/c,II 313 K,	$\Delta H = 11715 \text{ J}\cdot\text{mol}^{-1}$
Phase Changes			$\Delta S = 37.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 273 K,	$\Delta H = 10481 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 371 K,	$\Delta H = 3138 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 38.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 8.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 192.3436		c,I/liq 393 K,	$\Delta H = 5439 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation L B666TJ		Solid-mesophase.	$\Delta S = 13.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		liq/liq 460 K,	$\Delta H = 1632 \text{ J}\cdot\text{mol}^{-1}$
(cst) cis/syn/trans isomer			$\Delta S = 3.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Mesophase-isotropic.	
		Molecular Weight 431.7361	
		Wiswesser Line Notation OV13 .TL	
		Evaluation B	
C₁₄H₂₄ (c)	82NUZ	C₁₄H₂₇O₂Tl (c)	87NGE/WES
Perhydrophenanthrene		Thallium tetradecanoate	
Heat Capacity 298 K,	$C_p = 281.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 438.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 193 to 403 K.		Temperature range 10 to 460 K.	
Phase Changes		Entropy 298.15 K,	$S = 473.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 283 K,	$\Delta H = 11832 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 41.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,III/c,II 318.2 K,	$\Delta H = 15099 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 192.3436			$\Delta S = 47.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation L B666TJ		c,II/c,I 378.0 K,	$\Delta H = 2877 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 7.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(tat) trans/anti/trans isomer		c,I/liq 396.3 K,	$\Delta H = 6269 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 15.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Solid-mesomorphic liquid.	
		Molecular Weight 431.7361	
		Wiswesser Line Notation OV13 .TL	
		Evaluation A	
		Mesomorphic liquid-isotropic liquid phase	
		change data also given:	
		460.7 K,	$\Delta H = 1671 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 3.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₂₆O (liq)	87MIL/FEN	C₁₄H₃₀ (liq)	82ZAR
2-(1,2-Dimethylpropyl)-5,6-dimethylheptenal		<i>n</i> -Tetradecane	
Heat Capacity 323.15 K,	$C_p = 419.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 436.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 323.15 to 428.15 K.		Temperature range 298, 323, 363 K.	
Molecular Weight 210.3588		Molecular Weight 198.3910	
Wiswesser Line Notation 1YYYYVH&U2YY		Wiswesser Line Notation 14H	
Evaluation A		Evaluation B	
C₁₄H₂₆O (liq)	87MIL/FEN	C₁₄H₃₀ (liq)	84GRO/BEN
2-Pentylnonenal		<i>n</i> -Tetradecane	
Heat Capacity 323.15 K,	$C_p = 435.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 436.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 323.15 to 428.15 K.		One temperature.	
Molecular Weight 210.3588		Molecular Weight 198.3910	
Wiswesser Line Notation VHY5&U7		Wiswesser Line Notation 14H	
Evaluation A		Evaluation B	
C₁₄H₂₆O₂ (liq)	85KAR/ABD	C₁₄H₃₀ (liq)	84GRO/BEN
Decyl methacrylate		<i>n</i> -Tetradecane	
Heat Capacity 298.15 K,	$C_p = 452.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 436.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 250 to 350 K.		One temperature.	
Equation only.		Molecular Weight 198.3910	
$C_p (\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}) = 1098.7 + 3.0251 T$.		Wiswesser Line Notation 14H	
C_p data calculated from equation.		Evaluation B	
Phase Changes		C₁₄H₃₀ (liq)	84GRO/ING
c/liq 250.7 K		<i>n</i> -Tetradecane	
Molecular Weight 226.3582		Heat Capacity 298.15 K,	$C_p = 436.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 10OVY1&U1		One temperature.	
Evaluation B		Molecular Weight 198.3910	
		Wiswesser Line Notation 14H	
		Evaluation B	

C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation B	84ROU/GRO $C_p = 436.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₃₆N₂MgCl₄ (c) Bis(<i>n</i> -heptylammonium)tetrachloromanganate Heat Capacity 298.15 K, Temperature range 10 to 325 K. Entropy 298.15 K, Phase Changes c,III/c,II 247.95 K, c,II/c,I 313.8 K, Molecular Weight 398.5688 Wiswesser Line Notation 7ZH 2 .MN G4 Evaluation A	83WHI/DAV $C_p = 653.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 772.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 16930 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 68.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 10197 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 32.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation B	85LAI/ROU $C_p = 434.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₅H₁₀N₂O₂ (c) 4,4'-Diphenyl methane diisocyanate Heat Capacity 300 K, Temperature range 13 to 400 K. Data given graphically. Value estimated from graph. Entropy 298.15 K, Phase Changes c/liq 313.57 K, Molecular Weight 250.2562 Wiswesser Line Notation OCNR D1R DNCO Evaluation C(C _p); A(S,Phase changes)	77LEB/RAB4 $C_p = 313 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 332.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 27300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 87.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation A	85LAI/WIL $C_p = 434.20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(C₁₅H₁₀N₂O₂)_n (gls) Polyisocyanurate Heat Capacity 300 K, Temperature range 13 to 400 K. Data given graphically. Value estimated from graph. Entropy 298.15 K, Molecular Weight 250.2562 Wiswesser Line Notation /T4NVNVVTJ A* CR D1R D*/ Evaluation C(C _p), A(S)	77LEB/RAB4 $C_p = 300 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 294 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation B	86WIL/LAI $C_p = 433.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₅H₁₂ (c) 4-Methylphenanthrene Heat Capacity 298.15 K, Temperature range 10 to 500 K. Entropy 298.15 K, Phase Changes c,III/c,II 182.0 K, c,II/c,I 295.0 K, Molecular Weight 192.2598 Wiswesser Line Notation L B666J C1 Evaluation A	89CHI/HOS $C_p = 263.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 244.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 22.4 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 14039 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 43.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation B	88COS/HUU $C_p = 438.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₄H₃₆N₂CdCl₄ (c) Bis(<i>n</i> -heptylammonium)tetrachlorocadmiate Heat Capacity 298.15 K, Temperature range 10 to 325 K. Entropy 298.15 K, Phase Changes c,III/c,II 250.00 K, c,II/c,I 316.74 K, Molecular Weight 486.6738 Wiswesser Line Notation 7ZH 2 .CD G4 Evaluation A	83WHI/DAV $C_p = 633.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 779.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 17630 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 71.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5060 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 16.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀ (liq) <i>n</i> -Tetradecane Heat Capacity 298.15 K, One temperature. Molecular Weight 198.3910 Wiswesser Line Notation 14H Evaluation A	88PER/AIC $C_p = 438.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₅H₁₁N₃O₇ (c) Indene picric acid Phase Changes c/liq 366.7 K, Molecular Weight 345.2678 Wiswesser Line Notation L56 BHJ & WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 25100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 68.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₄H₃₀S (liq) 1-Tetradecanethiol; <i>n</i> -Tetradecyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 480.72 + 4.157 \times 10^{-2}T + 9.310 \times 10^{-5}T^2 \text{ (J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1})$ Molecular Weight 230.4510 Wiswesser Line Notation SH14 Evaluation B	82TUT/GAB $C_p = 501.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₁₅H₁₂ (c)	88CHI/HOS	C₁₅H₂₁CrO₆ (c)	86GRI/LAZ
4-Methylphenanthrene		Chromium acetylacetonate	
Heat Capacity 298.15 K,	$C_p = 263.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 10 to 500 K.		c/liq 481.9 K,	$\Delta H = 34000 \text{ J}\cdot\text{mol}^{-1}$
Value is a graphical extrapolation.			$\Delta S = 69.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 244.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 349.3233	
Phase Changes		Wiswesser Line Notation D6O-CR-O ADJ D1 F1 B-&	
c,III/c,II 182.0 K,	$\Delta H = 22.4 \text{ J}\cdot\text{mol}^{-1}$	BD6O-CR-O ADJ D1 F1 B-& BD6O-CR-O ADJ D1 F1	
	$\Delta S = 0.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Extrapolated value.			
c,II/c,I 295 K,	$\Delta H = 33.3 \text{ J}\cdot\text{mol}^{-1}$	C₁₅H₂₁FeO₆ (c)	87ZHI/KAR
	$\Delta S = 0.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Iron (III) acetylacetonate	
Extrapolated value.		Heat Capacity 298.15 K,	$C_p = 429.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 324.925 K,	$\Delta H = 14039 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 13 to 310 K.	
	$\Delta S = 43.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 526.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 192.2598		Molecular Weight 353.1743	
Wiswesser Line Notation L B666J C1		Wiswesser Line Notation D6O-FE-O ADJ D1 F1 B-&	
Evaluation A		BD6O-FE-O ADJ D1 F1 B-& BD6O-FE-O ADJ D1 F1	
		Evaluation A	
C₁₅H₁₅Co₃S₂ (c)	71/SOR/KOS	C₁₅H₂₆O₆ (liq)	86NIL/WAD
Tris-(cyclopentadienylcobalt)disulfide		Tributyrin; Glyceryl tributyrate	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 555.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 192.5 K,	$\Delta H = 5253.4 \text{ J}\cdot\text{mol}^{-1}$	One temperature.	
	$\Delta S = 28.894 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 302.3668	
Molecular Weight 436.2031		Wiswesser Line Notation 3VO1YOY3&1OV3	
Wiswesser Line Notation L5ØJ Ø-CO-- 3 & S 2		Evaluation A	
Evaluation A			
C₁₅H₁₅Y (c)	82SHE/KAM	C₁₅H₂₈O (liq)	88BAG/GUR
Tricyclopentadienyl yttrium		3,7,11-Trimethyl-1-dodecen-3-ol	
Heat Capacity 298.15 K,	$C_p = 289.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 313.15 K,	$C_p = 574.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 4.5 to 300 K.		Temperature range 270 to 340 K.	
Entropy 298.15 K,	$S = 301.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Unsmoothed experimental datum.	
Phase Changes		Molecular Weight 224.3856	
c,II/c,I 265-280 K		Wiswesser Line Notation 1Y3Y3XQ1UU1	
Order-disorder transition.		Evaluation B	
Molecular Weight 284.1894			
Wiswesser Line Notation L5ØJ Ø-Y- - ØL5ØJ &ØL5ØJ		C₁₅H₂₈O₈ (liq)	83SAN/CIO
Evaluation A		Diethylene glycol-trimethylolpropane-adipate polymer	
		Heat Capacity 298.15 K,	$C_p = 636 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₅H₁₆O₂ (c)	85NOV/TSV	Temperature Range 273.15 to 323.15 K	
4,4'-Dihydroxydiphenyl-2,2-propane		$C_p(\text{kJ kg}^{-1}\cdot\text{K}^{-1}) = 0.016882T - 3.143$	
Heat Capacity 298.15 K,	$C_p = 287.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 336.3814	
Temperature range 14 to 480 K.		Wiswesser Line Notation /*O2O2OV4VO2Y1Q&20*/	
Entropy 298.15 K,	$S = 287.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation D	
Phase Changes		Authors did not provide formula for repeating unit of polymer;	
c/liq 433 K,	$\Delta H = 30100 \text{ J}\cdot\text{mol}^{-1}$	assumed: glycol-adipate-trimethylolpropane, as repeating unit.	
	$\Delta S = 69.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 228.2902		C₁₅H₃₂ (liq)	81GRO/ING
Wiswesser Line Notation QR DX1&1&R DQ		<i>n</i> -Pentadecane	
Evaluation A		Heat Capacity 298.15 K,	$C_p = 467.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
C₁₅H₂₁AlO₆ (c)	86GRI/LAZ	Molecular Weight 212.4178	
Aluminum acetylacetonate		Wiswesser Line Notation 15H	
Phase Changes		Evaluation B	
c/liq 466.7 K,	$\Delta H = 33700 \text{ J}\cdot\text{mol}^{-1}$	C₁₅H₃₂ (liq)	88COS/HUU
	$\Delta S = 72.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	<i>n</i> -Pentadecane	
Molecular Weight 324.3088		Heat Capacity 298.15 K,	$C_p = 468.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation D6O-AL-O ADJ D1 F1 B-&		One temperature.	
BD6O-AL-O ADJ D1 F1 B-& BD6O-AL-O ADJ D1 F1		Molecular Weight 212.4178	
Evaluation A		Wiswesser Line Notation 15H	
		Evaluation B	

<p>$C_{15}H_{32}O_6$ (liq) 82ZAR Pentapropylene glycol Heat Capacity 298 K, $C_p = 685.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 298, 323, 363 K. Molecular Weight 308.4142 Wiswesser Line Notation QYOYOYOYOYQ Evaluation B</p>	<p>$C_{16}H_{12}N_7$ (c) 84ABR/BAI Tetramethylammonium hexacyanotrimethylenecyclopropanide Heat Capacity 295 K, $C_p = 442.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 233 to 393 K. Phase Changes c,II/c,I 363.7 K, $\Delta H = 1350 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>
<p>$(C_{16}H_8D_8)_n$ (gls) 82LEB/SMI Polystyrene-Polystyrene-d_8 copolymer Heat Capacity 298.15 K, $C_p = 279.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 7 to 330 K. Entropy 298.15 K, $S = 291.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 216.3656 Wiswesser Line Notation /*YR&1*/ & /*YR&1*/ &1/2-BCDEF/4/H-2 8 Evaluation A</p>	<p>Molecular Weight 302.3177 Wiswesser Line Notation L3YYYJ AU1CN&CN BU1CN&CN CU1CN&CN &K1&1&1 Evaluation B Treated as a second-order transition, the phase change gives a heat capacity discontinuity of $56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ at 363.7 K.</p>
<p>$(C_{16}H_{10}Ge)_n$ (gls) 77LEB/RAB Polydiphenyldiethynylgermanium Heat Capacity 298.15 K, $C_p = 279.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 50 to 325 K. Molecular Weight 274.8650 Wiswesser Line Notation /*1UU1-GE-1UU1&R&R*/ Evaluation B</p>	<p>$C_{16}H_{12}Si$ (c) 77MIL/LEB Diphenyldiethynylsilane Heat Capacity 298.15 K, $C_p = 381.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 10 to 326 K. Entropy 298.15 K, $S = 411.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c,II/c,I 209 K, $\Delta H = 22360 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 70.60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Crystal-glass transition. c,I/liq 316.72 K Molecular Weight 232.3563 Wiswesser Line Notation 1UU1-SI-1UU1&R&R Evaluation A</p>
<p>$C_{16}H_{11}N_3O_7$ (c) 79FAR/SHA Naphthalene picric acid Phase Changes c/liq 426.2 K, $\Delta H = 34700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 81.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 357.2788 Wiswesser Line Notation L66J &WNR BQ CNW ENW Evaluation B</p>	<p>$C_{16}H_{15}NO_3$ (c) 87BYK/KIP 3-Phenyl-5-phenoxyethyl-2-oxazolidinone Heat Capacity 298.15 K, $C_p = 310.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 0 to 330 K. Entropy 298.15 K, $S = 330.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 269.2994 Wiswesser Line Notation T5NVOTJ AR D1OR Evaluation A</p>
<p>$C_{16}H_{12}Ge$ (c) 75LEB/MIL Diethynyldiphenylgermane Heat Capacity 298.15 K, $C_p = 305.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 8.4 to 326 K. Deposited in VINITI, No 605-75, 10 March 1975. Entropy 298.15 K, $S = 356.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 319.94 K, $\Delta H = 20100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 276.8608 Wiswesser Line Notation 1UU1-GE-1UU1&R&R Evaluation A</p>	<p>$C_{16}H_{16}$ (c) 73ROD/WES 2,2-Paracyclophane; Cyclo-di-p-xylene Heat Capacity 298.15 K, $C_p = 252.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.290 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 208.3024 Wiswesser Line Notation L F6 C-12-6 A B F- F--&T&J Evaluation A</p>
<p>$C_{16}H_{12}Ge$ (c) 75LEB/MIL2 Diethynyldiphenylgermane Heat Capacity 300 K, $C_p = 307.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 8 to 326 K. Entropy 300 K, $S = 358.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 319.94 K, $\Delta H = 20100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 276.8608 Wiswesser Line Notation 1UU1-GE-1UU1&R&R Evaluation A</p>	<p>$C_{16}H_{18}$ (c) 83KRA/BEC 2,3-Dimethyl-2,3-diphenylbutane Heat Capacity 298 K, $C_p = 283.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.322 \text{ Cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 210.3182 Wiswesser Line Notation 1XR&XR Evaluation B</p>
<p>$C_{16}H_{20}CrI$ (c) 72NIK/SAF Bis(m-xylene)chromium iodide Heat Capacity 298.15 K, $C_p = 353.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 60 to 298.15 K. Entropy 298.15 K, $S = 370.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 391.2345 Wiswesser Line Notation L6ØJ A1 C1 Ø-CR-- ØL6ØJ A1 C1 &I Evaluation B</p>	<p>Molecular Weight 302.3177 Wiswesser Line Notation L6ØJ A1 C1 Ø-CR-- ØL6ØJ A1 C1 &I Evaluation B</p>

C₁₆H₂₀CrI (liq)	72NIK/SAF	C₁₆H₃₁O₂Tl (c)	76MEI/SEY
Bis(ethylbenzene)chromium iodide		Thallium hexadecanoate	
Heat Capacity 298.15 K,	$C_p = 393.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 60 to 298.15 K.		liq/liq 450 K,	$\Delta H = 1381 \text{ J}\cdot\text{mol}^{-1}$
Entropy 298.15 K,	$S = 406.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 3.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Mesophase-isotropic.	
c/liq 275.6 K		c,II/c,I 327 K,	$\Delta H = 10878 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 391.2345			$\Delta S = 33.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation L6ØJ A2 Ø-CR-- ØL6ØJ A2 &I		c,I/liq 390 K,	$\Delta H = 8786 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 22.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Data also given for glassy phase from 60 to 190 K.		Solid-mesophase.	
C₁₆H₂₂OSi₂ (liq)	83DZH/KUL	Molecular Weight 459.7897	
1,1,3,3-Tetramethyl-1,3-diphenyldisiloxane		Wiswesser Line Notation OV15 .TL	
Heat Capacity 298.15 K,	$C_p = 508.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Temperature range 5 to 300 K.			
Phase Changes		C₁₆H₃₄ (liq)	88COS/HUU
c/liq 250 K		2,2,4,4,6,8,8-Heptamethylnonane	
Molecular Weight 286.5202		Heat Capacity 298.15 K,	$C_p = 458.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 1-SI-1&R&O-SI-1&1&R		One temperature.	
Evaluation A		Molecular Weight 226.4446	
$T(\text{glass}) = 167 \text{ K}$.		Wiswesser Line Notation 1X1&1&1X1&1&1Y1&1X1&1&1	
		Evaluation B	
C₁₆H₂₂O₃Si₃ (liq)	87DZH/KUL2	C₁₆H₃₄ (liq)	88PER/AIC
1,1,3,3-Tetraethyl-5,5-diphenylcylotrisiloxane		2,2,4,4,6,8,8-Heptamethylnonane	
Heat Capacity 298.15 K,	$C_p = 629.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 458.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 5 to 315 K.		One temperature.	
Entropy 298.15 K,	$S = 711.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 226.4446	
Phase Changes		Wiswesser Line Notation 1X1&1&1X1&1&1Y1&1X1&1&1	
c/liq 279.082 K,	$\Delta H = 18374 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 66.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 346.6045		C₁₆H₃₄ (liq)	81GRO/ING
Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A1 A1 C1		<i>n</i> -Hexadecane; Cetane	
C1 ER ER		Heat Capacity 298.15 K,	$C_p = 499.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		One temperature.	
		Molecular Weight 226.4446	
C₁₆H₂₂O₄ (c)	70MAR/RAB	Wiswesser Line Notation 16H	
Dibutyl <i>o</i> -phthalate		Evaluation B	
Heat Capacity 300 K,	$C_p = 477.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Temperature range 60 to 360 K.		C₁₆H₃₄ (liq)	82ZAR
Entropy 300 K,	$S = 514.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	<i>n</i> -Hexadecane; Cetane	
Molecular Weight 278.3474		Heat Capacity 298 K,	$C_p = 498.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 4OVR BVO4		Temperature range 298, 323, 363 K.	
Evaluation B		Molecular Weight 226.4446	
$T(\text{glass}) = 173.5 \text{ }^\circ\text{C}$.		Wiswesser Line Notation 16H	
		Evaluation B	
C₁₆H₂₂O₄ (liq)	85RAB/NOV	C₁₆H₃₄ (liq)	85LAI/ROU
Dibutyl <i>o</i> -phthalate		<i>n</i> -Hexadecane; Cetane	
Heat Capacity 298.15 K,	$C_p = 476.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 496.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 14 to 300 K.		One temperature.	
Entropy 298.15 K,	$S = 561.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 226.4446	
Molecular Weight 278.3474		Wiswesser Line Notation 16H	
Wiswesser Line Notation 4OVR BVO4		Evaluation B	
Evaluation A			
Data given for glassy state from 10 to 170 K.		C₁₆H₃₄ (liq)	86TAR/AIC
$T(\text{glass}) = 173.5 \text{ K}$.		<i>n</i> -Hexadecane; Cetane	
		Heat Capacity 298.15 K,	$C_p = 499.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		One temperature.	
C₁₆H₂₄Si₈O₁₂ (c)	85PAN/KOZ	Molecular Weight 226.4446	
Octa(vinylsilasesquioxane)		Wiswesser Line Notation 16H	
Heat Capacity 300 K,	$C_p = 760 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Temperature range 160 to 300 K.			
C_p value estimated from graphical data.			
Phase Changes			
c,II/c,I 229.6 K,	$\Delta H = 9200 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 40.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 633.0424			
Wiswesser Line Notation XXXXXX			
Evaluation C(C_p), B(Phase changes)			

C₁₆H₃₄ (liq) <i>n</i> -Hexadecane; Cetane Heat Capacity 298.15 K, One temperature. Molecular Weight 226.4446 Wiswesser Line Notation 16H Evaluation B	86WIL/LAI $C_p = 495.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₆H₃₆N₄ (c) <i>cis</i> -(5,12)-7,7,14,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane Heat Capacity 298.15 K, Temperature range 0 to 330 K. Entropy 298.15 K, Molecular Weight 284.4872 Wiswesser Line Notation L14N DN HN KNTJ E1 G1 G1 L1 N1 N1 Evaluation A	87KUL/KIP $C_p = 444.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 443.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₄ (liq) <i>n</i> -Hexadecane; Cetane Heat Capacity 298.15 K, One temperature. Molecular Weight 226.4446 Wiswesser Line Notation 16H Evaluation B	88COS/HUU $C_p = 500.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₆H₄₀O₄Si₄ (liq) Octaethylcyclotetrasiloxane Heat Capacity 298.15 K, Temperature range 5 to 300 K. Entropy 298.15 K, Phase Changes c,III/c,II 134 K c,II/c,I 208.16 K, c,I/liq 213.35 K, Molecular Weight 408.8316 Wiswesser Line Notation T8-SI-O-SI-O-SI-O-SI- OTJ A2 A2 C2 C2 E2 E2 G2 G2 Evaluation A	87DZH/KUL $C_p = 746.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 909.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12219 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 13705 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₄ (liq) <i>n</i> -Hexadecane; Cetane Heat Capacity 298.15 K, One temperature. Molecular Weight 226.4446 Wiswesser Line Notation 16H Evaluation A	88PER/AIC $C_p = 500.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₇H₁₂ (c) 2,3-Benzofluorene Phase Changes c/liq 489.7 K, Molecular Weight 216.2818 Wiswesser Line Notation L D6 B656 LHJ Evaluation B	79FAR/SHA $\Delta H = 23400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 47.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₄O (c) <i>n</i> -Cetyl alcohol; 1-Hexadecanol Phase Changes c/liq 320 K, Molecular Weight 242.4440 Wiswesser Line Notation Q16 Evaluation C	1889EYK $\Delta H = 34727 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 108.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₇H₁₂ (c) 1,2-Benzofluorene Phase Changes c,II/c,I 399.9 K, c/liq 462.8 K, Molecular Weight 216.2818 Wiswesser Line Notation L D6 B566 CHJ Evaluation B	79FAR/SHA $\Delta H = 3800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 18400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 39.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₄S (liq) 1-Hexadecanethiol; <i>n</i> -Hexadecyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 553.16 + 4.153 \times 10^{-2}T + 9.560 \times 10^{-5}T^2$. Molecular Weight 258.5046 Wiswesser Line Notation SH16 Evaluation B	82TUT/GAB $C_p = 574.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₇H₁₄N₂ (c) 2,2-Bis(4-cyanatophenyl)propane Heat Capacity 300 K, Temperature range 13 to 400 K. Data given graphically. Value estimated from graph. Phase Changes c/liq 355.8 K, Molecular Weight 246.3110 Wiswesser Line Notation NCR DX1&1&R DCN Evaluation C(C_p); A(Phase changes)	77LEB/RAB4 $C_p = 360 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 26700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₅N (liq) N,N-Dimethyl-2-pentylonylamine Heat Capacity 323.15 K, Temperature range 323.15 to 423.15 K. Molecular Weight 241.4592 Wiswesser Line Notation 7Y5&1N1&1 Evaluation A	87MIL/FEN $C_p = 537.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₇H₁₄N₂ (c) 2,2-Bis-(4-cyanatophenyl)propane Heat Capacity 298.15 K, Temperature range 0 to 420 K. Entropy 298.15 K, Phase Changes c/liq 355.83 K, Molecular Weight 246.3110 Wiswesser Line Notation NCR DX1&1&R DCN Evaluation A	75LEB/ARO $C_p = 355.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 391.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 26694 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 74.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₆H₃₆ClN (c) Di- <i>n</i> -octylammonium chloride Heat Capacity 298.24 K, Temperature range 25 to 350 K. Unsmoothed experimental datum. Phase Changes c,II/c,I 297.70 K, Molecular Weight 277.9201 Wiswesser Line Notation 8M8 &GH Evaluation A	88VAN/WHI $C_p = 550.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 33610 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

$(C_{17}H_{14}N_2O_2)_n$ (amorph) Poly[2,2-bis-(4-phenoxypropane)]2,4,6-triazine; Polycyanate Heat Capacity 298.15 K, Temperature range 0 to 420 K. Entropy 298.15 K, Molecular Weight 278.3098 Wiswesser Line Notation T6N CN ENJ BOR& DX1&1&RO* DOR& DX1&1&RO* EOR& DX1&1&RO*/ 1/3 Evaluation A	75LEB/ARO	$C_{18}H_{14}$ (c) <i>p</i> -Terphenyl Heat Capacity 298.15 K, Temperature range 4 to 580 K. $C_p = 35.12 + 0.58825T + 0.0010062T^2 - 8.042 \times 10^{-7}T^3$ from 80 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 193.55 K Lambda transition. c/liq 487.0 K, Molecular Weight 230.3086 Wiswesser Line Notation RR DR Evaluation A	83CHA $C_p = 278.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 285.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 35300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 72.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{17}H_{20}Cl_2N_2S$ (c) Chlorpromazine hydrochloride; 2-Chloro-9-(3-dimethylaminopropylidene)-10-thioxanthene hydrochloride Phase Changes c/liq 294.85 K, Molecular Weight 355.3305 Wiswesser Line Notation T C666 BN ISJ B3N1&1 FG &GH Evaluation C (Pre-melting began at 461.7 K).	83CHA/MAS	$C_{18}H_{14}$ (c) <i>p</i> -Terphenyl Heat Capacity 300 K, Temperature range 180 to 500 K. Data given graphically. Value estimated from graph. Phase Changes c,II/c,I 400 to 493.1 K c/liq 493.1 K, Molecular Weight 230.3086 Wiswesser Line Notation RR DR Evaluation D(C_p), B(Phase changes)	82WAS/RAD $C_p = 260 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 41600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 84.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{17}H_{36}$ (liq) <i>n</i> -Heptadecane Phase Changes c,II/c,I 283.65 K c,I/liq 294.85 K Molecular Weight 240.4714 Wiswesser Line Notation 17H Evaluation B	55SCH/BUS	$C_{18}H_{14}$ (c) <i>p</i> -Terphenyl Phase Changes c/liq 486.3 K, Molecular Weight 230.3086 Wiswesser Line Notation RR DR Evaluation A	79SMI $\Delta H = 35500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 73.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{18}H_8N_4$ (c) Naphthalene-tetracyanoethylene Heat Capacity Temperature range 5 to 300 K. Data graphically only. Phase Changes c,III/c,II 160 K, Bifurcated peak. Transition region 150 to 172.5 K. c,II/c,I 222 K, Extended transition. Transition region 172.5 to 240K. Molecular Weight 280.2880 Wiswesser Line Notation L66J &NC1U1CN Evaluation A	79BOE/WES	$C_{18}H_{15}ClSi$ (c) Triphenylchlorosilane Heat Capacity 298.15 K, Temperature range 12.39 to 386.93 K. Entropy 298.15 K, Phase Changes c/liq 370.6 K, Molecular Weight 294.8550 Wiswesser Line Notation G-SI-R&R&R Evaluation A	68KOS/MOS $C_p = 337.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 370.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 26878 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 72.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
$C_{18}H_{11}N_3O_7$ (c) Acenaphthene picric acid Phase Changes c/liq 436.3 K, Molecular Weight 381.3008 Wiswesser Line Notation L566 1A LT&&J &WNR BQ CNW ENW Evaluation B	79FAR/SHA	$C_{18}H_{15}OP$ (c) Triphenylphosphine oxide Heat Capacity 298.15 K, One temperature. Molecular Weight 278.2897 Wiswesser Line Notation OPR&R&R Evaluation B	77HAR/HEA $C_p = 317 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ C_p given as $1.14 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
		$C_{18}H_{15}OP$ (c) Triphenylphosphine oxide Heat Capacity 298 K, One temperature. Phase Changes c/liq 429 K, Molecular Weight 278.2897 Wiswesser Line Notation OPR&R&R Evaluation C	78JOR/AIR $C_p = 470 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 23800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

<p>C₁₈H₁₅OP (c) Triphenylphosphine oxide Phase Changes c/liq 431.9 K, Molecular Weight 278.2879 Wiswesser Line Notation OPR&R&R Evaluation A</p>	<p>88KIR/DOM $\Delta H = 24220 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>	<p>C₁₈H₂₁NO (liq) N-(4-Methoxybenzylidene)-<i>p</i>-(<i>n</i>-butyl)aniline Heat Capacity 300 K, Temperature range 100 to 340 K. C_p value estimated from graphical data. Phase Changes c/liq 295.3 K, $\Delta H = 18033 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Data also given for metastable modification: 294.0 K, $\Delta H = 14757 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.</p>
<p>C₁₈H₁₅O₄P (c) Triphenyl phosphate Heat Capacity 300 K, Temperature range 12 to 340 K. Entropy 300 K, Phase Changes c/liq 322.55 K, Molecular Weight 326.2879 Wiswesser Line Notation RO 3 &PO Evaluation A</p>	<p>86RAB/PET $C_p = 356.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 397.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 29610 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 91.80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>	<p>Molecular Weight 267.3700 Wiswesser Line Notation 4R DNU1R DO1 Evaluation A(Phase changes), D(C_p) Phase change data for the metastable modification clearing point also given: $T = 317.0 \text{ K};$ $\Delta S = 1.962 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.</p>
<p>C₁₈H₁₅P (c) Triphenylphosphine Phase Changes c/liq 354.4 K, Molecular Weight 262.2903 Wiswesser Line Notation RPR&R Evaluation A</p>	<p>88KIR/DOM $\Delta H = 19690 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>	<p>C₁₈H₂₁NO (liq) N-(4-Methoxybenzylidene)-<i>p</i>-<i>n</i>-butylaniline Heat Capacity 298.15 K, Temperature range 293 to 333 K. Data given graphically. C_p value is a graphical estimate. Phase Changes liq/liq 320.137 K Nematic-isotropic liquid transition. Molecular Weight 267.3700 Wiswesser Line Notation 4R DNU1R DO1 Evaluation C</p>
<p>C₁₈H₁₆ (liq) 4β,4α,9β,5,9β,9α,10-Hexahydrocyclobuta[1,2- a:3,4-a']diindene; anti,<i>trans</i>-Truxane Heat Capacity 298.15 K, One temperature. Molecular Weight 232.3244 Wiswesser Line Notation L E6 C5 B456&TTT&J Evaluation B</p>	<p>78GOO/SCO $C_p = 252.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $C_p = 0.260 \text{ cal}\cdot\text{g}^{-1}$</p>	<p>C₁₈H₂₂N₂O (liq) 4-Ethoxy-4'-butylazobenzene Heat Capacity 325.49 K, Temperature range 325 to 363 K. Unsmoothed experimental datum. Phase Changes liq/liq 355.8 K, $\Delta H = 655 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>
<p>C₁₈H₁₆ (liq) 4β,4α,9,9α,9β,10-Hexahydrocyclobuta[1,2- a:4,3-a']diindene; syn,<i>trans</i>-Truxane Heat Capacity 298.15 K, One temperature. Molecular Weight 232.3244 Wiswesser Line Notation L D6 C5 B456&TTT&J Evaluation B</p>	<p>78GOO/SCO $C_p = 275.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $C_p = 0.283 \text{ cal}\cdot\text{g}^{-1}$</p>	<p>Molecular Weight 282.3846 Wiswesser Line Notation 4R DNUNR DO2 Evaluation B</p>
<p>C₁₈H₁₈ (liq) 2,2'-Biindanyl Heat Capacity 298.15 K, One temperature. Molecular Weight 234.3402 Wiswesser Line Notation L56T&J C- CL56T&J Evaluation B</p>	<p>78GOO/SCO $C_p = 332.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $C_p = 0.339 \text{ cal}\cdot\text{g}^{-1}$</p>	<p>C₁₈H₂₄CrI (c) Bis(mesitylene)chromium iodide Heat Capacity 298.15 K, Temperature range 60 to 298.15 K. Entropy 298.15 K, Phase Changes c,II/c,I 260 K, $\Delta H = 105 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>
<p>C₁₈H₁₈CINS (c) Chlorprothixene; 2-Chloro-9-(3-dimethylamino- propylidene)-10-thioxanthene Phase Changes c/liq 370.3 K, Molecular Weight 315.8663 Wiswesser Line Notation T C666 BS IYT EG IU3N1&1 Evaluation C</p>	<p>83CHA/MAS $\Delta H = 27820 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>	<p>Molecular Weight 419.2881 Wiswesser Line Notation L60J A1 C1 D1 Ø-CR-- ØL60J A1 C1 D1 &I Evaluation B</p> <p>C₁₈H₂₄CrI (c) Bis(diisopropylbenzene)chromium iodide Heat Capacity 298.15 K, Temperature range 60 to 298.15 K. Entropy 298.15 K, Molecular Weight 419.2881 Wiswesser Line Notation L60J AY DY Ø-CR-- ØL60J AY DY &I Evaluation B</p>

C₁₈H₂₆Si₄O₄ (c)	81MEK/KAR	C₁₈H₃₀O₄ (c)	78KAR/SAP
1,1,3,3,5,5-Hexamethyl-7,7-diphenyltetrasiloxane		<i>p</i> -Diacetylbenzene diethyl ketal	
Heat Capacity 298.15 K,	$C_p = 633.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 460 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 13 to 390 K.		Temperature range 5 to 326.1 K.	
Data given graphically.		Data given graphically.	
Entropy 298.15 K,	$S = 758.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Value estimated from graph.	
Phase Changes		Entropy 298.15 K,	$S = 493.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	304.96 K,	Phase Changes	
	$\Delta H = 42731 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I	168.2 K,
	$\Delta S = 140.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 1307 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 420.7588		c,I/liq	326.21 K,
Wiswesser Line Notation T8-SI-O-SI-O-SI-O-SI-			$\Delta H = 8.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
OTJ A1 A1 C1 C1 E1 E1 GR GR			$\Delta H = 23500 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 72.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 310.4326	
		Wiswesser Line Notation 2OXO2&1&R DX1&O2&O2	
		Evaluation C(C_p), A(S,Phase changes)	
		$T(\text{glass}) = 208.0 \text{ K}$.	
C₁₈H₃₀ (c)	86CHI/ANN	C₁₈H₃₀O₄ (c)	78KAR/RAB
Hexaethylbenzene		<i>p</i> -Diacetylbenzene diethyl ketal	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 462.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/g	$\Delta H = 94977 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 5 to 340 K.	
Molecular Weight 246.4350		Entropy 298.15 K,	$S = 493.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 2R B2 C2 D2 E2 F2		Phase Changes	
Evaluation A		c,II/c,I	168.24 K,
			$\Delta H = 1307 \text{ J}\cdot\text{mol}^{-1}$
		c,I/liq	326.61 K,
			$\Delta S = 8.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
			$\Delta H = 23500 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 71.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 310.4326	
		Wiswesser Line Notation 2OXO2&1&R DX1&O2&O2	
		Evaluation A	
		Glass transition at $T(\text{glass}) = 208 \text{ K}$.	
C₁₈H₃₀BaCa₂O₁₂ (c)	55MOM/SEK	C₁₈H₃₂O (liq)	88BAG/GUR
Barium dicalcium propionate		6,10,14-Trimethyl-3,5-pentadecadien-2-one	
Phase Changes		Heat Capacity 293.95 K,	$C_p = 555.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	268.4 K,	Temperature range 270 to 340 K.	
	$\Delta H = 7284 \text{ J}\cdot\text{mol}^{-1}$	Unsmoothed experimental datum.	
	$\Delta S = 27.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 264.4502	
Molecular Weight 655.9178		Wiswesser Line Notation 1Y3Y3YU2U1V1	
Wiswesser Line Notation OV1 6 .BE 4O		Evaluation B	
Evaluation B			
C₁₈H₃₀Ca₂O₁₂Pb (c)	65NAK/SUG	C₁₈H₃₄O₃ (liq)	84URY/MOC
Lead dicalcium propionate		Castor oil; Natural ricinoleic acid	
Heat Capacity 298.15 K,	$C_p = 740.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 646 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 15 to 300 K.		Temperature range 80 to 320 K.	
Entropy 298.15 K,	$S = 983.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 300 K,	$S = 620 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c,II/c,I	191.5 K,	c,II/c,I	205 K
	$\Delta H = 4853 \text{ J}\cdot\text{mol}^{-1}$	Glass transition;	
	$\Delta S = 24.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	$\Delta C_p = 0.55 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ for glass to supercooled liquid transition.	
Molecular Weight 725.7878		c/liq	264.87 K,
Wiswesser Line Notation OV1 6 &-CA- 2 &-PB-			$\Delta H = 17016 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 298.4648	
		Wiswesser Line Notation QV8U2YQ6	
		Evaluation B	
		General difference in enthalpy of glassy and crystalline	
		phases at $T = 0 \text{ K}$ is $31.7 \text{ J}\cdot\text{g}^{-1}$ ($9397 \text{ J}\cdot\text{mol}^{-1}$).	
		Entropy of the glassy phase at	
		$T = 0 \text{ K}$ is $0.097 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$ ($28.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$).	
		Castor oil is about 88% ricinoleic acid.	
C₁₈H₃₀O₄ (c)	77KAR/SAP		
<i>p</i> -Diacetylbenzene diethyl ketal			
Phase Changes			
c,II/c,I	168.2 K,		
	$\Delta H = 1305 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
c,I/liq	326.21 K,		
	$\Delta H = 23502 \text{ J}\cdot\text{mol}^{-1}$		
$\Delta S_m = 23502/326.21 = 72.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.			
Molecular Weight 310.4326			
Wiswesser Line Notation 2OXO2&1&R DX1&O2&O2			
Evaluation A			
$T(\text{glass}) = 208.0 \text{ K}$, see also 78KAR/SAP.			

C₁₈H₃₅O₂Tl (c) Thallium octadecanoate Phase Changes liq/liq 444 K, Mesophase-isotropic. c,III/c,II 324 K, c,II/c,I 380 K, c,I/liq 385 K, Solid-mesophase. Molecular Weight 487.8433 Wiswesser Line Notation OV17 .TL Evaluation B	76MEI/SEY $\Delta H = 1381 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9623 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12134 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 12.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5439 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 14.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₈H₃₈ (liq) <i>n</i> -Octadecane Heat Capacity 325 K, Temperature range 300 to 500 K. $C_v = 2.20 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 254.4982 Wiswesser Line Notation 18H Evaluation B	81HOE $C_p = 568 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₈H₃₆ (c) Cyclooctadecane Phase Changes c,II/c,I 298 K, c/liq 346 K, Molecular Weight 252.4824 Wiswesser Line Notation L-18-TJ Evaluation B	69BOR/DAL $\Delta H = 29288 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 97.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9874 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 28.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₈H₃₈O₇ (liq) Hexapropylene glycol Heat Capacity 298 K, Temperature range 298, 323, 363 K. Molecular Weight 366.4940 Wiswesser Line Notation QYOYOYOYOYOYQ Evaluation B	82ZAR $C_p = 807.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₈H₃₆O (liq) 6,10,14-Trimethyl-2-pentadecanone; Phytone Heat Capacity 293.85 K, Temperature range 270 to 340 K. Unsmoothed experimental datum. Molecular Weight 268.4818 Wiswesser Line Notation 1Y3Y3Y3V1 Evaluation B	88BAG/GUR $C_p = 593.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₈H₃₈S (liq) 1-Octadecanethiol; <i>n</i> -Octadecyl mercaptan Heat Capacity 300 K, Temperature range 273 to 373 K. $C_p = 626.52 + 4.423 \times 10^{-2}T + 9.800 \times 10^{-5}T^2$. Molecular Weight 286.5582 Wiswesser Line Notation SH18 Evaluation B	82TUT/GAB $C_p = 648.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₈H₃₆O₂ (c) Octadecanoic acid; Stearic acid Phase Changes c/liq 326.1 K, Molecular Weight 284.4812 Wiswesser Line Notation QV17 Evaluation C	1889EYK $\Delta H = 64643 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 198 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₉H₁₃N₃O₇ (c) Fluorene picric acid Phase Changes c/liq 350.3 K, Molecular Weight 395.3276 Wiswesser Line Notation L B656 HHJ & WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 26800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 76.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₈H₃₆O₂ (c) Octadecanoic acid; Stearic acid Phase Changes c/liq 345, 346 K, First peak due to pre-melting or dissociation. Molecular Weight 284.4812 Wiswesser Line Notation QV17 Evaluation B	83BEC/ROU $\Delta H = 62600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 181 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₉H₁₄N₂ (c) 1,2-Diphenylbenzimidazole Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Molecular Weight 270.3330 Wiswesser Line Notation T56 BN DNJ CR DR Evaluation A	74KAR/RAB $C_p = 318.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 306.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₈H₃₈ (c) <i>n</i> -Octadecane Phase Changes c,I/liq 301.35 K, Molecular Weight 254.4982 Wiswesser Line Notation 18H Evaluation B	55SCH/BUS $\Delta H = 61379 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 203.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₁₉H₁₆N₂O (c) N-Benzoyl- <i>o</i> -aminodiphenylamine Heat Capacity 298.15 K, Temperature range 10 to 450 K. Entropy 298.15 K, Molecular Weight 288.3482 Wiswesser Line Notation RVMR BMR Evaluation A	74KAR/RAB $C_p = 356.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 340.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₁₉H₂₀N₂O₃ (c)	83FAN/POE	C₁₉H₂₃NO (c)	73SOR/NAK
4-Propionyl-4'- <i>n</i> -butanoyloxyazobenzene		<i>N</i> - <i>p</i> -Ethoxybenzylidene- <i>p</i> '-butylaniline	
Phase Changes		Heat Capacity 300 K,	$C_p = 425 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	366 K,	Temperature range 14 to 375 K.	
		Data estimated from graph.	
Mesophase observed between 366 and 393 K.	$\Delta H = 15021 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
Solid-smectic <i>H</i> or <i>G</i> .	$\Delta S = 41.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	liq/liq	349.08 K,
Molecular Weight 324.3786			$\Delta H = 1553 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation 3VOR DNUNR DV2			$\Delta S = 4.524 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Nematic-isotropic.	
Smectic <i>H</i> or <i>G</i> -smectic <i>A</i> ; smectic <i>A</i> -nematic;		c/liq	305.62 K,
nematic-isotropic liquid phase change data			$\Delta H = 27090 \text{ J}\cdot\text{mol}^{-1}$
also given: 392.65 K,	$\Delta H = 10920 \text{ J}\cdot\text{mol}^{-1}$;		$\Delta S = 88.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
409.65 K,	$\Delta H = 4100 \text{ J}\cdot\text{mol}^{-1}$;	Molecular Weight 281.3968	
428.65 K,	$\Delta H = 753 \text{ J}\cdot\text{mol}^{-1}$.	Wiswesser Line Notation 4R DNU1R DO2	
		Evaluation B	
C₁₉H₂₂ClNO (c)	82TSU/SOR2	C₁₉H₂₃NO (c)	74SOR/NAK
<i>p</i> - <i>n</i> -Hexyloxybenzylideneamino- <i>p</i> '-chlorobenzene		<i>N</i> - <i>p</i> -Ethoxybenzylidene- <i>p</i> '-butylaniline	
Heat Capacity 298.15 K,	$C_p = 434.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 429.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 15 to 385 K.		Temperature Range 14 to 375 K,	
Entropy 298.15 K,	$S = 447.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entrop 298.15 K,	$\Delta S = 421.788 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Phase Changes	
c/liq	327.7 K,	c/nematic liq	305.62 K,
	$\Delta H = 10880 \text{ J}\cdot\text{mol}^{-1}$		$\Delta H = 27090 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 33.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 88.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Crystal to intermediate phase <i>S</i> ₃ .		Crystal-nematic	
Molecular Weight 315.8419		liq/liq	349.08 K,
Wiswesser Line Notation GR DNU1R DO6			$\Delta H = 1553 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 4.524 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
<i>S</i> ₃ -smectic <i>B</i> ; smectic <i>B</i> -smectic <i>A</i> ; smectic		Nematic-isotropic	
<i>A</i> -isotropic liquid phase change data also given:		Molecular Weight 281.3968	
333.90 K,	$\Delta H = 12350 \text{ J}\cdot\text{mol}^{-1}$,	Wiswesser Line Notation 4R DNU1R DO2	
	$\Delta S = 37.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$;	Evaluation A	
362.98 K,	$\Delta H = 3390 \text{ J}\cdot\text{mol}^{-1}$,		
	$\Delta S = 9.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$;	C₁₉H₂₃NO (c)	82TSU/SOR
370.38 K,	$\Delta H = 5790 \text{ J}\cdot\text{mol}^{-1}$,	<i>p</i> - <i>n</i> -Hexyloxybenzylideneaniline	
	$\Delta S = 15.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	Heat Capacity 298.15 K,	$C_p = 404.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 16 to 385 K.	
		Entropy 298.15 K,	$S = 424.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₁₉H₂₂FNO (c)	82TSU/SOR3	Phase Changes	
<i>p</i> - <i>n</i> -Hexyloxybenzylideneamino- <i>p</i> '-fluorobenzene		c,II/c,I	73.41 K,
Heat Capacity 298.15 K,	$C_p = 442.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 192 \text{ J}\cdot\text{mol}^{-1}$
Temperature range 15 to 385 K.		c,I/liq	321.63 K,
Entropy 298.15 K,	$S = 438.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta H = 2.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes			$\Delta H = 309100 \text{ J}\cdot\text{mol}^{-1}$
c/liq	328.07 K,		$\Delta S = 96.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta H = 23220 \text{ J}\cdot\text{mol}^{-1}$	Solid-isotropic liquid.	
	$\Delta S = 70.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 281.3968	
Crystal to smectic <i>B</i> .		Wiswesser Line Notation 6OR D1UNR	
Molecular Weight 299.3873		Evaluation A	
Wiswesser Line Notation FR DNU1R DO6			
Evaluation A		C₁₉H₄₀ (c)	55SCH/BUS
Smectic <i>B</i> -smectic <i>A</i> ; smectic <i>A</i> -nematic;		<i>n</i> -Nonadecane	
nematic-isotropic liquid phase change data also given:		Phase Changes	
330.33 K,	$\Delta H = 3050 \text{ J}\cdot\text{mol}^{-1}$,	c,II/c,I	295.95 K,
	$\Delta S = 9.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$;		$\Delta H = 13807 \text{ J}\cdot\text{mol}^{-1}$
334.88 K,	$\Delta H = 3410 \text{ J}\cdot\text{mol}^{-1}$,		$\Delta S = 46.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 10.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$;	c,I/liq	305.15 K,
336.33 K,	$\Delta H = 1170 \text{ J}\cdot\text{mol}^{-1}$,		$\Delta H = 45815 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 3.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		$\Delta S = 150.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 268.5250	
		Wiswesser Line Notation 19H	
		Evaluation B	
		C₁₉H₄₀ (c)	79CLA/LET
		<i>n</i> -Nonadecane	
		Phase Changes	
		c,II/c,I	295.95 K,
			$\Delta H = 13665 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 46.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq	303.95 K,
			$\Delta H = 47395 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 155.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 268.5250	
		Wiswesser Line Notation 19H	
		Evaluation B	

<p>C₂₀H₁₀N₄ (c) 79BOE/WES Naphthalene-tetracyanobenzene Heat Capacity Temperature range 30 to 80 K. Data given graphically only. Phase Changes c,II/c,I 70 K, $\Delta S = 2.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Transition extends over 50 K region, abruptly ending at 70 K. Molecular Weight 306.3258 Wiswesser Line Notation L66J &NCR BCN DCN ECN Evaluation A</p>	<p>C₂₀H₁₄O₄ (c) 84GRA/AVR Phenolphthalein Heat Capacity Temperature range 300 to 550 K. Data given graphically. Phase Changes c,II/c,I 411 K, $\Delta H = 22594 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 55.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Amorphous/crystal. c/liq 534 K, $\Delta H = 51045 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 95.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 318.3282 Wiswesser Line Notation T56 BVOT&J DR DQ DR DQ Evaluation B</p>
<p>C₂₀H₁₁Cl₄NO₂ (c) 87ECO/BER AnthraceneTCNB; Anthracene-1,2,4,5-tetrachloro-3-nitrobenzene Heat Capacity Temperature range 140 to 240 K. Data given graphically. Phase Changes c,III/c,II 208.5 K c,II/c,I 211.5 K, $\Delta H = 151 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Total enthalpy and entropy between 180 and 215 K. Molecular Weight 439.1244 Wiswesser Line Notation WNR BG CG EG FG & L C666J Evaluation B</p>	<p>C₂₀H₁₆Fe₂I₃ (c) 87SOR/NIS Biferrocenium triiodide Heat Capacity 300 K, $C_p = 463.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 14 to 360 K. Interpolated data. Phase Changes c,II/c,I 358.675 K, $\Delta H = 538 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 748.7539 Wiswesser Line Notation L50J Ø-FE-- ØL50J A- AL50JØ-FE-- ØL50J &I3 Evaluation A</p>
<p>C₂₀H₁₃N₃O₇ (c) 79FAR/SHA Anthracene picric acid Phase Changes c,II/c,I 364.0 K, $\Delta H = 10500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 28.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/liq 417.6 K, $\Delta H = 24300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 58.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 407.3386 Wiswesser Line Notation L C666J &WNR BQ CNW ENW Evaluation B</p>	<p>C₂₀H₁₈Sn (c) 85CAR/LAY Triphenyl vinyl tin Heat Capacity 298.15 K, $C_p = 486.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $1.29 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 377.0522 Wiswesser Line Notation 1U1-SN-R&R&R Evaluation B</p>
<p>C₂₀H₁₄ (c) 73ROD/WES Triptycene; 9,10-o-Benzo-9,10-dihydroanthracene Heat Capacity 298.15 K, $C_p = 283.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.266 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 254.3306 Wiswesser Line Notation L 6 H66 O66/GT 2AF T GH NHJ Evaluation A</p>	<p>C₂₀H₂₀ (liq) 78GOO/SCO 5,6,6a,6b,11,12,12a,12b-Octahydrodibenzo- [a,g]biphenylene Heat Capacity 298.15 K, $C_p = 323.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.297 \text{ cal}\cdot\text{g}^{-1}$. Molecular Weight 260.3780 Wiswesser Line Notation L F6 C6 B466 &TTT&J Evaluation B</p>
<p>C₂₀H₁₄ (c) 79FAR/SHA β,β'-Binaphthyl Phase Changes c/liq 461.2 K, $\Delta H = 38900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 84.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 254.3306 Wiswesser Line Notation L66J A- AL66J Evaluation B</p>	<p>C₂₀H₂₀ (liq) 78GOO/SCO 5,6,6a,6b,7,8,12b,12c-Octahydrodibenzo- [a,i]biphenylene Heat Capacity 298.15 K, $C_p = 333.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.306 \text{ cal}\cdot\text{g}^{-1}$. Molecular Weight 260.3780 Wiswesser Line Notation L D6 C6 B466 &TTT&J Evaluation B</p>
<p>C₂₀H₁₄O₄ (c) 84OZC/ASR 4,4'-Diethanoyloxydiphenyldiacetylene Phase Changes c,III/c,II 449 K, $\Delta H = 7110 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 488 K, $\Delta H = 40200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 62.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 318.3282 Wiswesser Line Notation 1VOR DIU2UUIR DOV1 Evaluation A First heating, gradual decomposition observed on cycling.</p>	<p>C₂₀H₂₂ (liq) 78GOO/SCO 2,2'-Bitetralin Heat Capacity 298.15 K, $C_p = 379.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ One temperature. C_p given as $0.346 \text{ cal}\cdot\text{g}^{-1}$. Molecular Weight 262.3938 Wiswesser Line Notation L66T&J C- CL66TT&J Evaluation B</p>

C₂₀H₂₂N₂O (c)	79TSU/SOR	C₂₀H₃₃Cl₂FeN₆O (c)	85KAJ/SOR
<i>p-n</i> -Hexyloxybenzylideneamino- <i>p'</i> -benzotrile		Tris(2-picolyamine)iron chloride ethanolate	
Heat Capacity 298.15 K,	$C_p = 432.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 590 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 15 to 385 K.		Temperature range 13 to 315 K.	
Entropy 298.15 K,	$S = 450.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Data graphically only.	
Phase Changes		Value estimated from graph.	
c,II/c,I 306.98 K,	$\Delta H = 5110 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,III/c,II 114.04 K	
c,I/liq 334.05 K,	$\Delta H = 23770 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 122.21 K,	$\Delta H = 6140 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 71.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 50.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid nematic.		Total transition enthalpy and entropy.	
Molecular Weight 306.4066		Molecular Weight 500.2734	
Wiswesser Line Notation NCR DNU1R DO6		Wiswesser Line Notation T6NJ B1ZH 3 .FE G2 &G2	
Evaluation A		Evaluation $C_p(C)$, transitions(A)	
Nematic-isotropic liquid phase data also given:			
375.10 K,	$\Delta H = 1750 \text{ J}\cdot\text{mol}^{-1}$,		
	$\Delta S = 3.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
(Note: $1750/375.10 = 4.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$).			
C₂₀H₂₄N₂O₃ (liq)	85SHA/ZHU	C₂₀H₄₀O (liq)	88BAG/GUR
4-Methoxy-4'-heptanoylazobenzene		3,7,11,15-Tetramethyl-1-hexadecen-3-ol; Isophytol	
Heat Capacity 351.84 K,	$C_p = 685.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 293.75 K,	$C_p = 729.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 351 to 374 K.		Temperature range 270 to 340 K.	
Unsmoothed experimental datum.		Unsmoothed experimental datum.	
Phase Changes		Molecular Weight 296.5354	
liq/liq 371.6 K,	$\Delta H = 573 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 1Y3Y3Y3XQ1U1	
	$\Delta S = 1.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 340.4212		C₂₀H₄₀O (liq)	88BAG/GUR
Wiswesser Line Notation 6VOR DNUNR DO1		3,7,11,15-Tetramethyl-1-hexadecyn-3-ol	
Evaluation B		Heat Capacity 293.85 K,	$C_p = 712.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Temperature range 270 to 340 K.	
		Unsmoothed experimental datum.	
		Molecular Weight 296.5354	
		Wiswesser Line Notation 1Y3Y3Y3XQ1UU1	
		Evaluation B	
C₂₀H₂₅NO (c)	82TSU/SOR4	C₂₀H₄₁NO (liq)	81ARU/DAU
<i>p-n</i> -Hexyloxybenzylidene- <i>p'</i> -toluidine		4-Octyl-4'-heptyl- α -cyanostilbene	
Heat Capacity 298.15 K,	$C_p = 441.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity	
Temperature range 17 to 385 K.		Temperature range 320 to 340 K.	
Entropy 298.15 K,	$S = 448.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Data given graphically.	
Phase Changes		Molecular Weight 311.5500	
c,II/c,I 317.5 K,	$\Delta H = 5040 \text{ J}\cdot\text{mol}^{-1}$	Wiswesser Line Notation 8OR D1U1R DYCN&6	
	$\Delta S = 15.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation C	
Superheating phenomenon occurs at 324 K.		Smectic C-smectic A, 324.3 K;	
c,I/liq 334.26 K,	$\Delta H = 25040 \text{ J}\cdot\text{mol}^{-1}$	smectic A-nematic, 337.3 K, $\Delta S = 1.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$;	
	$\Delta S = 74.90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	nematic-isotropic liquid, 338.5 K, $\Delta S = 6.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
		phase change data given. Assume trans isomer.	
Solid-nematic.			
Molecular Weight 295.4236		C₂₀H₄₂ (c)	55SCH/BUS
Wiswesser Line Notation 60R D1UNR D1		<i>n</i> -Eicosane	
Evaluation A		Phase Changes	
Nematic-isotropic liquid phase change data also given:		c,II/c,I 309.35 K	
346.90 K,	$\Delta H = 1370 \text{ J}\cdot\text{mol}^{-1}$,	c,I/liq 309.75 K,	$\Delta H = 69873 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 3.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		$\Delta S = 225.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₀H₂₆O (c)	79LEW/ENE	Molecular Weight 282.5518	
Northindrone		Wiswesser Line Notation 20H	
Phase Changes		Evaluation B	
c/liq 479 K,	$\Delta H = 39600 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 82.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 282.4248		C₂₀H₂₈ZrO₆ (c)	86GRI/LAZ
Wiswesser Line Notation L E5 B666 OV MUTJ E1 FQ F1UU1		Zirconium acetylacetonate	
Evaluation A		Phase Changes	
		c/liq 470.8 K,	$\Delta H = 50100 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 455.6576	
		Wiswesser Line Notation D6O-ZR-O ADJ D1 F1 B-&	
		BD6O-ZR-O ADJ D1 F1 B-& BD6O-ZR-O ADJ D1 F1	
		B-& BD6O-ZR-O ADJ D1 F1	
		Evaluation A	
		C₂₀H₄₂ (c)	73COM
		<i>n</i> -Eicosane	
		Phase Changes	
		c/liq 309.75 K,	$\Delta H = 69873 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 225.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Molecular Weight 282.5518	
		Wiswesser Line Notation 20H	
		Evaluation B	

<p>C₂₀H₄₂ (c) 84SYU/TUM <i>n</i>-Eicosane Phase Changes c/liq 308.5 K, $\Delta H = 70900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 229.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Relative error in determination $\pm 5\%$. Molecular Weight 282.5518 Wiswesser Line Notation 20H Evaluation B</p>	<p>C₂₀.84H₁₆.66O₀.62 (c) 78KAR/SAP Polyphenylene PP-1 Heat Capacity 300 K, $C_p = 280 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 100 to 600 K. Data given graphically. Value estimated from graph. Entropy 298.15 K, $S = 253.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 277.0205 Wiswesser Line Notation /*R DR C* ER/ Evaluation C WLN excludes ketal end groups and use the repeating unit: (C₁₈H₁₂)_n.</p>
<p>C₂₀H₄₂ (c) 85KOL/SYU <i>n</i>-Eicosane Phase Changes c/liq 308.8 K, $\Delta H = 67800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 219.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 282.5518 Wiswesser Line Notation 20H Evaluation A</p>	<p>C₂₀.84H₁₆.66O₀.62 (c) 78KAR/SAP Polyphenylene PP-2 Heat Capacity 300 K, $C_p = 230 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 100 to 600 K. Data given graphically. Value estimated from graph. Entropy 298.15 K, $S = 222.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 277.0205 Wiswesser Line Notation /*R DR C* ER/ Evaluation C WLN excludes ketal end groups and use the repeating unit: (C₁₈H₁₂)_n. PP-2 is the product of thermal crosslinking of PP-1.</p>
<p>C₂₀H₄₂ (liq) 81HOE <i>n</i>-Eicosane Heat Capacity 325 K, $C_p = 664 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 300 to 500 K. $C_v = 2.32 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 282.5518 Wiswesser Line Notation 20H Evaluation B</p>	<p>(C₂₁H₁₂N₂O₂)_n (c) 75KAR/RAB Poly-2,2'-(<i>m</i>-phenylene)-5,5'-dibenzoxazole methane Heat Capacity Temperature range 60 to 350 K. Data given graphically. Entropy 300 K, $S = 330.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 324.3381 Wiswesser Line Notation /T56 BN DOJ C* H1- HT56 BN DOJ CR& C*/ Evaluation A</p>
<p>C₂₀H₄₂S (liq) 82TUT/GAB 1-Eicosanethiol; <i>n</i>-Eicosanyl mercaptan Heat Capacity 300 K, $C_p = 725.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 273 to 373 K. $C_p = 702.70 + 4.703 \times 10^{-2}T + 10.040 \times 10^{-5}T^2$. Molecular Weight 314.6118 Wiswesser Line Notation SH20 Evaluation B</p>	<p>C₂₁H₁₅N₃ (c) 84LEB/BYK2 Triphenyl-<i>s</i>-triazine Heat Capacity 298.15 K, $C_p = 345.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 18 to 330 K. Entropy 298.15 K, $S = 349.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Phase Changes c/liq 506.65 K Molecular Weight 309.3696 Wiswesser Line Notation T6N CN ENJ BR DR FR Evaluation A</p>
<p>C₂₀H₄₄CIN (c) 88VAN/WHI Di-<i>n</i>-decylammonium chloride Heat Capacity 297.93 K, $C_p = 631.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 25 to 350 K. Unsmoothed experimental datum. Phase Changes c,III/c,II 320.13 K c,II/c,I 321.50 K, $\Delta H = 50590 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 158.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H, \Delta S$ combined data. Molecular Weight 334.0273 Wiswesser Line Notation 10M10 &GH Evaluation A</p>	<p>(C₂₁H₁₆N₂O₄)_n (c) 75KAR/RAB Poly-4,4'-dihydroxy-3,3'-isophthalamidodiphenylmethane Heat Capacity Temperature range 60 to 350 K. Data given graphically. Entropy 300 K, $S = 448.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 360.3685 Wiswesser Line Notation /*VMR BQ EIR DQ CMVR C*/ Evaluation A</p>
<p>C₂₀H₄₈Cl₄MnN₂ (c) 75BOC/ARR Tetrachlorobis-(decylammonium) manganese II Phase Changes c,III/c,II 309 K, $\Delta H = 1937 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,II/c,I 437 K, $\Delta H = 16.8 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.038 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 513.3626 Wiswesser Line Notation 10ZH 2 .MN G4 Evaluation A</p>	<p>C₂₁H₂₁O₄P (gls) 86OVC/POD Tricresyl phosphate Heat Capacity 298.15 K, $C_p = 578 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 6 to 320 K. Entropy 298.15 K, $S = 570 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 368.3683 Wiswesser Line Notation OPOR D1 &OR D1 &OR D1 Evaluation A $T(\text{glass}) = 207.0 \text{ K}$.</p>

C₂₁H₂₄N₂O₃ (c)	83FAN/POE	C₂₁H₂₅N (liq)	82THO/MAR
4-Propionyl-4'- <i>n</i> -hexanoyloxyazobenzene		Octylcyanobiphenyl	
Phase Changes		Phase Changes	
c/liq 372.15 K, $\Delta H = 29790 \text{ J}\cdot\text{mol}^{-1}$		c/liq 294.45 K, $\Delta H = 25700 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 87.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid-smectic A.		Solid-smectic A.	
Molecular Weight 352.4322		liq/liq 306.921 K	
Wiswesser Line Notation 5VOR DNUNR DV2		Smectic A-nematic.	
Evaluation A		Continuous transition with an upper limit of $0.4 \text{ J}\cdot\text{mol}^{-1}$.	
Smectic A-nematic; nematic-isotropic;		liq/liq 313.91 K, $\Delta H = 612 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 1.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
smectic A-smectic B (monotropic phase) liquid		Nematic-isotropic.	
phase change data also given:		Molecular Weight 291.4352	
411.65 K, $\Delta H = 3933 \text{ J}\cdot\text{mol}^{-1}$;		Wiswesser Line Notation NCR DR D8	
420.65 K, $\Delta H = 879 \text{ J}\cdot\text{mol}^{-1}$;		Evaluation B	
361.65 K, $\Delta H = 2720 \text{ J}\cdot\text{mol}^{-1}$.			
C₂₁H₂₄O₄ (c)	87LES/LIC	C₂₁H₂₅NO₅ (c)	82RAC/MAS
2,2-Bis(phenyl-4-glycidoxy)propane		4-Nitrophenyl-4'-octyloxybenzoate	
Heat Capacity 298 K, $C_p = 485.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Heat Capacity 300 K, $C_p = 510 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
Temperature range 250 to 300 K.		Temperature range 100 to 356 K.	
Phase Changes		Data given graphically.	
c/liq 313 K		Value given is an estimate from the graph.	
Molecular Weight 340.4182		Phase Changes	
Wiswesser Line Notation T3OTJ B1OR DXR DO1- BT3OTJ		c/liq 323.70 K, $\Delta H = 34426 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 106.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Solid-smectic.	
		liq/liq 334.9 K, $\Delta H = 213 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 0.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₁H₂₄Si₃O₃ (c)	81MEK/KAR	Smectic-nematic.	
<i>cis</i> -Tri(methylphenyl)trisiloxane		liq/liq 341.2 K, $\Delta H = 448 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat Capacity 298.15 K, $C_p = 538.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Nematic-isotropic.	
Temperature range 13 to 390 K.		Molecular Weight 371.4322	
Data given graphically.		Wiswesser Line Notation WNR DOVR DO8	
Entropy 298.15 K, $S = 571.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Evaluation B	
Phase Changes			
c/liq 373.2 K, $\Delta H = 47254 \text{ J}\cdot\text{mol}^{-1}$		C₂₁H₂₅NO₅ (c)	79BAT/BUK
$\Delta S = 115.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		4'-Nitrophenyl-4- <i>n</i> -octyloxybenzoate	
Molecular Weight 408.6753		Phase Changes	
Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A1 AR C1		c,II/liq 323.2 K, $\Delta H = 34720 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 108 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CR E1 ER-C		liq/liq 334 K, $\Delta H = 90 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 0.30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Smectic-A-nematic.	
		liq/liq 341 K, $\Delta H = 290 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 0.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₁H₂₄Si₃O₃ (c)	81MEK/KAR	Nematic-isotropic.	
<i>trans</i> -Tri(methylphenyl)trisiloxane		c,II/c,I 323 K	
Heat Capacity 298.15 K, $C_p = 506.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Molecular Weight 371.4322	
Temperature range 13 to 390 K.		Wiswesser Line Notation WNR DOVR DO8	
Data given graphically.		Evaluation B	
Entropy 298.15 K, $S = 564 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$			
Phase Changes		C₂₁H₄₄ (c)	55SCH/BUS
c/liq 320.9 K, $\Delta H = 43769 \text{ J}\cdot\text{mol}^{-1}$		<i>n</i> -Heneicosane	
$\Delta S = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		Phase Changes	
Molecular Weight 408.6753		c,II/c,I 305.65 K, $\Delta H = 15481 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 50.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation T6-SI-O-SI-O-SI-OTJ A1 AR C1		c,I/liq 313.35 K, $\Delta H = 47698 \text{ J}\cdot\text{mol}^{-1}$	$\Delta S = 152.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
CR E1 ER-T		Molecular Weight 296.5786	
Evaluation A		Wiswesser Line Notation 21H	
		Evaluation B	
C₂₁H₂₅N (c)	83MAR/THO		
Octylcyanobiphenyl			
Phase Changes			
liq/liq $\Delta H = 0.4 \text{ J}\cdot\text{mol}^{-1}$			
Smectic A - nematic.			
liq/liq $\Delta H = 612 \text{ J}\cdot\text{mol}^{-1}$			
Nematic - isotropic.			
c/liq $\Delta H = 25700 \text{ J}\cdot\text{mol}^{-1}$			
Solid-smectic A.			
Molecular Weight 291.4352			
Wiswesser Line Notation NCR DR D8			
Evaluation D			

C₂₂H₁₃N₃O₇ (c)	79FAR/SHA	C₂₂H₁₈O₄ (c)	84OZC/ASR
Fluoranthene picric acid		4,4'-Dipropanoxydiphenyldiacetylene	
Phase Changes		Phase Changes	
c,II/c,I 365.6 K,	$\Delta H = 13800 \text{ J}\cdot\text{mol}^{-1}$	c,III/c,II 351 K,	$\Delta H = 586 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 37.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 1.674 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq 462.4 K,	$\Delta H = 24700 \text{ J}\cdot\text{mol}^{-1}$	c,II/c,I 359 K,	$\Delta H = 7530 \text{ J}\cdot\text{mol}^{-1}$
	$\Delta S = 53.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 20.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 431.3606		c,I/liq 430 K,	$\Delta H = 19400 \text{ J}\cdot\text{mol}^{-1}$
Wiswesser Line Notation L C6566 1A PJ &WNR BQ CNW ENW			$\Delta S = 45.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation B		Solid-nematic.	
		Molecular Weight 346.3818	
		Wiswesser Line Notation 2VOR DIUU2UU1R DOV2	
		Evaluation A	
		Nematic-isotropic liquid phase change data also given:	
		470 K,	$\Delta H = 1380 \text{ J}\cdot\text{mol}^{-1}$,
			$\Delta S = 2.929 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
C₂₂H₁₃N₃O₇ (c)	79FAR/SHA	C₂₂H₂₀N₂O₂ (c)	87BYK/KIP
Pyrene picric acid		3-Phenyl-5-phenoxyethyl-2-N-phenyliminooxazolidine	
Phase Changes		Heat Capacity 298.15 K,	$C_p = 400.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 443.2 K,	$\Delta H = 2900 \text{ J}\cdot\text{mol}^{-1}$	Temperature range 0 to 330 K.	
	$\Delta S = 6.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 426.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 456.6 K,	$\Delta H = 1200 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 344.4122	
	$\Delta S = 2.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation T5NYOTJ AR BUNR D1OR	
c/liq 506.6 K,	$\Delta H = 32600 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 431.3606			
Wiswesser Line Notation L666 B6 2AB PJ &WNR BQ CNW ENW			
Evaluation B			
(C₂₂H₁₄N₂O₇)_n (c)	77KAR/BAZ	C₂₂H₂₆ (c)	83KRA/BEC
Poly-(p,p'-diphenylene oxide)pyromellitimide		1,1'-Diphenyl-1,1'-bicyclopentane	
Heat Capacity 300 K,	$C_p = 592.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298 K,	$C_p = 375.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 60 to 400 K.		One temperature.	
Entropy 300 K,	$\Delta S = 543.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		C_p given as $0.309 \text{ Cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
Molecular Weight 418.3619		Molecular Weight 290.4474	
Wiswesser Line Notation /*MVR BVQ DVQ EVMR DOR D*/		Wiswesser Line Notation L5TJ AR A- AL5TJ AR	
Evaluation B		Evaluation B	
C₂₂H₁₄O₄ (c)	77KAR/RAB	C₂₂H₂₆N₂O₃ (c)	83FAN/POE
1,4-Bis(phenylglyoxaloyl)benzene		4-Propionyl-4'-n-heptanoyloxazobenzene	
Heat Capacity 300 K,	$C_p = 435 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 100 to 700 K.		c/liq 365.15 K,	$\Delta H = 24811 \text{ J}\cdot\text{mol}^{-1}$
Data given graphically.			$\Delta S = 67.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Value estimated from graph.		Solid-smectic A.	
Entropy 300 K,	$S = 381.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 366.4590	
Phase Changes		Wiswesser Line Notation 6VOR DNUNR DV2	
c/liq 425.1 K,	$\Delta H = 32300 \text{ J}\cdot\text{mol}^{-1}$	Evaluation A	
	$\Delta S = 76.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Smectic A-nematic; nematic-isotropic;	
Molecular Weight 342.3502		smectic A-montropic hexatic;	
Wiswesser Line Notation RVVR DVVR		hexatic-montropic smectic B liquid phase change data also given:	
Evaluation C(C_p),A(S,Phase changes)		414.65 K,	$\Delta H = 5314 \text{ J}\cdot\text{mol}^{-1}$;
		416.65 K,	$\Delta H = 920 \text{ J}\cdot\text{mol}^{-1}$;
		362.85 K,	$\Delta H = 1590 \text{ J}\cdot\text{mol}^{-1}$;
		358.55 K,	$\Delta H = 84 \text{ J}\cdot\text{mol}^{-1}$.
C₂₂H₁₈N₄O₄ (c)	79KAR/SAP	C₂₂H₂₇N (c)	83MAR/THO
4,4'-Diphenylenephthalidodicarboxylic acid dihydrazide		Nonylcyanobiphenyl	
Heat Capacity 298.15 K,	$C_p = 460.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
Temperature range 60 to 298 K.		liq/liq 320.8 K,	$\Delta H = 5 \text{ J}\cdot\text{mol}^{-1}$
Entropy 298.15 K,	$S = 441.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		$\Delta S = 0.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 402.4086		Smectic A – nematic.	
Wiswesser Line Notation T56 BHOVT&J BR DVMZ& BR DVMZ		liq/liq 322.7 K,	$\Delta H = 1200 \text{ J}\cdot\text{mol}^{-1}$
Evaluation A			$\Delta S = 3.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Nematic – isotropic.	
		c/liq	$\Delta H = 34500 \text{ J}\cdot\text{mol}^{-1}$
		Solid – smectic A.	
		Molecular Weight 305.4620	
		Wiswesser Line Notation NCR DR D9	
		Evaluation D	

C₂₂H₂₈N₂O₄Ni (c) Bis[N-(3-methoxysalicylidene)isopropylamine] nickel(II) Heat Capacity 299.010 K, Temperature range 230 to 343 K. Unsmoothed experimental datum. Molecular Weight 443.1742 Wiswesser Line Notation T6 C6-NI- BO JNJ DO1 JY1&1 A- & AT6 C6-NI- BO JNJ DO1 JY1&1 Evaluation B $T(\text{glass}) = 297.5 \text{ K}$, $\Delta C_p = 172 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	72ARA/SOR	C₂₂H₄₂O₄ (liq) Di- <i>n</i> -hexyl sebacate Heat Capacity 303.15 K, Temperature range 303 to 393 K. Phase Changes c/liq 274 K Molecular Weight 370.5714 Wiswesser Line Notation 60V8VO6 Evaluation B	75PHI/WAL $C_p = 711 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₂H₂₈O₂ (c) Northindrone acetate Phase Changes c/liq 480 K, Molecular Weight 324.4620 Wiswesser Line Notation L E5 B666 OV MUTJ E1 FIUU1 FOV1 Evaluation A	79LEW/ENE	C₂₂H₄₄ (c) 1,1,10,10-Tetramethylcyclooctadecane Phase Changes c/liq 359 K, Molecular Weight 308.5896 Wiswesser Line Notation L-18-TJ A1 A1 J1 J1 Evaluation B	69BOR/DAL $\Delta H = 39581 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₂H₂₉NO (c) N- <i>p-n</i> -Pentyloxybenzylidene- <i>p'-n</i> -butylaniline Heat Capacity 298.15 K, Temperature range 11 to 393 K. $C_p = 2.3491T - 187.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (11 to 299.69 K). C_p value is calculated from equation. Entropy 280 K, Phase Changes c/liq 299.69 K, Solid-smectic G liquid transition. liq/liq 325.72 K, Smectic G – nematic liquid transition. liq/liq 342.48 K, Nematic – isotropic liquid transition. Molecular Weight 323.4772 Wiswesser Line Notation 5OR D1UNR D4 Evaluation A	83SOR/TAN	C₂₂H₄₆ (c) <i>n</i> -Docosane Phase Changes c,II/c,I 316.15 K, c,I/liq 317.15 K, Molecular Weight 310.6054 Wiswesser Line Notation 22H Evaluation B	55SCH/BUS $\Delta H = 28200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 89.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 48953 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 154.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₂H₂₉NO (gls) N- <i>p-n</i> -Pentyloxybenzylidene- <i>p'-n</i> -butylaniline Heat Capacity 300 K, Temperature range 10 to 320 K. Entropy 300 K, Molecular Weight 323.4772 Wiswesser Line Notation 5OR D1UNR D4 Evaluation A Glassy and undercooled S _G phase.	83SOR/TAN	C₂₂H₄₆ (c) <i>n</i> -Docosane Phase Changes c,II/c,I 316.25 K, c,I/liq 317.25 K, Molecular Weight 310.6054 Wiswesser Line Notation 22H Evaluation B	73COM $\Delta H = 28200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 89.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 48952 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 154.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₂H₄₂O₄ (liq) Di(2-ethylhexyl)adipate Heat Capacity 300 K, Temperature range 6 to 300 K. Entropy 300 K, Phase Changes c/liq 161.5 K Glass transition. Molecular Weight 370.5714 Wiswesser Line Notation 4Y1&1OV4VO1Y1&4 Evaluation A	85OVC/MOS	C₂₂H₄₆ (c) <i>n</i> -Docosane Heat Capacity 300 K, Temperature range 300 to 500 K. $C_v = 1.48 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 310.6054 Wiswesser Line Notation 22H Evaluation B	79CLA/LET $C_p = 468 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₂₃H₁₅N₃O₇ (c) 1,2-Benzfluorene picric acid Phase Changes c/liq 402.7 K, Molecular Weight 445.3874 Wiswesser Line Notation L D6 B566 CHJ & WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 45600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 113.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

C₂₃H₁₅N₃O₇ (c) 2,3-Benzfluorene picric acid Phase Changes c/liq 392.8 K, Molecular Weight 445.3874 Wiswesser Line Notation L D6 B656 LHJ &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 33500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 85.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₃H₃₁NO (c) <i>N-p-n</i> -Hexyloxybenzylidene- <i>p'</i> - <i>n</i> -butylaniline Heat Capacity 298.15 K, Temperature range 11 to 393 K. Entropy 298.15 K, Phase Changes c/liq 306.60 K, Molecular Weight 337.5040 Wiswesser Line Notation 60R D1UNR D4 Evaluation A Solid-smectic G. Smectic G-smectic B; smectic B-smectic A; smectic A-nematic; nematic-isotropic liquid phase change data given: 331.56 K, $\Delta H = 804 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 2.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; 332.86 K, $\Delta H = 3370 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 10.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; 343.24 K, $\Delta H = 3200 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 9.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$; 350.92 K, $\Delta H = 1890 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 5.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	83YOS/SOR3 $C_p = 512.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 537.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 23290 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₃H₁₇N (c) 2,4,6-Triphenylpyridine Heat Capacity 298.15 K, Temperature range 5 to 330 K. Entropy 298.15 K, Molecular Weight 307.3940 Wiswesser Line Notation T6NJ BR DR FR Evaluation A	85LEB/BYK $C_p = 358.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 371.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₃H₃₁NO (gls) <i>N-p-n</i> -Hexyloxybenzylidene- <i>p'</i> - <i>n</i> -butylaniline Heat Capacity 300 K, Temperature range 10 to 310 K. Entropy 300 K, Residual entropy of the glassy state at 0 K was estimated to be $7.51 \pm 0.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 337.5040 Wiswesser Line Notation 60R D1UNR D4 Evaluation A	83YOS/SOR3 $C_p = 595.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 615.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₃H₁₇N (c) 2,4,6-Triphenylpyridine Heat Capacity 298.15 K, Temperature range 14 to 330 K. Entropy 298.15 K, Molecular Weight 307.3940 Wiswesser Line Notation T6NJ BR DR FR Evaluation A	84BYK/KIP $C_p = 358.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 371.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₃H₄₈ (c) <i>n</i> -Tricosane Phase Changes c/liq 319.7 K, Relative error in determination $\pm 5\%$. Molecular Weight 324.6322 Wiswesser Line Notation 23H Evaluation C	84SYU/TUM $\Delta H = 76700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 239.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₃H₂₈N₂O₃ (c) 4-Propionyl-4'- <i>n</i> -octanoyloxyazobenzene Phase Changes c/liq 369.65 K, Molecular Weight 380.4858 Wiswesser Line Notation 7VOR DNUNR DV2 Evaluation A Smectic A-nematic; nematic-isotropic; smectic A-monotropic hexatic; hexatic-monotropic smectic B liquid phase change data also given: 416.15 K, $\Delta H = 5314 \text{ J}\cdot\text{mol}^{-1}$; 416.65 K, $\Delta H = 1004 \text{ J}\cdot\text{mol}^{-1}$; 359.85 K, $\Delta H = 1423 \text{ J}\cdot\text{mol}^{-1}$; 353.75 K, $\Delta H = 42 \text{ J}\cdot\text{mol}^{-1}$.	83FAN/POE $\Delta H = 27489 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 74.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₃H₄₈ (c) <i>n</i> -Tricosane Phase Changes c,II/c,I 313.65 K, c,I/liq 320.65 K, Molecular Weight 324.6322 Wiswesser Line Notation 23H Evaluation B	55SCH/BUS $\Delta H = 21757 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 69.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 53974 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 168.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₃H₂₉N (c) Decylcyanobiphenyl Phase Changes liq/liq Smectic A – isotropic. c/liq Solid – smectic A. Molecular Weight 319.4888 Wiswesser Line Notation NCR DR D10 Evaluation D	83MAR/THO $\Delta H = 2830 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 36000 \text{ J}\cdot\text{mol}^{-1}$		

C₂₄H₁₂N₆ (c) Polytriazine Heat Capacity 298.15 K, Temperature range 0 to 330 K. Entropy 298.15 K, Molecular Weight 384.3990 Wiswesser Line Notation /T6N CN ENJ BR DYUN*&* DR DYUN*&* FR DYUN*&*/ 1/3 Evaluation A	88LEB/BYK $C_p = 395.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 451.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₁₈ (c) <i>p</i> -Quaterphenyl Heat Capacity 298.15 K, Temperature range 3 to 300 K. Entropy 298.15 K, Phase Changes c,II/c,I 233.0 K, Transition region 180 to 270 K. Molecular Weight 306.4062 Wiswesser Line Notation RR DR DR Evaluation A	85SAI/ATA $C_p = 362.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 363.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 414 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₁₅N₃O₇ (c) Triphenylene picric acid Phase Changes c/liq 501.4 K, Molecular Weight 457.3984 Wiswesser Line Notation L B6 H666J &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 46900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 93.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₂₀BK (c) Potassium tetraphenyl boron Heat Capacity 298.15 K, Temperature range 20 to 298 K. Entropy 298.15 K, Molecular Weight 358.3303 Wiswesser Line Notation RBR&R&R &-KA- Evaluation B	57DAV/STA $C_p = 418.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 440.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₁₅N₃O₇ (c) 1,2-Benzanthracene picric acid Phase Changes c/liq 414.3 K, Molecular Weight 457.3984 Wiswesser Line Notation L D6 C666J &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 32200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 77.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₂₀BRb (c) Rubidium tetraphenyl boron Heat Capacity 298.15 K, Temperature range 20 to 298 K. Entropy 298.15 K, Molecular Weight 404.6998 Wiswesser Line Notation RBR&R&R &-RB- Evaluation B	57DAV/STA $C_p = 412.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 444.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₁₈ (c) 1,3,5-Triphenylbenzene Heat Capacity 298.15 K, Temperature range 13.8 to 480 K. Entropy 298.15 K, Phase Changes c/liq 446 K, Molecular Weight 306.4063 Wiswesser Line Notation RR CR ER Evaluation A	82LEB/BYK $C_p = 361.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 375.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 33400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₂₀CrI (c) Bis(biphenyl)chromium iodide Heat Capacity 298.15 K, Temperature range 60 to 298.15 K. Entropy 298.15 K, Molecular Weight 487.3225 Wiswesser Line Notation L6ØJA- AL6ØJ Ø-CR-- ØL6ØJA- AL6ØJ &I Evaluation B	72NIK/SAF $C_p = 437.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 424.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₁₈ (c) <i>p</i> -Quaterphenyl Phase Changes c/liq 587.2 K, Molecular Weight 306.4062 Wiswesser Line Notation RR DR DR Evaluation A	79SMI $\Delta H = 37800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₂₂O₄ (c) 4,4'-Dibutanoyloxydiphenyldiacetylene Phase Changes c,V/c,IV 319 K, c,IV/c,III 368 K, c,III/c,II 400 K, c,II/c,I 408 K, c,II/c,II,c,II/c,I transitions combined. c,I/liq 416 K, Solid-nematic. Molecular Weight 374.4354 Wiswesser Line Notation 3VOR D1UU2UU1R DOV3 Evaluation A Nematic-isotropic liquid phase change data also given: 453 K, $\Delta H = 1250 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 2.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	84OZC/ASR $\Delta H = 10400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 32.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1510 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 12.5 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 0.2929 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 20100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₁₈ (c) <i>p</i> -Quaterphenyl Heat Capacity 300 K, Temperature range 180 to 600 K. Data given graphically. Value estimated from graph. Phase Changes c,III/c,II 190–260 K, c,II/c,I 450–540 K, c/liq 586.7 K, Molecular Weight 306.4062 Wiswesser Line Notation RR DR DR Evaluation C(C_p), B(Phase changes)	82WAS/RAD $C_p = 340 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 1100 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 1000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta H = 57600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 98.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₂₄H₂₄BN (c)	57DAV/STA	C₂₄H₃₄ (liq)	60KAR/STR4
Ammonium tetraphenyl boron		1,1-Diphenyldodecane	
Heat Capacity 298.15 K,	$C_p = 434.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 593.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 20 to 298 K.		Temperature range 10 to 300 K.	
Entropy 298.15 K,	$S = 457.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Entropy 298.15 K,	$S = 684.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 337.2703		Phase Changes	
Wiswesser Line Notation RBR&R&R &ZH		c,II/c,I	191 K,
Evaluation B			$\Delta H = 1928 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 10.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		c,I/liq	281.40 K,
			$\Delta H = 38844 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₂₈O₂Si₃ (liq)	81SHA/DZH	Molecular Weight 322.5326	
1,1,1,5,5,5-Hexamethyl-3,3-diphenyltrisiloxane		Wiswesser Line Notation 11YR&R	
Heat Capacity 298 K,	$C_p = 648 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 12 to 300 K.		See also 60KAR/STR2.	
Entropy 298 K,	$S = 769 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Phase Changes		C₂₄H₃₈O₄ (c)	70MAR/RAB
c/liq	270.49 K,	Di-(2-ethylhexyl) <i>o</i> -phthalate	
	$\Delta H = 22753 \text{ J}\cdot\text{mol}^{-1}$	Molecular Weight 390.5618	
	$\Delta S = 84.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Wiswesser Line Notation 4Y2&1OVR BVO1Y2&4	
Molecular Weight 432.7405		Evaluation B	
Wiswesser Line Notation 1-SI-1&1&O-SI-R&R&O-SI-1&1&1		$T(\text{glass}) = 182.5 \text{ }^\circ\text{C}$.	
Evaluation A			
$T(\text{glass}) = 178 \text{ K}$.			
C₂₄H₃₀ (c)	83KRA/BEC	C₂₄H₃₈O₄ (liq)	85RAB/NOV
1,1'-Diphenyl-1,1'-bicyclohexane		Di-(2-ethylhexyl) <i>o</i> -phthalate	
Heat Capacity 298 K,	$C_p = 403.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 704.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
One temperature.		Temperature range 14 to 300 K.	
C_p given as $0.303 \text{ Cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Entropy 298.15 K,	$S = 807.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 318.5010		Molecular Weight 390.5618	
Wiswesser Line Notation L6TJ AR A- AL6TJ AR		Wiswesser Line Notation 4Y2&1OVR BVO1Y2&4	
Evaluation B		Evaluation A	
		Data given for glassy state from 10 to 180 K.	
		Glass transition temperature,	
		$T(\text{glass}) = 182.5 \text{ K}$.	
C₂₄H₃₀N₂O₃ (c)	83FAN/POE	C₂₄H₃₈O₄ (c)	70MAR/RAB
4-Propionyl-4'- <i>n</i> -nonanoyloxyazobenzene		Diocetyl <i>o</i> -phthalate	
Phase Changes		Heat Capacity 300 K,	$C_p = 707.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	367.15 K,	Temperature range 60 to 360 K.	
	$\Delta H = 3017 \text{ J}\cdot\text{mol}^{-1}$	Entropy 300 K,	$S = 755.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 8.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 390.5618	
Solid-smectic A.		Wiswesser Line Notation 80VR BVO8	
Molecular Weight 394.5126		Evaluation B	
Wiswesser Line Notation 8VOR DNUNR DV2			
Evaluation A		C₂₄H₄₀ (liq)	60KAR/STR4
Smectic A-isotropic; smectic A-monotropic hexatic;		1-Phenyl-1-cyclohexyldodecane	
hexatic-monotropic smectic B liquid phase change data also given:		Heat Capacity 298.15 K,	$C_p = 611.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
417.15 K,	$\Delta H = 7029 \text{ J}\cdot\text{mol}^{-1}$;	Temperature range 10 to 300 K.	
361.05 K,	$\Delta H = 1757 \text{ J}\cdot\text{mol}^{-1}$;	Entropy 298.15 K,	$S = 695.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
353.25 K,	$\Delta H = 42 \text{ J}\cdot\text{mol}^{-1}$.	Phase Changes	
		c,I/liq	275.84 K,
			$\Delta H = 35171 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 127.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₃₁N (c)	83MAR/THO	Molecular Weight 328.5800	
Undecylcyanobiphenyl		Wiswesser Line Notation L6TJ AY11&R	
Phase Changes		Evaluation A	
liq/liq	$\Delta H = 3800 \text{ J}\cdot\text{mol}^{-1}$		
Smectic A – isotropic.		C₂₄H₄₆ (c)	60KAR/STR4
c/liq	$\Delta H = 43200 \text{ J}\cdot\text{mol}^{-1}$	1,1-Dicyclohexyldodecane	
Solid – smectic A.		Heat Capacity 298.15 K,	$C_p = 562.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 333.5156		Temperature range 10 to 300 K.	
Wiswesser Line Notation NCR NR D11		Entropy 298.15 K,	$S = 545.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation D		Phase Changes	
		c/liq	300.58 K,
			$\Delta H = 44267 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 147.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₃₂O₃ (liq)	85SHA/ZHU	Molecular Weight 334.6274	
4- <i>n</i> -Heptoxyphenyl-4'- <i>n</i> -butylbenzoate		Wiswesser Line Notation L6TJ AY11&- AL6TJ	
Heat Capacity 312.14 K,	$C_p = 793.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation A	
Temperature range 312 to 354 K.			
Unsmoothed experimental datum.			
Phase Changes			
liq/liq	317.3 K,		
	$\Delta H = 490 \text{ J}\cdot\text{mol}^{-1}$		
	$\Delta S = 1.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
Molecular Weight 368.5150			
Wiswesser Line Notation 7OR DOVR D4			
Evaluation B			

C₂₄H₅₀ (c) <i>n</i> -Tetracosane Phase Changes c,II/c,I 321.25 K, c,I/liq 323.75 K, Molecular Weight 338.6590 Wiswesser Line Notation 24H Evaluation B	55SCH/BUS $\Delta H = 31296 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 54894 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₅₆Cl₄N₂Zn (c) Dodecylammonium tetrachlorozincate (II) Heat Capacity 298.15 K, Temperature range 280 to 500 K. Phase Changes c,II/c,I 364.3 K, c,I/liq 435.1 K, Molecular Weight 579.9118 Wiswesser Line Notation -12-ZH 2 .ZN G4 Evaluation A	88ZHA/YAN $C_p = 851.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 66790 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 183.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9120 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 20.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₅₀ (c) <i>n</i> -Tetracosane Phase Changes c,II/c,I 321.35 K, c,I/liq 323.85 K, Molecular Weight 338.6590 Wiswesser Line Notation 24H Evaluation B	73COM $\Delta H = 31296 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 54894 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 169.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₄H₅₆Cl₄N₂Zn (c) Dodecylammonium tetrachlorozincate (II) Heat Capacity 298.15 K, Temperature range 280 to 500 K. Phase Changes c,II/c,I 364.3 K, c,I/liq 435.1 K, Molecular Weight 579.9118 Wiswesser Line Notation -12-Z 2 &GH 2 &-ZN- G2 Evaluation A	88ZHA/YAN $C_p = 851.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 66790 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 183.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 9120 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 20.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₅₀ (c) <i>n</i> -Tetracosane Heat Capacity 300 K, Temperature range 300 to 500 K. $C_v = 1.75 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 338.6590 Wiswesser Line Notation 24H Evaluation B	81HOE $C_p = 601 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₅H₃₂N₂O₃ (c) 4-Propionyl-4'- <i>n</i> -decanoyloxyazobenzene Phase Changes c/liq 371.15 K, Solid-smectic A. Molecular Weight 408.5394 Wiswesser Line Notation 9VOR DNUNR DV2 Evaluation A Smectic A-esotropic; smectic A-monotropic hexatic liquid phase change data also given: 417.65 K, $\Delta H = 7196 \text{ J}\cdot\text{mol}^{-1}$; 359.95 K, $\Delta H = 1088 \text{ J}\cdot\text{mol}^{-1}$.	83FAN/POE $\Delta H = 32928 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 88.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₅₀ (c) <i>n</i> -Tetracosane Phase Changes c/liq 322.0 K, Relative error in determination $\pm 5\%$. Molecular Weight 338.6590 Wiswesser Line Notation 24H Evaluation C	84SYU/TUM $\Delta H = 81750 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 253.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₅H₃₄O₂ (c) Northindrone dimethylpropionate Phase Changes c/liq 500 K, Molecular Weight 366.5424 Wiswesser Line Notation L E5 B666 OV MUTJ E1 FOVX1&1&1 F1UU1 Evaluation A	79LEW/ENE $\Delta H = 37800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 75.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₅₆Cl₄MnN₂ (c) Dodecylammonium tetrachloromanganate (II) Heat Capacity 298.15 K, Temperature range 280 to 500 K. Phase Changes c,III/c,II 330.6 K, c,II/c,I 334.5 K, Molecular Weight 569.4698 Wiswesser Line Notation -12-ZH 2 .MN G4 Evaluation A	87ZHA $C_p = 869.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 47780 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 144.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5960 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 17.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₅H₄₀O₂Si₂ (c) Northindrone pentamethyldisiloxy ether Phase Changes c/liq 355 K, Molecular Weight 428.7608 Wiswesser Line Notation L E5 B666 OV MUTJ E1 F1UU1 FO-SI-1&1&O-SI-1&1&1 Evaluation A	79LEW/ENE $\Delta H = 22900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₄H₅₆Cl₄MnN₂ (c) Dodecylammonium tetrachloromanganate (II) Heat Capacity 298.15 K, Temperature range 280 to 500 K. Phase Changes c,III/c,II 330.6 K, c,II/c,I 334.5 K, Molecular Weight 569.4698 Wiswesser Line Notation -12-ZH 2 .MN G4 Evaluation A	88ZHA/YAN $C_p = 869.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 47780 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 144.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 5960 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 17.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		

C₂₅H₄₈O₄ (liq) Bis(2-ethylhexyl)azelaate; Bis(2-ethylhexyl) nonadioate Heat Capacity 298.15 K, Temperature range 13 to 335 K. Entropy 298.15 K, Phase Changes c,glis/liq 160.0 K Molecular Weight 412.6518 Wiswesser Line Notation 4Y2&1OV7VO1Y2&4 Evaluation A	83BAB/RAB $C_p = 799.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 899.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₂₀N₆O (c) Bis-(o-aminophenyl)-2,2'-dibenzimidazole oxide Heat Capacity 298.15 K, Temperature range 60 to 298 K. Entropy 298.15 K, Molecular Weight 432.4838 Wiswesser Line Notation ZR B- CT56 BM DNJ H- 2 O Evaluation B	84KAR/SHV $C_p = 471.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 426.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₅H₅₂ (c) <i>n</i> -Pentacosane Phase Changes c,II/c,I 320.15 K, c,I/liq 326.65 K, Molecular Weight 352.6858 Wiswesser Line Notation 25H Evaluation B	55SCH/BUS $\Delta H = 26066 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 81.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 57739 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 176.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₂₀Sn (c) Triphenyl phenylethynyl tin Heat Capacity 298.15 K, One temperature. C_p given as $0.992 \text{ J}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 451.1340 Wiswesser Line Notation R-SN-R&R&1UU1R Evaluation B	85CAR/LAY $C_p = 447.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₅H₅₂ (c) <i>n</i> -Pentacosane Phase Changes c,II/c,I 319.85 K, c,I/liq 326.25 K, Molecular Weight 352.6858 Wiswesser Line Notation 25H Evaluation B	79CLA/LET $\Delta H = 25235 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 78.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 56605 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 173.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₂₆O₄ (c) 4,4'-Dipentanoyloxydiphenyldiacetylene Phase Changes c,III/c,II 272 K c,II/c,I 290 K, c,II/c,II, c,II/c,I transitions combined. c,I/liq 405 K, Solid-nematic. Molecular Weight 402.4891 Wiswesser Line Notation 4VOR D1UU2UU1R DOV4 Evaluation A Nematic-isotropic liquid phase change data also given: 434 K, 434 K,	84OZC/ASR $\Delta H = 1240 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.309 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 24700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 2300 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 3.390 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
C₂₆H₁₅N₃O₇ (c) Perylene picric acid Phase Changes c/liq 495.0 K, Molecular Weight 481.4204 Wiswesser Line Notation L666 L6 K6 2AL TJ &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 42300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 85.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₃₄ (c) 1,1'-Diphenyl-1,1'-bicyclooctane Heat Capacity 298 K, One temperature. C_p given as $0.313 \text{ Cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 346.5546 Wiswesser Line Notation L8TJ AR A- AL8TJ AR Evaluation B	83KRA/BEC $C_p = 453.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₂₆H₁₅N₃O₇ (c) Benzo[a]pyrene picric acid Phase Changes c/liq 475.5 K, Molecular Weight 481.4204 Wiswesser Line Notation L D6 B6666 2AB TJ &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 39300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 82.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₃₄N₂O₃ (c) 4-Propionyl-4'- <i>n</i> -undecanoyloxyazobenzene Phase Changes c/liq 370.65 K, Solid-smectic A. Molecular Weight 422.5662 Wiswesser Line Notation 10VOR DNUNR DV2 Evaluation A Smectic A-isotropic liquid phase change data also given: 416.65 K, 416.65 K,	83FAN/POE $\Delta H = 37489 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 101.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 7573 \text{ J}\cdot\text{mol}^{-1}$.
C₂₆H₁₇N₃O₇ (c) β,β' -Binaphthyl picric acid Phase Changes c/liq 464.2 K, Molecular Weight 483.4362 Wiswesser Line Notation L66J A- AL66J &WNR BQ CNW ENW Evaluation B	79FAR/SHA $\Delta H = 41400 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 89.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₂₆H₃₈ (c) 2,3-Dimethyl-2,3-bis(4- <i>tert</i> -butylphenyl)butane Heat Capacity 298 K, One temperature. C_p given as $0.361 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 350.5862 Wiswesser Line Notation 1XR&R DX1&1&1 &X1&1&R DX1&1&1 Evaluation B	83KRA/BEC $C_p = 529.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

<p>C₂₆H₅₂ (c) 69BOR/DAL 1,1,4,4,10,10,13,13-Octamethyl cyclooctadecane Phase Changes c,II/c,I 427 K, $\Delta H = 6736 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/liq 438 K, $\Delta H = 20167 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 46.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 364.6968 Wiswesser Line Notation L-18-TJ A1 A1 D1 D1 J1 J1 M1 M1 Evaluation B</p>	<p>C₂₇H₅₆ (c) 55SCH/BUS <i>n</i>-Heptacosane Phase Changes c,II/c,I 320.25 K, $\Delta H = 28953 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 90.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 331.95 K, $\Delta H = 60417 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 182.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 380.7394 Wiswesser Line Notation 27H Evaluation B</p>
<p>C₂₆H₅₄ (c) 55SCH/BUS <i>n</i>-Hexacosane Phase Changes c,II/c,I 326.45 K, $\Delta H = 32217 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 329.45 K, $\Delta H = 59496 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 180.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 366.7126 Wiswesser Line Notation 26H Evaluation B</p>	<p>C₂₈H₁₅N₃O₇ (c) 79FAR/SHA <i>o</i>-Phenyleneepyrene picric acid Phase Changes c/liq 469.6 K, $\Delta H = 39300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 505.4424 Wiswesser Line Notation L E6 D4 B6666 2AB TJ &WNR BQ CNW ENW WNR BQ CNW ENW Evaluation B</p>
<p>C₂₆H₅₄ (c) 73COM <i>n</i>-Hexacosane Phase Changes c,II/c,I 326.55 K, $\Delta H = 34225 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 104.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,I/liq 329.55 K, $\Delta H = 59496 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 180.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 366.7126 Wiswesser Line Notation 26H Evaluation B</p>	<p>C₂₈H₁₇N₃O₇ (c) 79FAR/SHA Picene picric acid Phase Changes c,II/c,I 391 K, $\Delta H = 3300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/liq 437.9 K, $\Delta H = 21300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 48.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 507.4582 Wiswesser Line Notation L F6 E6 B666J &WNR BQ CNW ENW Evaluation B</p>
<p>C₂₇H₃₀O₂ (c) 79LEW/ENE Northindrone benzoate Phase Changes c/liq 531 K, $\Delta H = 41500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 386.5328 Wiswesser Line Notation L E5 B666 OV MUTJ E1 F1UU1 FOVR Evaluation A</p>	<p>C₂₈H₁₇N₃O₇ (c) 79FAR/SHA 1,2,3,4-Dibenzanthracene picric acid Phase Changes c,II/c,I 446.5 K, $\Delta H = 6700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 15.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c/liq 485.2 K, $\Delta H = 44800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 92.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 507.4582 Wiswesser Line Notation L D6 J6 C666J &WNR BQ CNW ENW Evaluation B</p>
<p>C₂₇H₃₆N₂O₃ (c) 83FAN/POE 4-Propionyl-4'-<i>n</i>-dodecanoyloxyazobenzene Phase Changes c/liq 373.65 K, $\Delta H = 38074 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 101.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-smectic A. Molecular Weight 436.5930 Wiswesser Line Notation 11VOR DNUNR DV2 Evaluation A Smectic A-isotropic liquid phase change data also given: 416.15 K, $\Delta H = 7866 \text{ J}\cdot\text{mol}^{-1}$.</p>	<p>C₂₈H₁₇N₃O₇ (c) 79FAR/SHA 1,2,5,6-Dibenzanthracene picric acid Phase Changes c/liq 493.0 K, $\Delta H = 54000 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 109.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 507.4582 Wiswesser Line Notation L G6 D6 B666J &WNR BQ CNW ENW Evaluation B</p>
<p>C₂₇H₃₈O₂ (c) 79LEW/ENE Northindrone heptanoate Phase Changes c/liq 340 K, $\Delta H = 21600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 394.5960 Wiswesser Line Notation L E5 B666 OV MUTJ E1 FOV6 F1UU1 Evaluation A</p>	<p>C₂₈H₁₈N₆ (c) 84RAB/KAR Phthalonitrile and <i>m</i>-phenylene diamine condensation product Heat Capacity 298.15 K, $C_p = 446.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 60 to 530 K. Entropy 298.15 K, $S = 424.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 438.4904 Wiswesser Line Notation ZR CZ &NCR DCN Evaluation A</p>

- (C₂₈H₂₄GeSi)_n** (gls) 78LEB/LEB2
 Diphenylsilane — diethynyl-di-phenylgermane vitreous copolymer;
 Polyvinylendiphenylsilyl,germyl- α,ω -dihydride copolymer
Heat Capacity 298.15 K $C_p = 566.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range for devitrification 280 to 310 K
 $T(\text{glass}) = 301 \text{ K}$
Molecular Weight 461.1931
Wiswesser Line Notation /*-SI-R7R&1U1-GE-R&R&1U1*/
Evaluation A
 Average molecular weight, $n = 10,000$
- (C₂₈H₂₄GeSi)_n** (gls) 78LEB/RAB
 Polyvinylendiphenylsilyl,germyl- α,ω -dihydride copolymer
Heat Capacity 298.15 K, $C_p = 566.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 7 to 330 K.
Entropy 298.15 K, $S = 583.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Glass like state.
Molecular Weight 461.1931
Wiswesser Line Notation /*-SI-R&R&1U1-GE-R&R&1U1*/
Evaluation A
 $T(\text{glass}) = 301 \text{ K}$
- C₂₈H₃₀O₄** (c) 84OZC/ASR
 4,4'-Dihexanoyloxydiphenyldiacetylene
Phase Changes
 c,III/c,II 343 K, $\Delta H = 19000 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 55.40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,II/c,I 396 K, $\Delta H = 1460 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 3.682 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 407 K, $\Delta H = 26300 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 64.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-nematic.
Molecular Weight 430.5426
Wiswesser Line Notation 5VOR D1UU2UU1R DOV5
Evaluation A
 Nematic-isotropic liquid phase change data also given:
 430 K, $\Delta H = 1710 \text{ J}\cdot\text{mol}^{-1}$,
 $\Delta S = 3.975 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
- C₂₈H₃₂Cl₄N₂Zn** (c) 82FER/SOC
 Bis-(tetradecylammonium)zinc tetrachloride
Heat Capacity
 Temperature range 360 to 370 K.
 Data given graphically.
Phase Changes
 c,III/c,II 362.5 K, $\Delta H = 9700 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 22.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Low temperature phase— intermediate phase.
 c,II/c,I 367 K, $\Delta H = 49690 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 7.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Intermediate phase— high temperature phase.
 c,I/liq 438 K, $\Delta H = 7500 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 17.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 High temperature phase— isotropic liquid phase.
Molecular Weight 603.7662
Wiswesser Line Notation 14ZH 2 .ZN G4
Evaluation A
- C₂₈H₃₂Si₄O₄** (c) 81MEK/KAR
 Tetra(methylphenyl)tetrasiloxane
Heat Capacity 298.15 K, $C_p = 615.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 13 to 390 K.
 Data given graphically.
Entropy 298.15 K, $S = 662.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes
 c/liq 373.0 K, $\Delta H = 42731 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 121.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 544.9004
Wiswesser Line Notation T8-SI-O-SI-O-SI-O-SI-O-TJ A1 AR C1 CR E1 ER G1 GR
Evaluation A
- C₂₈H₃₈N₂O₃** (c) 83FAN/POE
 4-Propionyl-4'-*n*-tridecanoyloxyazobenzene
Phase Changes
 c/liq 374.65 K, $\Delta H = 44769 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 119.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-smectic A.
Molecular Weight 450.6198
Wiswesser Line Notation 12VOR DNUNR DV2
Evaluation A
 Smectic A-isotropic liquid phase change data also given:
 416.65 K, $\Delta H = 8075 \text{ J}\cdot\text{mol}^{-1}$,
 $\Delta S = 19.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
- C₂₈H₄₀O₄** (liq) 81ARU/DAU
 4-(2-Methylbutoxy)phenyl ester of 4-*n*-decycloxybenzoic acid (D)
Molecular Weight 440.6216
Wiswesser Line Notation 10OR DVOR DO1Y2&1
Evaluation C
 Smectic C-smectic A, 323.7 K;
 smectic A-isotropic liquid,
 338.15 K, $\Delta S = 17.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$,
 phase change data given.
- C₂₈H₅₈** (c) 55SCH/BUS
n-Octacosane
Phase Changes
 c,II/c,I 331.15 K, $\Delta H = 35438 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 107.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 334.35 K, $\Delta H = 64643 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 193.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 394.7662
Wiswesser Line Notation 28H
Evaluation B
- C₂₈H₅₈** (c) 73COM
n-Octacosane
Phase Changes
 c,II/c,I 331.25 K, $\Delta H = 35438 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 107.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 334.45 K, $\Delta H = 64642 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 193.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 394.7662
Wiswesser Line Notation 28H
Evaluation B
- C₂₉H₄₀N₂O₃** (c) 83FAN/POE
 4-Propionyl-4'-*n*-tetradecanoyloxyazobenzene
Phase Changes
 c/liq 375.65 K, $\Delta H = 45898 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 122.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-smectic A.
Molecular Weight 464.6466
Wiswesser Line Notation 13VOR DNUNR DV2
Evaluation A
 Smectic A-isotropic liquid phase change data also given:
 413.65 K, $\Delta H = 8117 \text{ J}\cdot\text{mol}^{-1}$.

C₂₉H₆₀ (c) <i>n</i> -Nonacosane Phase Changes c,II/c,I 331.35 K, c,I/liq 336.55 K, Molecular Weight 408.7930 Wiswesser Line Notation 29H Evaluation B	55SCH/BUS $\Delta H = 29706 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 89.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 66107 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 196.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃₀H₄₂N₂O₃ (c) 4-Propionyl-4'- <i>n</i> -pentadecanoyloxyazobenzene Phase Changes c/liq 376.65 K, Solid-smectic A. Molecular Weight 478.6734 Wiswesser Line Notation 14VOR DNUNR DV2 Evaluation A Smectic A-isotropic liquid phase change data also given: 412.15 K, $\Delta H = 8452 \text{ J}\cdot\text{mol}^{-1}$; $\Delta S = \text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	83FAN/POE $\Delta H = 51505 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 136.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₃₀H₁₆N₄O₄)_n (c) Poly-(<i>p,p'</i> -diphenylenephthalido)-1,3,4-oxadiazole Heat Capacity 298.15 K, Temperature range 60 to 500 K. Entropy 298.15 K, Molecular Weight 496.4810 Wiswesser Line Notation T56 BHOVT&J BR D-CT5NN DOJ E* BR D- CT5NN DOJ ER D*/ Evaluation A	79KAR/SAP $C_p = 515.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 499.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃₀H₄₆ (c) 3,4-Dimethyl-3,4-bis(4- <i>tert</i> -butylphenyl)hexane Heat Capacity 298 K, One temperature. C_p given as $0.371 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$. Molecular Weight 406.6934 Wiswesser Line Notation 1XR DX2&2&X2&2&R DX Evaluation B	83KRA/BEC $C_p = 631.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
(C₃₀H₂₀N₄O₆)_n (c) Poly-(<i>p,p'</i> -diphenylenephthalido)hydrazide Heat Capacity 298.15 K, Temperature range 60 to 500 K. Entropy 298.15 K, Molecular Weight 532.5114 Wiswesser Line Notation /T56 BHOVT&J BR DVMMV R D* BR DVMMV*/ Evaluation A	79KAR/SAP $C_p = 583.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $S = 545.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃₀H₆₂ (c) <i>n</i> -Triacontane Phase Changes c,II/c,I 335.15 K c,I/liq 338.55 K Molecular Weight 422.8198 Wiswesser Line Notation 30H Evaluation B	55SCH/BUS
C₃₀H₂₂ (c) <i>p</i> -Quinquephenyl Phase Changes c/liq 659.6 K, Solid-nematic phase change. liq/liq 688.1 K, Nematic-isotropic phase change. Molecular Weight 382.5038 Wiswesser Line Notation RR DR DR DR Evaluation A	79SMI $\Delta H = 42300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 64.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 922 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 1.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃₀H₆₂ (c) <i>n</i> -Triacontane Phase Changes c,II/c,I 335.25 K, c,I/liq 338.65 K, Molecular Weight 422.8198 Wiswesser Line Notation 30H Evaluation B	73COM $\Delta H = 37489 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 111.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 68827 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 203.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃₀H₃₄O₄ (c) 4,4'-Diheptanoyloxydiphenyldiacetylene Phase Changes c,III/c,II 305 K c,II/c,I 318 K, c,II/c,II, c,II/c,I transitions combined. c,I/liq 402 K, Solid-nematic. Molecular Weight 458.5962 Wiswesser Line Notation 6VOR D1UU2UU1R DOV6 Evaluation A Nematic-isotropic liquid phase change data also given: 411 K, $\Delta H = 1170 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 2.845 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	84OZC/ASR $\Delta H = 18900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $\Delta H = 25500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 63.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	C₃₀H₆₂ (c) <i>n</i> -Triacontane Heat Capacity 300 K, Temperature range 300 to 500 K. $C_v = 1.30 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$. Molecular Weight 422.8198 Wiswesser Line Notation 30H Evaluation B	81HOE $C_p = 558 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		C₃₁H₄₄N₂O₃ (c) 4-Propionyl-4'- <i>n</i> -hexadecanoyloxyazobenzene Phase Changes c/liq 378.65 K, Solid-smectic A. Molecular Weight 492.7002 Wiswesser Line Notation 15VOR DNUNR DV2 Evaluation A Smectic A-isotropic liquid phase change data also given: 410.65 K, $\Delta H = 8619 \text{ J}\cdot\text{mol}^{-1}$; $\Delta S = 21.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.	83FAN/POE $\Delta H = 53011 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 140.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$

- C₃₁H₅₂O₃** (c) 88BAG/GUR
 α-Tocopherol acetate
 Heat Capacity 293.75 K, $C_p = 898 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 273 to 334 K.
 Unsmoothed experimental datum.
 Molecular Weight 472.7500
 Wiswesser Line Notation T66 BOT&J C3Y1&3Y1&3Y1&1
 C1 G1 HOV1 I1 J1
 Evaluation B
- (C₃₂H₂₀N₄)_n** (c) 74KAR/RAB
 Poly-[2,2'-(p-phenylene-1,1-diphenyl-5,5'-dibenzimidazole)]
 Heat Capacity 298.15 K, $C_p = 537.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 50 to 500 K.
 Entropy 298.15 K, $S = 469.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Molecular Weight 460.5370
 Wiswesser Line Notation /T56 BN DNJ CR D* H- HT56
 BN DNJ CR D*& DR/
 Evaluation A
- C₃₂H₂Ge** (c) 75LEB/MIL3
 1,1-Diethynyl-2,3,4,5-tetraphenyl-1-germacyclopentadiene
 Heat Capacity 298.15 K, $C_p = 556.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 62 to 309 K.
 Entropy 298.15 K, $S = 625.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Molecular Weight 479.1367
 Wiswesser Line Notation T5-GE- AHJ A1UU1 A1UU1 BR
 CR DR ER
 Evaluation B
- (C₃₂H₂Ge)_n** (gls) 75LEB/MIL3
 Poly-1,1-diethynyl-2,3,4,5-tetraphenyl-1-germacyclopentadiene
 Heat Capacity 298.15 K, $C_p = 489.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 62 to 307 K.
 Entropy 298.15 K, $S = 524.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Molecular Weight 479.1367
 Wiswesser Line Notation /T5-GE- BUTJ A1UU1 A1UU1
 BR* CR* DR ER/
 Evaluation B
- (C₃₂H₂₄N₄O₂)_n** (c) 74KAR/RAB
 Poly-[N-terphthalyl-bis-(N'-phenyl-o-diphenylamine)]
 Heat Capacity 298.15 K, $C_p = 612.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 50 to 500 K.
 Entropy 298.15 K, $S = 601.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Molecular Weight 496.5674
 Wiswesser Line Notation /*VMR BMR ER CMVR* DMR/
 Evaluation A
- C₃₂H₃₈Fe₃N₄O₁₃** (c) 85OH/KAM
 μ₃-Oxo-tris(pyridine)hexakis(acetato) iron(II) diiron pyridine
 Heat Capacity 300 K, $C_p = 930 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 300 K.
 Data given graphically.
 Value estimated from graph.
 Phase Changes
 c,V/c,IV 111.4 K
 c,IV/c,III 112.0 K
 c,III/c,II 185.8 K
 c,II/c,I 191.5 K
 Molecular Weight 854.2122
 Wiswesser Line Notation OV1 6 &T6NJ 3 &-FE- O &T6NJ
 Evaluation C
- C₃₂H₃₈Fe₃N₄O₁₃** (c) 86SOR/KAJ
 μ₃-Oxo-tris(pyridine)hexakis(acetato) iron(II)-diiron pyridine
 Heat Capacity 300 K, $C_p = 928.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 300 K.
 Phase Changes
 c,V/c,IV 111.4 K
 c,IV/c,III 112.0 K, $\Delta H = 503 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 4.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,V/c,IV and c,IV/c,III combined.
 c,III/c,II 185.8 K
 c,II/c,I 191.5 K, $\Delta H = 4440 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 26.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,III/c,II and c,II/c,I combined.
 Molecular Weight 854.2122
 Wiswesser Line Notation OV1 6 &T6NJ 3 &-FE- O &T6NJ
 Evaluation A
- C₃₂H₃₈O₄** (c) 84OZC/ASR
 4,4'-Dioctanoyloxydiphenyldiacetylene
 Phase Changes
 c,II/c,I 359 K, $\Delta H = 35400 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 98.70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 406 K, $\Delta H = 34000 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 83.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-nematic.
 Molecular Weight 486.6498
 Wiswesser Line Notation 7VOR D1UU2UU1R DOV7
 Evaluation A
 Nematic-isotropic liquid phase change data also given:
 412 K, $\Delta H = 21800 \text{ J}\cdot\text{mol}^{-1}$,
 $\Delta S = 5.272 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
- C₃₂H₃₉ClO₂** (c) 79LEW/ENE
 Northindrone-6-(4-chlorophenyl)-hexanoate
 Phase Changes
 c/liq 413 K, $\Delta H = 28800 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 69.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Molecular Weight 491.1119
 Wiswesser Line Notation L E5 B666 OV MUTJ E1
 F1UU1 FOV5R DG
 Evaluation A
- C₃₂H₄₆N₂O₃** (c) 83FAN/POE
 4-Propionyl-4'-n-heptadecanoyloxazobenzene
 Phase Changes
 c/liq 379.65 K, $\Delta H = 58743 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 154.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-smectic A.
 Molecular Weight 506.7270
 Wiswesser Line Notation 16VOR DNUNR DV2
 Evaluation A
 Smectic A-isotropic liquid phase change data also given:
 409.65 K, $\Delta H = 8703 \text{ J}\cdot\text{mol}^{-1}$,
 $\Delta S = 21.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
- C₃₂H₅₀** (c) 83KRA/BEC
 2,4,5,7-Tetramethyl-4,5-bis(4-tert-butylphenyl)octane
 Heat Capacity 298 K, $C_p = 683.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 One temperature.
 C_p given as $0.376 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
 Molecular Weight 434.7470
 Wiswesser Line Notation 1XR DX1Y&X1Y&R DX
 Evaluation B

C₃₂H₅₀ (c)	83KRA/BEC	C₃₃H₄₈N₂O₃ (c)	83FAN/POE
4,5-Diethyl-4,5-bis-(4- <i>tert</i> -butylphenyl)octane		4-Propionyl-4'- <i>n</i> -octadecanoyloxyazobenzene	
Heat Capacity 298 K,	$C_p = 618.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
One temperature.		c/liq	380.65 K, $\Delta H = 59622 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 156.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_p given as $0.340 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		Solid-smectic A.	
Molecular Weight 434.7470		Molecular Weight 520.7538	
Wiswesser Line Notation 1XR DX2&3&X2&3&R DX		Wiswesser Line Notation 17VOR DNUNR DV2	
Evaluation B		Evaluation A	
		Smectic A-isotropic liquid phase change data also given:	
		408.65 K,	$\Delta H = 8954 \text{ J}\cdot\text{mol}^{-1}$; $\Delta S = 21.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.
C₃₂H₆₆ (c)	73COM	C₃₃H₄₈O₂ (c)	79LEW/ENE
<i>n</i> -Dotriacontane		Northindrone <i>trans</i> -3-(4-butylcyclohexyl)propionate	
Phase Changes		Phase Changes	
c,II/c,I	338.65 K, $\Delta H = 41376 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 122.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c/liq	374 K, $\Delta H = 22500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 60.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq	343.45 K, $\Delta H = 76567 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 222.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 476.7410	
Molecular Weight 450.8734		Wiswesser Line Notation L E5 B666 OV MUTJ E1	
Wiswesser Line Notation 32H		F1UU1 FOV2- AL6TJ D4	
Evaluation B		Evaluation A	
C₃₂H₆₆ (c)	81HOE	(C₃₄H₁₈N₆O)_n (c)	84KAR/SHV
<i>n</i> -Dotriacontane		Polybenzimidazoloquinazole	
Heat Capacity 300 K,	$C_p = 806 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 298.15 K,	$C_p = 523.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 300 to 500 K.		Temperature range 60 to 600 K.	
Molecular Weight 450.8734	$C_v = 1.77 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.	Entropy 298.15 K,	$S = 453.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 32H		Molecular Weight 526.5560	
Evaluation B		Wiswesser Line Notation /T D6 C656 BN LNJ K* OO-	
		OT D6 C656 BN LNJ KR D*/	
C₃₃H₃₄O₂ (c)	79LEW/ENE	(C₃₄H₂₀N₄O)_n (c)	77KAR/RAB
Northindrone <i>trans</i> -4-hexylcyclohexylcarboxylate		Poly[2,2'-(1,4-phenylene)-7,7'-oxy-bis(3-phenylquinoxaline)]	
Phase Changes		Heat Capacity 300 K,	$C_p = 600 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c/liq	398 K, $\Delta H = 22600 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 56.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 100 to 700 K.	
Molecular Weight 462.6304		Data given graphically.	
Wiswesser Line Notation L E5 B666 OV MUTJ E1		Value estimated from graph.	
F1UU1 FOV- AL6TJ		Entropy 300 K,	$S = 449.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Molecular Weight 576.6558	
		Wiswesser Line Notation /T66 BN ENJ CR D* HO-	
C₃₃H₃₄O₂ (c)	79LEW/ENE	HT66 BN ENJ CR DR D*/	
Northindrone biphenyl-4-carboxylate		Evaluation C(C_p ,S); A(Phase changes)	
Phase Changes		$T(\text{glass}) = 556.0 \text{ K}$.	
c/liq	462 K, $\Delta H = 31600 \text{ J}\cdot\text{mol}^{-1}$	(C₃₄H₂₂N₆O₃)_n (c)	84KAR/SHV
Molecular Weight 462.6304		Bis-(<i>o</i> -aminophenyl)-2,2'-dibenzimidazole oxide,	
Wiswesser Line Notation L E5 B666 OV MUTJ E1		intermediate polymer	
F1UU1 FOVR DR		Heat Capacity 298.15 K,	$C_p = 699.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Temperature range 60 to 600 K.	
		Entropy 298.15 K,	$S = 594.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C₃₃H₄₀O₂ (c)	79LEW/ENE	Molecular Weight 562.5864	
Northindrone 4-cyclohexylbenzoate		Wiswesser Line Notation /*VR DVMR B- CT56 BM DNJ	
Phase Changes		HO- HT56 BM DNJ CR BM*/	
c/liq	482 K, $\Delta H = 36800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 65.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Evaluation B	
Molecular Weight 468.6778			
Wiswesser Line Notation L E5 B666 OV MUTJ E1			
F1UU1 FOVR D- AL6TJ			
Evaluation A			

C₃₄H₄₂O₄ (c)	84OZC/ASR	C₃₆H₄₆O₄ (c)	84OZC/ASR
4,4'-Dinonanoyloxydiphenyldiacetylene		4,4'-Didecanoyloxydiphenyldiacetylene	
Phase Changes		Phase Changes	
c,II/c,I 326 K,	$\Delta H = 19500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 59.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 308 K,	$\Delta H = 44900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 122.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 400 K,	$\Delta H = 33500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 83.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 403 K,	$\Delta H = 42200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Solid-nematic.		Solid-isotropic.	
Molecular Weight 514.7034		Molecular Weight 542.7570	
Wiswesser Line Notation 8VOR D1UU2UU1R DOV8		Wiswesser Line Notation 9VOR D1UU2UU1R DOV9	
Evaluation A		Evaluation A	
Nematic-isotropic liquid phase change data also given:			
401 K,	$\Delta H = 14600 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 3.640 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		
C₃₄H₅₄ (c)	83KRA/BEC	C₃₆H₇₄ (c)	55SCH/BUS
4,5-Dipropyl-4,5-bis(4- <i>tert</i> -butylphenyl)octane		<i>n</i> -Hexatriacontane	
Heat Capacity 298 K,	$C_p = 724.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Phase Changes	
One temperature.		c,III/c,II 345.25 K,	$\Delta H = 9916 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 28.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
C_p given as $0.374 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.		c,II/c,I 346.95 K,	$\Delta H = 30543 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 88.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 462.8006		c,I/liq 349.05 K,	$\Delta H = 88826 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 254.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 1XR DX3&3&X3&3&R DX		Molecular Weight 506.9806	
Evaluation B		Wiswesser Line Notation 36H	
		Evaluation B	
C₃₄H₇₀ (c)	73COM	C₃₆H₇₄ (c)	73COM
<i>n</i> -Tetraatriacontane		<i>n</i> -Hexatriacontane	
Phase Changes		Phase Changes	
c,III/c,II 342.25 K		c,III/c,II 345.35 K,	$\Delta H = 9916 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 28.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 342.65 K,	$\Delta H = 48032 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/c,I 347.05 K,	$\Delta H = 30543 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 88.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,I/liq 345.95 K,	$\Delta H = 79956 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 231.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 349.15 K,	$\Delta H = 130666 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 374.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 478.9270		Molecular Weight 506.9806	
Wiswesser Line Notation 34H		Wiswesser Line Notation 36H	
Evaluation B		Evaluation B	
C₃₆H₁₈ (c)	79FAR/SHA	C₃₆H₇₄ (c)	81HOE
Decacyclene; Diacenaphtho[1,2- <i>j</i> :1',2'- <i>l</i>]-fluoranthene		<i>n</i> -Hexatriacontane	
Phase Changes		Heat Capacity 300 K,	$C_p = 840 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 533 K		Temperature range 300 to 500 K.	$C_v = 1.64 \text{ J}\cdot\text{g}^{-1}\cdot\text{K}^{-1}$.
c/liq 562.0 K,	$\Delta H = 45200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 80.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Molecular Weight 506.9806	
Molecular Weight 450.5382		Wiswesser Line Notation 36H	
Wiswesser Line Notation L E6 E-6 D5 P6 P-6 O5		Evaluation B	
C6566 3AC-P- K&J			
Evaluation B			
C₃₆H₄₆Fe₃N₄O₁₃ (c)	87SOR/SHI	C₃₆H₈₀CdCl₄N₂ (c)	84WHI
Mixed valence iron oxo-centered complex with acetate and 3-methyl pyridine		Bis(Octadecylammonium) cadmium tetrachloride	
Heat Capacity 299.635 K,	$C_p = 1094.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Heat Capacity 300 K,	$C_p = 1010 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Temperature range 12 to 350 K.		Temperature range 10 to 370 K.	
Unsmoothed experimental datum.		Data given graphically.	
Phase Changes		Value estimated from graph.	
c,V/c,IV 181 K		Phase Changes	
c,IV/c,III 263.5 K		c,V/c,IV 349.6 K,	$\Delta H = 49500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 132 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,III/c,II 271.5 K		c,IV/c,III 356.0 K,	$\Delta H = 2300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 6.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
c,II/c,I 282.2 K		c,III/c,II 359.5 K,	$\Delta H = 3500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 910.3194		c,II/c,I 365.6 K,	$\Delta H = 34300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation -FE-3 O & T6NJ C1 3 & OV1 6 & T6NJ C1		Molecular Weight 795.2634	
Evaluation A		Wiswesser Line Notation 18ZH 2 .CD G4	
Cumulative enthalpy and entropy changes due to the four phase transitions were:		Evaluation C(C_p); A(Phase changes)	
	$\Delta H = 3410 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 13.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		

- C₃₈H₂₈B₂F₈FeN₈** (c) 87KUL/IYE
 Bis(1,10-phenanthroline-2-carbaldehyde phenylhydrazone) iron(II) ditetrafluoroborate
Phase Changes
 c,II/c,I 280.3 K, $\Delta H = 15600 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 55.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Spin-state transition.
Molecular Weight 826.1470
Wiswesser Line Notation T B666 CN NNØJ D1UNMR
 Ø-FE-- ØT B666 CN NNØJ D1UNMR &B-F4 2
Evaluation A
- C₃₈H₂₈Cl₂FeN₈O₈** (c) 87KUL/IYE
 Bis(1,10-phenanthroline-2-carbaldehyde phenylhydrazone) iron(II) diperchlorate
Phase Changes
 c,II/c,I 244.8 K, $\Delta H = 15800 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 64.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Spin-state transition.
Molecular Weight 851.4410
Wiswesser Line Notation T B666 CN NNØJ D1UNMR
 Ø-FE-- ØT B666 CN NNØJ D1UNMR &G-O4 2
Evaluation A
- C₃₈H₃₆O₄Si₄** (c) 82KUL
 1,1,3,3,5,5-Hexaphenyl-7,7-dimethylcyclotetrasiloxane
Heat Capacity 298.15 K, $C_p = 815.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 340 K.
Entropy 298.15 K, $S = 865.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 669.0420
Wiswesser Line Notation T8-SI-O-SI-O-SI-OJ AR AR
 C1 C1 ER ER GR GR
Evaluation A
- C₃₈H₅₀O₄** (c) 84OZC/ASR
 4,4'-Diundecanoyloxydiphenyldiacetylene
Phase Changes
 c,III/c,II 339 K, $\Delta H = 18100 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 53.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,II/c,I 359 K, $\Delta H = 7590 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 21.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 399 K, $\Delta H = 36200 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 90.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-isotropic.
Molecular Weight 570.8106
Wiswesser Line Notation 10OVR D1UU2UU1R DOV10
Evaluation A
- C₃₈H₆₂** (c) 83KRA/BEC
 5,6-Dibutyl-5,6-bis(4-*tert*-butylphenyl)decane
Heat Capacity 298 K, $C_p = 805.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 One temperature.
 C_p given as $0.371 \text{ cal}\cdot\text{K}^{-1}\cdot\text{g}^{-1}$.
Molecular Weight 518.9078
Wiswesser Line Notation 1XR DX4&4&X4&4&R DX
Evaluation B
- (C₃₈H₇₀O₈)_n** (liq) 75PHI/WAL
 Poly(hexamethylene sebacate)
Heat Capacity 328.15 K, $C_p = 1290 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 328.15 to 408.15 K.
Phase Changes
 c/liq 306 K
Molecular Weight 654.9662
Wiswesser Line Notation 60V8VO6VO8VO6
Evaluation B
- C₃₉H₃₀N₆** (c) 84LEB/BYK
 Hexaphenylisomelamine
Heat Capacity 298.15 K, $C_p = 672.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 8 to 330 K.
Entropy 298.15 K, $S = 706.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 582.7062
Wiswesser Line Notation T6NYNYNYJ AR BUNR CR DUNR
 ER FUNR
Evaluation A
- C₃₉H₃₀N₆** (c) 84LEB/BYK
 Hexaphenylmelamine
Heat Capacity 298.15 K, $C_p = 665.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 10 to 330 K.
Entropy 298.15 K, $S = 673.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 582.7062
Wiswesser Line Notation T6N CN ENJ BNR&R
 DNR&R FNR&R
Evaluation A
- C₄₀H₅₄O₄** (c) 84OZC/ASR
 4,4'-Didodecanoyloxydiphenyldiacetylene
Phase Changes
 c,II/c,I 374 K, $\Delta H = 50200 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 134.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 401 K, $\Delta H = 44000 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 109.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-isotropic.
Molecular Weight 598.8642
Wiswesser Line Notation 11OVR D1UU2UU1R DOV11
Evaluation A
- C₄₁H₇₂O₂** (c) 86KIS/IWA
 Cholesteryl myristate
Phase Changes
 c,I/liq 344.6 K, $\Delta H = 47100 \text{ J}\cdot\text{mol}^{-1}$
 Solid-smectic transition.
 liq/liq 353.0 K, $\Delta H = 1600 \text{ J}\cdot\text{mol}^{-1}$
 Smectic-cholesteric.
 liq/liq 358.3 K, $\Delta H = 1100 \text{ J}\cdot\text{mol}^{-1}$
 Cholesteric-isotropic.
Molecular Weight 597.0186
Wiswesser Line Notation L E5 B666 LUTJ A1
 E1FY1&3Y1&1 OV13
Evaluation A
- C₄₂H₆₆O₁₂** (c) 79SOR/TSU
 Benzene-hexa-*n*-hexanoate
Heat Capacity 300 K, $C_p = 1300 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 13 to 393 K.
 Data given graphically.
 C_p value is a graphical estimate.
Phase Changes
 c,IV/c,III 251.58 K, $\Delta H = 25660 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 102.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,III/c,II 291.46 K, $\Delta H = 12270 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 46.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,II/c,I 348.27 K, $\Delta H = 16260 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 46.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 c,I/liq 368.74 K, $\Delta H = 33500 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 90.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 762.9762
Wiswesser Line Notation 5OVR BVO5 CVO5 DVO5
 EVO5 FVO5
Evaluation B(C_p); A(Phase changes)

<p>C₄₂H₇₀O₃₅·11H₂O (c) 87HAN/MAT β-Cyclodextrin undecahydrate; Cycloheptaamylose undecahydrate Heat Capacity 299.53 K, $C_p = 2093 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 13 to 300 K. Unsmoothed experimental datum. Phase Changes c,II/c,I 226 K, $\Delta S = 45.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 1333.1612 Wiswesser Line Notation /T5OTJ B* CQ DQ EO* F1Q/ 7 Evaluation A <i>T</i>(glass) = 150 K.</p>	<p>C₄₅H₇₈O₂ (c) 86KIS/IWA Cholesteryl oleate Phase Changes c,I/liq 321.1 K, $\Delta H = 2900 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 9.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid₁-isotropic. Solid₂-isotropic also given: 317.4 K, $\Delta H = 2700 \text{ J}\cdot\text{mol}^{-1}$; $\Delta S = 8.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$. liq/liq 315.9 K, $\Delta H = 1300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Smectic-cholesteric. liq/liq 321.0 K, $\Delta H = 840 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$</p>
<p>C₄₂H₇₂O₁₂ (c) 84KOH/PRA Hexa-O-hexanoyl-scylo-inositol Phase Changes c/liq 341.6 K, $\Delta H = 21150 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 61.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-discotic. liq/liq 472.6 K, $\Delta H = 8840 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 18.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Discotic-isotropic. Molecular Weight 769.0236 Wiswesser Line Notation L6TJ AOV5 BOV5 COV5 DOV5 EOVS FOVS Evaluation A</p>	<p>C₄₅H₈₀O₂ (c) 86KIS/IWA Cholesteryl stearate Phase Changes c,I/liq 355.4 K, $\Delta H = 67500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 189.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-isotropic. liq/liq 349.0 K, $\Delta H = 1800 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 5.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Smectic-cholesteric. liq/liq 353.0 K, $\Delta H = 1700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Cholesteric-isotropic. Molecular Weight 653.1258 Wiswesser Line Notation L E5 B666 LUTJ A1 E1FY1&3Y1&1 OV17 Evaluation A</p>
<p>C₄₃H₂₆N₈P (c) 70KOS/IID Methyltriphenylphosphonium-bis(7,7,8,8-tetracyanoquinodimethanide) Heat Capacity 300 K, $C_p = 858 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 5 to 350 K. Data given graphically only. Value estimated from graph. Molecular Weight 685.7058 Wiswesser Line Notation L6Y DYJ AYCNCN DYCN&CN 2 &1PR&R&R Evaluation C</p>	<p>C₄₈H₄₀O₄Si₄ (c) 82KUL Octaphenylcyclotetrasiloxane Heat Capacity 298.15 K, $C_p = 932.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 12 to 300 K. Entropy 298.15 K, $S = 1044 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Molecular Weight 793.1836 Wiswesser Line Notation T8SIOSIOSIOSIOJ AR AR CR CR ER ER GR GR Evaluation A</p>
<p>C₄₃H₇₆O₂ (c) 86KIS/IWA Cholesteryl palmitate Phase Changes c,I/liq 350.4 K, $\Delta H = 56200 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 160.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-smectic transition. liq/liq 349.9 K, $\Delta H = 1700 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 4.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Smectic-cholesteric. liq/liq 355.0 K, $\Delta H = 1300 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 3.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Cholesteric-isotropic. Molecular Weight 625.0722 Wiswesser Line Notation L E5 B666 LUTJ A1 E1FY1&3Y1&1 OV15 Evaluation A</p>	<p>C₄₈H₇₆O₁₂ (c) 79SOR/TSU Benzene-hexa-<i>n</i>-heptanoate Heat Capacity 300 K, $C_p = 1500 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Temperature range 13 to 393 K. Data given graphically. <i>C_p</i> value is a graphical estimate. Phase Changes c,IV/c,III 129 K, $\Delta H = 1120 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 8.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ c,III/c,II 222.80 K c,II/c,I 230.81 K, $\Delta H = 11500 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 50.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Combination of transition c,III/c,II and c,II/c,I. c,I/liq 353.79 K, $\Delta H = 32210 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 91.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ Solid-mesophase. Molecular Weight 847.1370 Wiswesser Line Notation 6OVR BVO6 CVO6 DVO6 EVO6 FVO6 Evaluation A(Phase changes), B(<i>C_p</i>) Mesophase-liquid phase transition data also given: 359.28 K, $\Delta H = 21540 \text{ J}\cdot\text{mol}^{-1}$, $\Delta S = 59.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.</p>

C₅₄H₉₀O₁₂ (c)	82SOR/YOS	C₆₆H₉₆O₁₂ (c)	86HEC/KAJ
Benzene hexa- <i>n</i> -octanoate		2,3,6,7,10,11-Hexa- <i>n</i> -octanoyloxy triphenylene	
Heat Capacity 298.15 K,	$C_p = 2131.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(Solid I)	
Temperature range 13 to 393 K.		Heat Capacity 298.651 K,	$C_p = 2016.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Entropy 298.15 K,	$S = 1514.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 12 to 425 K.	
Phase Changes		Unsmoothed experimental datum.	
c,II/c,I 301.89 K,	$\Delta H = 48960 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 164.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,I/liq 362.6 K,	$\Delta H = 24210 \text{ J}\cdot\text{mol}^{-1}$
c,I/liq 355.10 K,	$\Delta H = 46070 \text{ J}\cdot\text{mol}^{-1}$		$\Delta S = 66.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 129.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Crystal/discotic.	
Solid-columnar mesophase.		liq/liq 402.16 K,	$\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 931.2978			$\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 7VOR BOV7 COV7 DOV7		Discotic/Isotropic liquid.	
EOV7 FOV7		Molecular Weight 1081.4772	
Evaluation A		Wiswesser Line Notation L B6 H666J COV8 DOV8	
Columnar mesophase-isotropic liquid phase		IOV8 JOV8 OOV8 POV8	
change data also given:		Evaluation A	
357.09 K,	$\Delta H = 19220 \text{ J}\cdot\text{mol}^{-1}$,		
	$\Delta S = 53.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		
C₅₄H₉₆O₁₂ (c)	84KOH/PRA	C₆₆H₉₆O₁₂ (c)	86HEC/KAJ
Hexa-O-octanoyl-scylo-inositol		2,3,6,7,10,11-Hexa- <i>n</i> -octanoyloxy triphenylene	
Phase Changes		(Solid II)	
c/liq 348.6 K,	$\Delta H = 43330 \text{ J}\cdot\text{mol}^{-1}$	Heat Capacity 299.036 K,	$C_p = 2082.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	$\Delta S = 124.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	Temperature range 12 to 425 K.	
Solid-discotic.		Unsmoothed experimental datum.	
liq/liq 471.6 K,	$\Delta H = 9470 \text{ J}\cdot\text{mol}^{-1}$	Phase Changes	
	$\Delta S = 20.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	c,II/liq 359.7 K,	$\Delta H = 25440 \text{ J}\cdot\text{mol}^{-1}$
Discotic-isotropic.			$\Delta S = 71.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Molecular Weight 937.3452		Crystal/discotic.	
Wiswesser Line Notation H6TJ AOV7 BOV7 COV7		liq/liq 402.16 K,	$\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
DOV7 EOV7 FOV7			$\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Evaluation A		Discotic/isotropic liquid.	
		Molecular Weight 1081.4772	
		Wiswesser Line Notation L B6 H666J COV8 DOV8	
		IOV8 JOV8 OOV8 POV8	
		Evaluation A	
C₅₄H₉₈O₁₂ (liq)	75PHI/WAL	C₆₆H₉₆O₁₂ (c)	86HEC/KAJ
Poly(hexamethylene sebacate)		2,3,6,7,10,11-Hexa- <i>n</i> -octanoyloxy triphenylene	
Heat Capacity 333.15 K,	$C_p = 1850 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	(Solid III)	
Temperature range 333.15 to 433.15 K.		Heat Capacity 298.428 K,	$C_p = 1956.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Phase Changes		Temperature range 12 to 425 K.	
c/liq 322 K		Unsmoothed experimental datum.	
Molecular Weight 939.3610		Phase Changes	
Wiswesser Line Notation 6OV8VO6VO8VO6VO8VO6		c,III/c,I 290 K,	$\Delta H = 15320 \text{ J}\cdot\text{mol}^{-1}$
Evaluation B			$\Delta S = 52.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Expected phase transition, but not observed.	
		c,III/liq 348 K,	$\Delta H = 34770 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 99.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Crystal/discotic.	
		liq/liq 402.16 K,	$\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Discotic/isotropic liquid.	
		Molecular Weight 1081.4772	
		Wiswesser Line Notation L B6 H666J COV8 DOV8	
		IOV8 JOV8 OOV8 POV8	
		Evaluation A	
C₅₄H₁₀₄O₆ (c)	84SIM/HOC	C₆₆H₉₆O₁₂ (c)	86HEC/KAJ
Trimargarin; Glyceryl trimargarate		2,3,6,7,10,11-Hexa- <i>n</i> -octanoyloxy triphenylene	
Heat Capacity 300 K		(Solid III)	
Temperature range 190 to 350 K.		Heat Capacity 298.428 K,	$C_p = 1956.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat capacity given for the following solid state phases:		Temperature range 12 to 425 K.	
($\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$); β (mp, 338 K) = 1393;		Unsmoothed experimental datum.	
β_1' (mp, 335 K) = 1518; β_2' (mp, 333 K) = 1621;		Phase Changes	
α (mp, 323 K) = 1759.		c,III/c,I 290 K,	$\Delta H = 15320 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 849.4120			$\Delta S = 52.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 16VO1YOY16&10V16		Expected phase transition, but not observed.	
Evaluation B		c,III/liq 348 K,	$\Delta H = 34770 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 99.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Crystal/discotic.	
		liq/liq 402.16 K,	$\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Discotic/isotropic liquid.	
		Molecular Weight 1081.4772	
		Wiswesser Line Notation L B6 H666J COV8 DOV8	
		IOV8 JOV8 OOV8 POV8	
		Evaluation A	
C₅₇H₁₁₀O₆ (c)	84SIM/HOC	C₆₆H₉₆O₁₂ (c)	86HEC/KAJ
Tristearin; Glyceryl tristearate		2,3,6,7,10,11-Hexa- <i>n</i> -octanoyloxy triphenylene	
Heat Capacity 300 K		(Solid III)	
Temperature range 190 to 350 K.		Heat Capacity 298.428 K,	$C_p = 1956.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Heat capacity given for the following solid state phases:		Temperature range 12 to 425 K.	
($\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$); β (mp, 345 K) = 1436;		Unsmoothed experimental datum.	
β_1' (mp, 337 K) = 1544; β_2' (mp, 334 K) = 1615;		Phase Changes	
α (mp, 328 K) = 1846.		c,III/c,I 290 K,	$\Delta H = 15320 \text{ J}\cdot\text{mol}^{-1}$
Molecular Weight 891.4924			$\Delta S = 52.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
Wiswesser Line Notation 17VO1YOY17&10V17		Expected phase transition, but not observed.	
Evaluation B		c,III/liq 348 K,	$\Delta H = 34770 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 99.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Crystal/discotic.	
		liq/liq 402.16 K,	$\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
			$\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
		Discotic/isotropic liquid.	
		Molecular Weight 1081.4772	
		Wiswesser Line Notation L B6 H666J COV8 DOV8	
		IOV8 JOV8 OOV8 POV8	
		Evaluation A	

- C₆₆H₉₆O₁₂** (c) 86VAN/KAJ
 2,3,6,7,10,11-Hexa-*n*-octanoyloxy triphenylene
Heat Capacity 298.651 K, $C_p = 2016.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 365 K.
 Unsmoothed experimental datum for "Solid-I".
Phase Changes
 c/liq 362.6 K, $\Delta H = 24210 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 66.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid I—discotic.
Molecular Weight 1081.4772
Wiswesser Line Notation L B6 H666J EO77 FOV7
 KOV7 LOV7 QOV7 ROV7
Evaluation A
- C₆₆H₉₆O₁₂** (c) 86VAN/KAJ
 2,3,6,7,10,11-Hexa-*n*-octanoyloxy triphenylene
Heat Capacity 299.036 K, $C_p = 2082.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 425 K.
 Unsmoothed experimental datum for "solid-II".
Phase Changes
 liq/liq 402.16 K, $\Delta H = 3626 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Discotic— isotropic.
 c/liq 359.7 K, $\Delta H = 25440 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 71.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid II—discotic.
Molecular Weight 1081.4772
Wiswesser Line Notation L B6 H666J EO77 FOV7
 KOV7 LOV7 QOV7 ROV7
Evaluation A
- C₆₆H₉₆O₁₂** (c) 86VAN/KAJ
 2,3,6,7,10,11-Hexa-*n*-octanoyloxy triphenylene
Heat Capacity 298.428 K, $C_p = 1956.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 348 K.
 Unsmoothed experimental datum for "Solid-III".
Phase Changes
 c/liq 348 K, $\Delta H = 34770 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 9.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid III—discotic.
Molecular Weight 1081.4772
Wiswesser Line Notation L B6 H666J EO77 FOV7
 KOV7 LOV7 QOV7 ROV7
Evaluation A
- C₆₆H₁₂₀O₁₂** (c) 84KOH/PRA
 Hexa-O-decanoyl-scylo-inositol
Phase Changes
 c/liq 357.1 K, $\Delta H = 53070 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 148.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Solid-discotic.
 liq/liq 461.8 K, $\Delta H = 10280 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 22.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Discotic-isotropic.
Molecular Weight 1105.6668
Wiswesser Line Notation L6TJ AOV9 BOV9 COV9
 DOV9 EO9 FOV9
Evaluation A
- C₂₀₃H₂₈₈O₁₄** (c) 87AWA/SUG
 Galvinoxyl hydrogalvinoxyl (6:1) radical
Heat Capacity 299.62 K, $C_p = 634.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 12 to 303 K.
 Unsmoothed experimental datum.
Molecular Weight 2952.4998
Wiswesser Line Notation
Evaluation A
- C₂₉₀H₄₁₁O₂₀** (c) 87AWA/SUG
 Galvinoxyl hydrogalvinoxyl (9:1) radical
Heat Capacity 298.45 K, $C_p = 631.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Temperature range 13 to 300 K.
 Unsmoothed experimental datum.
Phase Changes
 c,II/c,I 71 K, $\Delta H = 718 \text{ J}\cdot\text{mol}^{-1}$
 $\Delta S = 10.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
 Diamagnetic low temperature- paramagnetic
 high temperature phase transition in 9:1 crystal.
Molecular Weight 4217.4249
Wiswesser Line Notation
Evaluation A

8. Compound Name — Formula Index

A			
Acenaphthene picric acid	C ₁₈ H ₁₁ N ₃ O ₇	9,10- <i>o</i> -Benzeno-9,10-dihydroanthracene	C ₂₀ H ₁₄
Acetamide	C ₂ H ₅ NO	1,2-Benzfluorene picric acid	C ₂₃ H ₁₅ N ₃ O ₇
Acetanilide	C ₈ H ₉ NO	2,3-Benzfluorene picric acid	C ₂₃ H ₁₅ N ₃ O ₇
Acetic acid	C ₂ H ₄ O ₂	Benzil	C ₁₄ H ₁₀ O ₂
Acetonitrile	C ₂ H ₃ N	Benzimidazole	C ₇ H ₆ N ₂
Acetophenone diethyl ketal	C ₁₂ H ₁₈ O ₂	1,2-Benzofluorene	C ₁₇ H ₁₂
Acetylacetone, enol form	C ₅ H ₈ O ₂	2,3-Benzofluorene	C ₁₇ H ₁₂
Acridine	C ₁₃ H ₉ N	2,3-Benzofuran	C ₈ H ₆ O
Acrylic acid	C ₃ H ₄ O ₂	Benzoic acid	C ₇ H ₆ O ₂
1-Adamantyl carboxamide	C ₁₁ H ₁₇ NO	Benzonitrile	C ₇ H ₅ N
5-Allylguaiacol	C ₁₀ H ₁₂ O ₂	Benzophenone	C ₁₃ H ₁₀ O
N-Allyl-N'-phenylthiourea	C ₁₀ H ₁₂ N ₂ S	Benzo[a]pyrene picric acid	C ₂₆ H ₁₅ N ₃ O ₇
Aluminum acetylacetonate	C ₁₅ H ₂₁ AlO ₆	1-Benzo[b]pyrrole	C ₈ H ₇ N
2-Aminobutanoic acid (L)	C ₄ H ₉ NO ₂	7,8-Benzoquinoline	C ₁₃ H ₉ N
4-Aminobutanoic acid	C ₄ H ₉ NO ₂	Benzotriazole	C ₆ H ₅ N ₃
α -Aminobutyric acid (L)	C ₄ H ₉ NO ₂	Benzotrichloride	C ₇ H ₅ Cl ₃
τ -Aminobutyric acid	C ₄ H ₉ NO ₂	N-Benzoyl- <i>o</i> -aminodiphenylamine	C ₁₉ H ₁₆ N ₂ O
α -Aminocaproic acid (DL)	C ₆ H ₁₃ NO ₂	Beryllium oxyacetate	C ₁₂ H ₁₈ BeO ₁₃
α -Aminocaproic acid (L)	C ₆ H ₁₃ NO ₂	Bicyclohexyl	C ₁₂ H ₂₂
N-(2-Aminoethyl)piperazine	C ₆ H ₁₅ N ₃	Bicyclo[2.2.1]heptene	C ₇ H ₁₀
N,N'-Di-(2-aminoethyl) piperazine	C ₈ H ₂₀ N ₄	Bicyclo[2.2.1]heptane	C ₇ H ₁₂
N-[(2-Aminoethyl)2-aminoethyl] piperazine	C ₈ H ₂₀ N ₄	Bicyclo[2.2.1]hept-2,5-diene	C ₇ H ₈
N-(2-Aminoethyl)-N'-[(2-aminoethyl) 2-aminoethyl] piperazine	C ₁₀ H ₂₅ N ₅	Bicyclo[3.3.3]undecane	C ₁₁ H ₂₀
6-Aminohexanoic acid	C ₆ H ₁₃ NO ₂	Biferrocenium triiodide	C ₂₀ H ₁₆ Fe ₂ I ₃
2-Amino-4-methylpentanoic acid (L)	C ₆ H ₁₃ NO ₂	2,2'-Biindanyl	C ₁₈ H ₁₈
8-Aminooctanoic acid	C ₈ H ₁₇ NO ₂	β , β '-Binaphthyl picric acid	C ₂₆ H ₁₇ N ₃ O ₇
1-Aminopentane	C ₅ H ₁₃ N	β , β '-Binaphthyl	C ₂₀ H ₁₄
5-Aminopentanoic acid	C ₅ H ₁₁ NO ₂	<i>p,p'</i> -Biphenol	C ₁₂ H ₁₀ O ₂
3-Aminopropanoic acid	C ₃ H ₇ NO ₂	Biphenyl	C ₁₂ H ₁₀
α -Aminovaleric acid (L)	C ₅ H ₁₁ NO ₂	Biphenyl- <i>d</i> ₁₀	C ₁₂ D ₁₀
Ammonium hydrogen oxalate hemihydrate	C ₂ H ₅ O ₄ N·0.5H ₂ O	Bis-(<i>o</i> -aminophenyl)-2,2'-dibenzimidazole oxide	C ₂₆ H ₂₀ N ₆ O
Ammonium hydrogen oxalate hemihydrate- <i>d</i> ₆	C ₂ D ₅ O ₄ N·0.5D ₂ O	Bis-(<i>o</i> -aminophenyl)-2,2'-dibenzimidazole oxide, intermediate polymer	(C ₃₄ H ₂₂ N ₆ O ₃) _n
Ammonium tetraphenyl boron	C ₂₄ H ₂₄ BN	Bis(4-aminophenyl)methane	C ₁₃ H ₁₄ N ₂
<i>n</i> -Amyl alcohol	C ₅ H ₁₂ O	Bis(benzene)chromium	C ₁₂ H ₁₀ Cr
<i>n</i> -Amylamine	C ₅ H ₁₃ N	Bis(benzene)chromium bromide	C ₁₂ H ₁₂ CrBr
Amyl butyrate	C ₉ H ₁₈ O ₂	Bis(benzene)chromium chloride	C ₁₂ H ₁₂ CrCl
Amyl propionate	C ₈ H ₁₆ O ₂	Bis(benzene)chromium iodide	C ₁₂ H ₁₂ CrI
Aniline	C ₆ H ₇ N	Bis(biphenyl)chromium iodide	C ₂₄ H ₂₀ CrI
Aniline formaldehyde	C ₇ H ₉ NO	2,2-Bis(4-cyanatophenyl)propane	C ₁₇ H ₁₄ N ₂
Aniline hydrobromide	C ₆ H ₈ BrN	Bis(diisopropylbenzene)chromium iodide	C ₁₈ H ₂₄ CrI
<i>p</i> -Anisidine	C ₇ H ₉ NO	Bis(N,N-Dimethyldithiocarbamato) iron (III) bromide	C ₆ H ₁₂ BrFeN ₂ S ₂
Anisole	C ₇ H ₈ O	Bis(ethylbenzene)chromium iodide	C ₁₆ H ₂₀ CrI
Anthracene-1,2,4,5-tetrachloro-3-nitrobenzene	C ₂₀ H ₁₁ Cl ₄ NO ₂	Bis(2-ethylhexyl)azolate	C ₂₅ H ₄₈ O ₄
Anthracene picric acid	C ₂₀ H ₁₃ N ₃ O ₇	Bis(2-ethylhexyl)nonadioate	C ₂₅ H ₄₈ O ₄
AnthraceneTCNB	C ₂₀ H ₁₁ Cl ₄ NO ₂	Bis(2-ethylhexyl)phthalate	C ₂₄ H ₃₈ O ₄
Arabinose(D)	C ₅ H ₁₀ O ₅	Bis(<i>n</i> -heptylammonium)tetrachlorocadmate	C ₁₄ H ₃₆ N ₂ CdCl ₄
Arabinose(L)	C ₅ H ₁₀ O ₅	Bis(<i>n</i> -heptylammonium)tetrachloromanganate	C ₁₄ H ₃₆ N ₂ MnCl ₄
Azacymantrene	C ₇ H ₄ MnNO ₃	Bis-hydroxyethylpiperazine	C ₈ H ₁₈ N ₂ O ₂
Azaferrocene	C ₉ H ₉ FeN	2,2-Bis(hydroxymethyl)-1,3-dihydroxypropane	C ₃ H ₁₂ O ₄
Azobenzene	C ₁₂ H ₁₀ N ₂	1,3-Bis-(1-isocyanato-1-methylethyl)-benzene	C ₁₄ H ₁₆ N ₂ O ₂
<i>trans</i> -Azobenzene	C ₁₂ H ₁₀ N ₂	1,4-Bis-(1-isocyanato-1-methylethyl)-benzene	C ₁₄ H ₁₆ N ₂ O ₂
2,2-Azodiisobutyrodinitrile	C ₈ H ₁₂ N ₄	Bis(mesitylene)chromium iodide	C ₁₈ H ₂₄ CrI
<i>p</i> -Azoxyanisole	C ₁₄ H ₁₄ N ₂ O ₃	Bis[N-(3-methoxysalicylidene)isopropylamine] nickel(II)	C ₂₂ H ₂₈ N ₂ O ₄ Ni
		Bis(methylammonium) hexabromotellurate	C ₂ H ₁₂ Br ₆ N ₂ Te
		Bis(methylammonium) hexaiodotellurate	C ₂ H ₁₂ I ₆ N ₂ Te
		Bis(methylammonium- <i>d</i> ₆)hexachlorostannate (IV)	C ₂ D ₁₂ Cl ₆ N ₂ Sn

B

Bis(nitrato)(1,4,8,11-tetraazacyclo- tetradecane) copper (II)	$C_{10}H_{24}CuN_6O_6$	Butyl urea	$C_5H_{12}N_2O$
Bis-pentylammonium tetrachloro zincate	$C_{10}H_{28}Cl_4N_2Zn$	<i>tert</i> -Butyl urea	$C_5H_{12}N_2O$
Bis(1,10-phenanthroline-2-carbaldehyde phenylhydrazone) iron(II)		<i>tert</i> -Butylaldehyde	$C_5H_{10}O$
ditetrafluoroborate	$C_{38}H_{28}B_2F_8FeN_8$	1,4-Butylene glycol-ethylene glycol- adipic acid oligomer	$C_{12}H_{22}O_6$
Bis(1,10-phenanthroline-2-carbaldehyde phenylhydrazone) iron(II)		Butylglycol	$C_6H_{14}O_2$
diperchlorate	$C_{38}H_{28}Cl_2FeN_8O_8$	<i>n</i> -Butyrolactone	$C_4H_6O_2$
2,2-Bis(phenyl-4-glycidioxy)propane	$C_{21}H_{24}O_4$		
1,4-Bis(phenylglyoxaloyl)benzene	$C_{22}H_{14}O_4$		
Bis(tetradecylammonium)zinc tetrachloride	$C_{28}H_{32}Cl_4N_2Zn$		
Bis(tetraethylammonium) decahydro- decaborate	$C_{16}H_{50}B_{10}N_2$		
Bis(tetraethylammonium) dodeca- hydrododecaborate	$C_{16}H_{52}B_{12}N_2$		
Bis(tetramethylammonium iodide) trideca-silver iodide	$C_8H_{24}Ag_{13}I_{15}N_2$		
Bis(toluene)chromium iodide	$C_{14}H_{16}CrI$		
<i>o,o'</i> -Bis-trichlorosilylbiphenyl	$C_{12}H_8Cl_4Si_2$		
1,3-Bis(trimethylsilyl)propane	$C_9H_{24}Si_2$		
Bis(<i>m</i> -xylene)chromium iodide	$C_{16}H_{20}CrI$		
2,2'-Bitetralin	$C_{20}H_{22}$		
Bromo bis(<i>N,N</i> -diethylthio- carbamate)iron (III)	$C_{10}H_{20}BrFeN_2S_4$		
Bromobenzene	C_6H_5Br		
2-Bromobenzoic acid	$C_7H_5BrO_2$		
3-Bromobenzoic acid	$C_7H_5BrO_2$		
4-Bromobenzoic acid	$C_7H_5BrO_2$		
1-Bromo-2-chloro-1,1,2- trifluoroethane	$C_2HBrClF_3$		
2-Bromo-2-chloro-1,1,1- trifluoroethane	$C_2HBrClF_3$		
Bromoform	$CHBr_3$		
2-Bromiodobenzene	C_6H_4BrI		
3-Bromiodobenzene	C_6H_4BrI		
4-Bromiodobenzene	C_6H_4BrI		
4-Bromophenol	C_6H_5BrO		
Bromotrifluoromethane	CF_3Br		
Bullvalene	$C_{10}H_{10}$		
Butadiene-propylene copolymer	$(C_7H_{12})_n$		
1,4-Butanedinitrile	$C_4H_4N_2$		
1,4-Butanedioic acid	$C_6H_{10}O_4$		
1,4-Butanediol	$C_4H_{10}O_2$		
1-Butanethiol	$C_4H_{10}S$		
1-Butanol	$C_4H_{10}O$		
2-Butanol	$C_4H_{10}O$		
<i>tert</i> -Butanol	$C_4H_{10}O$		
Butanone	C_4H_8O		
2-Butenal	C_4H_6O		
1-Butene	C_4H_8		
<i>cis</i> -2-Butene	C_4H_8		
<i>trans</i> -2-Butene	C_4H_8		
2- <i>n</i> -Butoxy-1-ethanol	$C_6H_{14}O_2$		
2-(2-Butoxyethoxy)ethanol	$C_8H_{18}O_3$		
<i>n</i> -Butyl acetate	$C_6H_{12}O_2$		
Butyl acrylate	$C_7H_{12}O_2$		
<i>n</i> -Butyl alcohol	$C_4H_{10}O$		
<i>sec</i> -Butyl alcohol	$C_4H_{10}O$		
<i>tert</i> -Butyl alcohol	$C_4H_{10}O$		
Butyl butanoate	$C_8H_{16}O_2$		
<i>n</i> -Butyl chloride	C_4H_9Cl		
<i>n</i> -Butyl ethanoate	$C_6H_{12}O_2$		
<i>n</i> -Butyl mercaptan	$C_4H_{10}S$		
Butyl methacrylate	$C_8H_{14}O_2$		
<i>n</i> -Butyl methanoate	$C_5H_{10}O_2$		
Butyl octadecanoate	$C_{12}H_{24}O_2$		
Butyl pentanoic acid	$C_9H_{18}O_2$		
		Caffeine	$C_8H_{10}N_4O_2$
		Calcium oxalate mono-hydrate	$C_2CaO_4 \cdot H_2O$
		Cane sugar	$C_{12}H_{22}O_{11}$
		Capraldehyde	$C_{10}H_{20}O$
		Capric acid	$C_{10}H_{20}O_2$
		Capric aldehyde	$C_{10}H_{20}O$
		ϵ -Caprolactone	$C_6H_{10}O_2$
		Capryl alcohol	$C_8H_{18}O$
		Caprylaldehyde	$C_8H_{16}O$
		4-Carbomethoxyhomocubane	$C_{11}H_{12}O_2$
		Carbon	C
		Carbon, diamond	C
		Carbon, graphite	C
		Carbon tetrabromide	CBr_4
		Carbon tetrachloride	CCl_4
		Carbon tetrafluoride	CF_4
		Carbopropoxy methyl methacrylate	$C_9H_{14}O_2$
		1,7-Carborane-12	$C_2H_{12}B_{10}$
		<i>m</i> -Carborane	$C_2H_{12}B_{10}$
		4-Carboxypentacyclo- [4.3.0.0 ^{2,5} .0 ^{3,8} .0 ^{4,7}]nonane	$C_{10}H_{10}O_2$
		Castor oil	$C_{18}H_{34}O_3$
		Catechol	$C_6H_6O_2$
		Cellulose nitrate	$(C_6H_8N_2O_9)_n$
		Cerium(III) oxalate	$C_6O_{12}Ce_2$
		<i>n</i> -Cetyl alcohol	$C_{16}H_{34}O$
		Cetane	$C_{16}H_{34}$
		2-Chloro-1-(trichloromethyl)pyridine	$C_6H_3Cl_4N$
		Chloroacetic acid	$C_2H_3ClO_2$
		2-Chloroadamantane	$C_{10}H_{15}Cl$
		Chlorobenzene	C_6H_5Cl
		<i>p</i> -Chlorobiphenyl	$C_{12}H_9Cl$
		Chlorobis(<i>N,N</i> -dimethylthio- carbamate)iron(III)	$C_6H_{12}ClFeN_2S_4$
		2-Chlorobromobenzene	C_6H_4BrCl
		3-Chlorobromobenzene	C_6H_4BrCl
		4-Chlorobromobenzene	C_6H_4BrCl
		1-Chlorobutane	C_4H_9Cl
		Chloroethyl methacrylate	$C_6H_9ClO_2$
		Chloroform	$CHCl_3$
		2-Chloroisnitrosoacetanilide	$C_8H_7ClN_2O_2$
		1-Chloronaphthalene	$C_{10}H_7Cl$
		2-Chloronaphthalene	$C_{10}H_7Cl$
		1,2-Chloronitrobenzene	$C_6H_4ClNO_2$
		2-Chlorophenol	C_6H_5ClO
		3-Chlorophenol	C_6H_5ClO
		4-Chlorophenol	C_6H_5ClO
		Chlorotrifluoroethylene	C_2ClF_3
		Chlorotrifluoroethene	C_2ClF_3
		Chlorotrimethylsilane	C_3H_9ClSi
		Cholesteryl oleate	$C_{45}H_{78}O_2$
		Cholesteryl myristate	$C_{41}H_{72}O_2$
		Cholesteryl palmitate	$C_{43}H_{76}O_2$
		Cholesteryl stearate	$C_{45}H_{80}O_2$
		Chroman	C_9H_7O
		Chromium acetylacetonate	$C_{15}H_{21}CrO_6$
		Chromocene	$C_{10}H_{10}Cr$
		Cinnamic acid	$C_9H_8O_2$
		Citral	$C_{10}H_{16}O$
		Citric acid monohydrate	$C_6H_8O_7 \cdot H_2O$
		Citric acid	$C_6H_8O_7$

Cobaltocene	C ₁₀ H ₁₀ Co	Dibenzothiophene	C ₁₂ H ₈ S
Copper benzylacetylenide	C ₉ H ₇ Cu	1,2-Dibromobenzene	C ₆ H ₄ Br ₂
Copper butylacetylenide	C ₆ H ₉ Cu	1,3-Dibromobenzene	C ₆ H ₄ Br ₂
Copper (II) formate tetradeuterate	C ₂ H ₂ CuO ₄ ·4D ₂ O	1,4-Dibromobenzene	C ₆ H ₄ Br ₂
Copper (II) formate tetrahydrate	C ₂ H ₂ CuO ₄ ·4H ₂ O	1,4-Dibromo-2,3-dichlorohexa- fluorobutane	C ₄ Br ₂ Cl ₂ F ₆
Copper phenylacetylenide	C ₈ H ₅ Cu	1,2-Dibromoethane	C ₂ H ₄ Br ₂
Copper phenylethynylacetylenide	C ₁₀ H ₅ Cu	1,6-Dibromo-2,3,5-trichloro- nonafluorohexane	C ₆ Br ₂ Cl ₃ F ₉
Copper vinylacetylenide	C ₄ H ₃ Cu	1,2-Dibromotetrafluoroethane	C ₂ Br ₂ F ₄
<i>o</i> -Cresol	C ₇ H ₈ O	4,4'-Dibutanoxyloxydi- phenyldiacetylene	C ₂₄ H ₂₂ O ₄
<i>m</i> -Cresol	C ₇ H ₈ O	Di- <i>n</i> -butyl ether	C ₈ H ₁₈ O
<i>p</i> -Cresol	C ₇ H ₈ O	Di- <i>tert</i> -butyl ether	C ₈ H ₁₈ O
Crotonaldehyde	C ₄ H ₆ O	5,6-Dibutyl-5,6-bis(4- <i>tert</i> -butyl- phenyl)decane	C ₃₈ H ₆₂
Cyanamid	CH ₂ N ₂	Dibutyl phthalate	C ₁₆ H ₂₂ O ₄
Cyanoacetamide	C ₃ H ₄ N ₂ O	Dibutyl <i>o</i> -phthalate	C ₁₆ H ₂₂ O ₄
α -Cyanopropionaldehyde	C ₄ H ₅ NO	N,N'-Dibutylurea	C ₉ H ₂₀ N ₂ O
β -Cyanopropionaldehyde	C ₄ H ₅ NO	Dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂
Cyanuric acid	C ₃ H ₃ N ₃ O ₃	1,2-Dichlorobenzene	C ₆ H ₄ Cl ₂
Cyclam	C ₁₀ H ₂₄ N ₄	1,3-Dichlorobenzene	C ₆ H ₄ Cl ₂
β -Cyclodextrin undecahydrate	C ₄₂ H ₇₀ O ₃₅ ·11H ₂ O	1,4-Dichlorobenzene	C ₆ H ₄ Cl ₂
Cyclo-di- <i>p</i> -xylene	C ₁₆ H ₁₆	<i>p</i> -Dichlorobenzene	C ₆ H ₄ Cl ₂
Cycloheptaamylose undecahydrate	C ₄₂ H ₇₀ O ₃₅ ·11H ₂ O	<i>p</i> -Dichlorobenzophenone	C ₁₃ H ₈ Cl ₂ O
<i>cis</i> -Cycloheptene	C ₇ H ₁₂	1,4-Dichlorobutane	C ₄ H ₈ Cl ₂
<i>cis</i> -Cyclohexane-1,2-dicarboxylic- anhydride	C ₈ H ₁₀ O ₃	4,4'-Dichlorodiphenyl sulphone	C ₁₂ H ₈ Cl ₂ O ₂ S
Cyclohexane	C ₆ H ₁₂	1,2-Dichloroethane	C ₂ H ₄ Cl ₂
1,4-Cyclohexanedione	C ₆ H ₈ O ₂	Dichloroethanoic acid	C ₂ H ₂ Cl ₂ O ₂
Cyclohexanone	C ₆ H ₁₀ O	1,6-Dichlorohexane	C ₆ H ₁₂ Cl ₂
(Cyclohexatriene)(cyclopentadienyl)- iron(II) hexafluorophosphate	C ₁₁ H ₁₁ F ₆ FeP	Dichloromethane	CH ₂ Cl ₂
Cyclohexene	C ₆ H ₁₀	Dichlorodimethylsilane	C ₂ H ₆ Cl ₂ Si
Cyclohexene oxide	C ₆ H ₁₀ O	Dichloromethylvinylsilane	C ₃ H ₆ Cl ₂ Si
Cyclohexylbenzene	C ₁₂ H ₁₆	2,4-Dichloro-4'-nitrodiphenyl ether	C ₁₂ H ₇ Cl ₂ NO ₃
Cyclooctadecane	C ₁₈ H ₃₆	2,3-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cycloocta-1,5-diene	C ₈ H ₁₂	2,4-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cyclooctane	C ₈ H ₁₆	2,5-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cyclooctene	C ₈ H ₁₄	2,6-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cyclopentadiene	C ₅ H ₆	3,4-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cyclopentadienyl manganese tricarboxyl	C ₈ H ₅ MnO ₃	3,5-Dichlorophenol	C ₆ H ₄ Cl ₂ O
Cymantrene	C ₈ H ₅ MnO ₃	1,2-Dicyanobenzene	C ₈ H ₄ N ₂
	D	1,4-Dicyanobenzene	C ₈ H ₄ N ₂
Decachlorobiphenyl	C ₁₂ Cl ₁₀	1,1-Dicyclohexyldodecane	C ₂₄ H ₄₆
Decacyclene	C ₃₆ H ₁₈	<i>endo</i> -Dicyclopentadiene	C ₁₀ H ₁₂
Decafluorobiphenyl	C ₁₂ F ₁₀	4,4'-Didecanoyloxydiphenyl- diacetylene	C ₃₆ H ₄₆ O ₄
<i>cis</i> -Decahydronaphthalene	C ₁₀ H ₁₈	Di- <i>n</i> -decylammonium chloride	C ₂₀ H ₄₄ ClN
<i>trans</i> -Decahydronaphthalene	C ₁₀ H ₁₈	4,4'-Didodecanoyloxydiphenyl- diacetylene	C ₄₀ H ₅₄ O ₄
Decanal	C ₁₀ H ₂₀ O	Diethanolamine	C ₄ H ₁₁ NO ₂
Decane	C ₁₀ H ₂₂	4,4'-Diethanoyloxydiphenyldiacetylene	C ₂₀ H ₁₄ O ₄
<i>n</i> -Decane	C ₁₀ H ₂₂	Diethylaminoethyl methacrylate	C ₁₀ H ₁₉ NO ₂
1-Decanethiol	C ₁₀ H ₂₂ S	4,5-Diethyl-4,5-bis-(4- <i>tert</i> -butyl- phenyl)octane	C ₃₂ H ₅₀
<i>cis</i> -Decalin	C ₁₀ H ₁₈	Diethylene glycol	C ₄ H ₁₀ O ₃
<i>trans</i> -Decalin	C ₁₀ H ₁₈	Diethylene glycol-glycerol- adipate polymer	C ₁₃ H ₂₂ O ₈
Decanoic acid	C ₁₀ H ₂₀ O ₂	Diethylene glycol-trimethylolpro- pane-adipate polymer	C ₁₅ H ₂₈ O ₈
<i>n</i> -Decyl mercaptan	C ₁₀ H ₂₂ S	Diethylenimine oxide	C ₄ H ₉ NO
Decyl methacrylate	C ₁₄ H ₂₆ O ₂	Diethylenetriamine	C ₃ H ₁₃ N ₃
Decylcyanobiphenyl	C ₂₃ H ₂₉ N	Di-(2-ethylhexyl)adipate	C ₂₂ H ₄₂ O ₄
Deuterotriglycine fluoroberyllate	C ₆ D ₁₇ BeF ₄ N ₃ O ₆	Di-(2-ethylhexyl) <i>o</i> -phthalate	C ₂₄ H ₃₈ O ₄
Deuterotriglycine sulfate	C ₆ D ₁₇ N ₃ O ₁₀ S	Diethyl ketone	C ₅ H ₁₀ O
Diacenaphtho[1,2- <i>j</i> :1',2'- <i>l</i>]fluoranthene	C ₃₆ H ₁₈	Diethyl mercury	C ₄ H ₁₀ Hg
<i>p</i> -Diacetylbenzene diethyl ketal	C ₁₈ H ₃₀ O ₄	3,3-Diethylpentane	C ₉ H ₂₀
4,4'-Diaminodiphenyl ether	C ₁₂ H ₁₂ N ₂ O	N,N-Diethylurea	C ₅ H ₁₂ N ₂ O
4,4'-Diaminodiphenyl oxide	C ₁₂ H ₁₂ N ₂ O	1,1-Diethylurea	C ₅ H ₁₂ N ₂ O
4,4'-Diaminodiphenyl sulfone	C ₁₂ H ₁₂ N ₂ O ₂ S	1,3-Diethylurea	C ₅ H ₁₂ N ₂ O
Diamond	C	Diethyl zinc	C ₄ H ₁₀ Zn
1,2-Diaminoethane	C ₂ H ₈ N ₂	Diethynyldiphenylgermane	C ₁₆ H ₁₂ Ge
2,3-Diazabicyclo[2.2.2]oct-2-ene N-oxide	C ₆ H ₁₀ N ₂ O		
6,7-Diazatricyclo[3.2.2.0 ^{2,4}]non-6-ene N-oxide	C ₇ H ₁₀ N ₂ O		
1,2,3,4-Dibenzanthracene picric acid	C ₂₈ H ₁₇ N ₃ O ₇		
1,2,5,6-Dibenzanthracene picric acid	C ₂₈ H ₁₇ N ₃ O ₇		

1,1-Diethynyl-2,3,4,5-tetraphenyl-1-germacyclopentadiene	$C_{32}H_{22}Ge$	2,3-Dimethylphenol	$C_8H_{10}O$
1,2-Difluorobenzene	$C_6H_4F_2$	2,4-Dimethylphenol	$C_8H_{10}O$
1,3-Difluorobenzene	$C_6H_4F_2$	2,5-Dimethylphenol	$C_8H_{10}O$
1,4-Difluorobenzene	$C_6H_4F_2$	2,6-Dimethylphenol	$C_8H_{10}O$
4,4'-Difluorobiphenyl	$C_{12}H_8F_2$	3,4-Dimethylphenol	$C_8H_{10}O$
1,1-Difluoroethane	$C_2H_4F_2$	3,5-Dimethylphenol	$C_8H_{10}O$
Diformylhydrazine	$C_2H_4N_2O_2$	3,4-Dimethylphospholyl manganese tricarbonyl	$C_9H_8MnO_3P$
Diglycine nitrate	$C_4H_{11}N_3O_7$	Dimethyl <i>o</i> -phthalate	$C_{10}H_{10}O_4$
Diglyme	$C_6H_{14}O_3$	N,N-Dimethyl-1,3-propanediamine	$C_5H_{14}N_2$
4,4'-Diheptanoyloxydiphenyl-diacetylene	$C_{30}H_{34}O_4$	2,2-Dimethylpropanamide	$C_5H_{11}NO$
4,4'-Dihexanoyloxydiphenyl-diacetylene	$C_{28}H_{30}O_4$	2-(1,2-Dimethylpropyl)-5,6-methylheptenal	$C_{14}H_{26}O$
Di- <i>n</i> -hexylammonium chloride	$C_{12}H_{28}ClN$	2,3-Dimethylpyridine	C_7H_9N
Di- <i>n</i> -hexyl sebacate	$C_{22}H_{42}O_4$	2,4-Dimethylpyridine	C_7H_9N
9,10-Dihydroanthracene	$C_{14}H_{12}$	2,5-Dimethylpyridine	C_7H_9N
4,5-Dihydro-2,3-benzofuran	C_8H_8O	2,6-Dimethylpyridine	C_7H_9N
2,5-Dihydrofuran clathrate hydrate	$C_4H_6O \cdot 17H_2O$	3,4-Dimethylpyridine	C_7H_9N
9,10-Dihydrophenanthrene	$C_{14}H_{12}$	3,5-Dimethylpyridine	C_7H_9N
3,4-Dihydroxybenzaldehyde	$C_7H_6O_3$	2,4-Dimethylpyrrole	C_6H_9N
1,2-Dihydroxybenzene	$C_6H_6O_2$	2,5-Dimethylpyrrole	C_6H_9N
1,3-Dihydroxybenzene	$C_6H_6O_2$	1,1-Dimethyl-1-silacyclobutane	$C_6H_{12}Si$
1,4-Dihydroxybenzene	$C_6H_6O_2$	6,10-Dimethyl-2-undecanone	$C_{13}H_{26}O$
4,4'-Dihydroxybiphenyl	$C_{12}H_{10}O_2$	6,10-Dimethyl-4,5,9-undecatrien-2-one	$C_{13}H_{20}O$
1,4-Dihydroxybutane	$C_4H_{10}O_2$	6,10-Dimethyl-3,5,9-undecatrien-2-one	$C_{13}H_{20}O$
4,4'-Dihydroxydiphenyl-2,2-propane	$C_{15}H_{16}O_2$	1,3-Dimethyluracil	$C_6H_8N_2O_2$
1,2-Dihydroxyethane	$C_2H_6O_2$	1,1-Dimethylurea	$C_3H_8N_2O$
1,5-Dihydroxy-3-oxapentane	$C_4H_{10}O_3$	1,3-Dimethylurea	$C_3H_8N_2O$
1,2-Dihydroxypropane	$C_3H_8O_2$	Dimethylzinc	C_2H_6Zn
3,5-Dihydroxytoluene monohydrate	$C_7H_8O_2 \cdot H_2O$	Dinitrile-2,2'-azodiisobutyric acid	$C_8H_{12}N_4$
1,2-Diiodobenzene	$C_6H_4I_2$	1,2-Dinitrobenzene	$C_6H_4N_2O_4$
1,3-Diiodobenzene	$C_6H_4I_2$	1,3-Dinitrobenzene	$C_6H_4N_2O_4$
1,4-Diiodobenzene	$C_6H_4I_2$	1,4-Dinitrobenzene	$C_6H_4N_2O_4$
Diisobutyl amine	$C_8H_{19}N$	2,3-Dinitrophenol	$C_6H_4N_2O_5$
Diisobutyl ketone	$C_9H_{18}O$	2,4-Dinitrophenol	$C_6H_4N_2O_5$
1,6-Diisocyanatohexane	$C_8H_{12}N_2O_2$	2,5-Dinitrophenol	$C_6H_4N_2O_5$
1,1-Dimethylazoethane	$C_8H_{18}N_2$	2,6-Dinitrophenol	$C_6H_4N_2O_5$
1,1-Dimethylazoxyethane	$C_8H_{18}N_2O$	3,4-Dinitrophenol	$C_6H_4N_2O_5$
4,4'-Dimethoxyazoxybenzene	$C_{14}H_{14}N_2O_3$	3,5-Dinitrophenol	$C_6H_4N_2O_5$
1,1-Dimethoxy-3-cyanopropane	$C_6H_{11}NO_2$	2,2-Dinitropropane	$C_3H_6N_2O_4$
2,2-Dimethoxypropane	$C_5H_{12}O_2$	4,4'-Dinonanoyloxydiphenyl diacetylene	$C_{34}H_{42}O_4$
Dimethyl acetal of β -cyanopropion-aldehyde	$C_6H_{11}NO_2$	4,4'-Dioctanoyloxydiphenyl-diacetylene	$C_{32}H_{38}O_4$
Dimethylaminoethyl methacrylate	$C_8H_{15}NO_2$	Di- <i>n</i> -octylammonium chloride	$C_{16}H_{36}ClN$
3-Dimethylaminomethyl indole	$C_{11}H_{14}N_2$	Dioctyl <i>o</i> -phthalate	$C_{24}H_{38}O_4$
Dimethylaminopropylendiamine	$C_5H_{15}N_3$	1,4-Dioxane	$C_4H_8O_2$
2,6-Dimethylaniline	$C_8H_{11}N$	1,3-Dioxane clathrate hydrate	$C_4H_8O_2 \cdot 17H_2O$
1,2-Dimethylbenzene	C_8H_{10}	1,4-Dioxane-2,5-dione	$C_4H_4O_4$
1,4-Dimethylbenzene	C_8H_{10}	3,6-Dioxaoctane	$C_6H_{10}O_2$
2,2'-Dimethylbiphenyl	$C_{14}H_{14}$	1,3-Dioxolan	$C_3H_6O_2$
2,2-Dimethylbutane	C_6H_{14}	1,3-Dioxolane clathrate hydrate	$C_3H_6O_2 \cdot 17H_2O$
2,3-Dimethylbutane	C_6H_{14}	2,5-Dioxopiperazine	$C_4H_6N_2O_2$
3,3-Dimethyl-2-butanone	$C_6H_{12}O$	4,4'-Dipentanoyloxydiphenyldiacetylene	$C_{26}H_{26}O_4$
2,3-Dimethyl-2,3-bis(4- <i>tert</i> -butyl-phenyl)butane	$C_{26}H_{38}$	Di- <i>n</i> -pentylammonium chloride	$C_{10}H_{24}ClN$
3,4-Dimethyl-3,4-bis(4- <i>tert</i> -butyl-phenyl)hexane	$C_{30}H_{46}$	Diphenyl	$C_{12}H_{10}$
1,4-Dimethylcubane dicarboxylate	$C_{12}H_{12}O_4$	Diphenylacetylene	$C_{14}H_{10}$
2,3-Dimethyl-2,3-diphenylbutane	$C_{16}H_{18}$	1,2-Diphenylbenzimidazole	$C_{19}H_{14}N_2$
N,N-Dimethylformamide	C_3H_7NO	1,1'-Diphenyl-1,1'-bicyclohexane	$C_{24}H_{30}$
2,6-Dimethyl-4-heptanone	$C_9H_{18}O$	1,1'-Diphenyl-1,1'-bicyclooctane	$C_{26}H_{34}$
N,N'-Dimethylhydrazine	$C_2H_8N_2$	1,1'-Diphenyl-1,1'-bicyclopentane	$C_{22}H_{26}$
N,N-Dimethylmethanamide	C_3H_7NO	Diphenylcarbodiimide	$C_{13}H_{10}N_2$
2,3-Dimethylnaphthalene	$C_{12}H_{12}$	Diphenyldiethynylsilane	$C_{16}H_{12}Si$
3,7-Dimethyl-6-octen-1-yn-3-ol	$C_{10}H_{16}O$	Diphenyl diketone	$C_{14}H_{10}O_2$
3,3-Dimethyl-2-oxabutane	$C_5H_{12}O$	1,1-Diphenyldodecane	$C_{24}H_{34}$
3,4-Dimethylpentanal	$C_7H_{14}O$	4',4''-Diphenylenepthalidodicarboxylic acid dihydrazide	$C_{22}H_{18}N_4O_4$
2,3-Dimethylpentane	C_7H_{16}	1,2-Diphenylethane	$C_{14}H_{14}$
3,3-Dimethylpentane	C_7H_{16}	Diphenylethylene	$C_{14}H_{10}$
N,N-Dimethyl-2-pentylnonylamine	$C_{16}H_{35}N$		

Diphenylmethane	$C_{13}H_{12}$	Ethylene oxide hydrate	$C_2H_4O \cdot 7H_2O$
4,4'-Diphenyl methane diisocyanate	$C_{15}H_{10}N_2O_2$	Ethylidene difluoride	$C_2H_4F_2$
1,3-Diphenylurea	$C_{13}H_{12}N_2O$	Eugenol	$C_{10}H_{12}O_2$
Dipiperazinylolethane	$C_{10}H_{22}N_4$		F
4,4'-Dipropanoyloxydiphenyl- diacetylene	$C_{22}H_{18}O_4$	Ferrocene	$C_{10}H_{10}Fe$
Dipropylamine	$C_6H_{15}N$	Ferrocene- <i>d</i> ₁₀	$C_{10}D_{10}Fe$
4,5-Dipropyl-4,5-bis(4- <i>tert</i> -butyl- phenyl)octane	$C_{34}H_{54}$	Ferrocene- <i>d</i> ₁₀ thiourea clathrate(1:3)	$C_{13}H_{12}D_{10}FeN_6S_3$
Dipropylene glycol	$C_6H_{14}O_3$	Ferrocenium hexafluorophosphate	$C_{10}H_{10}F_6FeP$
1,3-Dithiane	$C_4H_8S_2$	Fluoranthene picric acid	$C_{22}H_{13}N_3O_7$
1,4-Dithiane	$C_4H_8S_2$	Fluorene picric acid	$C_{19}H_{13}N_3O_7$
4,4'-Diundecanoyloxydiphenyldiacetylene	$C_{38}H_{50}O_4$	Fluorobenzene	C_6H_5F
<i>n</i> -Docosane	$C_{22}H_{46}$	2-Fluoronaphthalene	$C_{10}H_7F$
<i>n</i> -Dodecane	$C_{12}H_{26}$	4-Fluorotoluene	C_7H_7F
1-Dodecanethiol	$C_{12}H_{28}S$	Fluorotrichloromethane	CCl_3F
<i>n</i> -Dodecyl mercaptan	$C_{12}H_{26}S$	Formamide	CH_3NO
Dodecylammonium tetra- chloromanganate	$C_{24}H_{56}N_2MnCl_4$	Freon 11	CCl_3F
Dodecylammonium tetrachloro- manganate (II)	$C_{24}H_{56}Cl_4MnN_2$	Freon 14	CF_4
Dodecylammonium tetrachloro- zincate (II)	$C_{24}H_{56}Cl_4N_2Zn$	Freon 113	$C_2Cl_3F_3$
<i>n</i> -Dotriacontane	$C_{32}H_{66}$	Freon 152A	$C_2H_4F_2$
Dulcitol	$C_6H_{14}O_6$	Freon C318	C_4F_8
Dulcitol	$C_6H_{14}O_6$	Fructose	$C_6H_{12}O_6$
		Fructose(D)	$C_6H_{12}O_6$
			G
<i>n</i> -Eicosane	$C_{20}H_{42}$	Galactitol	$C_6H_{14}O_6$
1-Eicosanethiol	$C_{20}H_{42}S$	Galactose(D)	$C_6H_{12}O_6$
<i>n</i> -Eicosanyl mercaptan	$C_{20}H_{42}S$	Gallium triethyl	$C_6H_{15}Ga$
Enanthal	$C_7H_{14}O$	Galvinoxyl hydrogalvinoxyl (6:1) radical	$C_{203}H_{288}O_{14}$
ζ -Enantholactam	$C_7H_{13}NO$	Galvinoxyl hydrogalvinoxyl (9:1) radical	$C_{290}H_{411}O_{20}$
Endobicyclo[2.2.1]-5-heptene-2,3- dicarboxylic acid anhydride	$C_9H_8O_3$	Geranial	$C_{10}H_{16}O$
Ethanal	C_2H_4O	α -Glucose(D)	$C_6H_{12}O_6$
Ethanamide	C_2H_5NO	Glutamic acid	$C_5H_9NO_4$
Ethane	C_2H_6	Glycerol	$C_3H_8O_3$
1,2-Ethanediol	$C_2H_6O_2$	Glycerol triacetate	$C_9H_{14}O_6$
Ethanoic acid	$C_2H_4O_2$	Glycerol tributyratate	$C_{15}H_{26}O_6$
<i>N</i> -Ethanol isatoxine	$C_{10}H_{10}N_2O_2$	Glycerol trimargarate	$C_{54}H_{104}O_6$
Ethanol	C_2H_6O	Glycerol tristearate	$C_{57}H_{110}O_6$
4-Ethoxy-4'-butylazobenzene	$C_{18}H_{22}N_2O$	Glycolide	$C_4H_4O_4$
<i>N-p</i> -Ethoxybenzylidene- <i>p'</i> - butylaniline	$C_{19}H_{23}NO$	Gramine	$C_{11}H_{14}N_2$
2-Ethoxyethanol acetate	$C_6H_{12}O_3$	Graphite	C
2-Ethoxyisobutylacetate	$C_{10}H_{12}N_2O_3$		H
4-Ethoxyisobutylacetate	$C_{10}H_{12}N_2O_3$	<i>n</i> -Henicosane	$C_{21}H_{44}$
Ethyl acetate	$C_4H_8O_2$	<i>n</i> -Heptacosane	$C_{27}H_{56}$
Ethyl alcohol	C_2H_6O	<i>n</i> -Heptadecane	$C_{17}H_{36}$
2-Ethylbiphenyl	$C_{14}H_{14}$	<i>n</i> -Heptaldehyde	$C_7H_{14}O$
Ethyl carbamate	$C_3H_7NO_2$	2,2,4,4,6,8,8-Heptamethylnonane	$C_{16}H_{34}$
Ethyl cyanoacetate	$C_5H_7NO_2$	1,1,1,3,5,5,5-Heptamethyl-3-phenyl- trisiloxane	$C_{11}H_{20}O_3Si_3$
Ethyl-2,2-dimethylpropanoate	$C_7H_{14}O_2$	Heptanal	$C_7H_{14}O$
Ethyl ethanoate	$C_4H_8O_2$	<i>n</i> -Heptane	C_7H_{16}
2-Ethylhexanol	$C_8H_{18}O$	Heptanol	$C_7H_{16}O$
Ethyl phenyl ether	$C_8H_{10}O$	1-Heptanol	$C_7H_{16}O$
Ethyl propanoate	$C_5H_{10}O_2$	4- <i>n</i> -Heptoxyphenyl-4'- <i>n</i> - butylbenzoate	$C_{24}H_{32}O_3$
Ethyl propionate	$C_5H_{10}O_2$	<i>n</i> -Heptyl alcohol	$C_7H_{16}O$
Ethyl <i>n</i> -propyl ether	$C_5H_{12}O$	Hexachloroethane	C_2Cl_6
Ethyl urea	$C_3H_8N_2O$	<i>n</i> -Hexacosane	$C_{26}H_{54}$
Ethylene	C_2H_4	Hexadecafluoroheptane	C_7F_{16}
Ethylene butadiene copolymer	$(C_6H_{10})_n$	<i>n</i> -Hexadecane	$C_{16}H_{34}$
Ethylenediamine	$C_2H_8N_2$	1-Hexadecanethiol	$C_{16}H_{34}S$
Ethylene dibromide	$C_2H_4Br_2$	1-Hexadecanol	$C_{16}H_{34}O$
Ethylene dichloride	$C_2H_4Cl_2$	<i>n</i> -Hexadecyl mercaptan	$C_{16}H_{34}S$
Ethylene glycol	$C_2H_6O_2$	2,4-Hexadiyne	C_6H_6
Ethylene glycol acetate	$C_4H_8O_3$	Hexa-O-decanoyl-scylo-inositol	$C_{66}H_{120}O_{12}$
Ethylene glycol diacetate	$C_6H_{10}O_4$	Hexaethylbenzene	$C_{18}H_{30}$
Ethylene glycol dipropanoate	$C_8H_{14}O_4$	1,1,3,3,5,5-Hexaethylcyclotrisiloxane	$C_{12}H_{30}O_3Si_3$
Ethylene glycol dibutanoate	$C_{10}H_{18}O_4$	Hexaethylene glycol	$C_{12}H_{26}O_7$
Ethylene oxalate	$C_4H_4O_4$	Hexafluorobenzene	C_6F_6
		Hexa-O-hexanoyl-scylo-inositol	$C_{42}H_{72}O_{12}$

Hexahydroxyhexaethylenediamine chromium sulfate decahydrate	$C_{12}H_{52}Cr_4N_{12}O_{18}S_3 \cdot 10H_2O$	2-Hydroxypropanoic acid (DL)	$C_3H_6O_3$
Hexamethyldisilane	$C_6H_{18}Si_2$	m-Hydroxytoluene	C_7H_8O
1,6-Hexamethylene diisocyanate	$C_8H_{12}N_2O_2$	o-Hydroxytoluene	C_7H_8O
1,6-Hexamethylene diisocyanate polycyclotrimer	$(C_8H_{12}N_2O_2)_n$	p-Hydroxytoluene	C_7H_8O
1-Hexanol	$C_6H_{14}O$		
2,3,6,7,10,11-Hexa-n-octanoyloxytriphenylene	$C_{66}H_{96}O_{12}$	I	
2,3,6,7,10,11-Hexa-n-octanoyloxytriphenylene (solid I)	$C_{66}H_{96}O_{12}$	Imidazole	$C_3H_4N_2$
2,3,6,7,10,11-Hexa-n-octanoyloxytriphenylene (solid II)	$C_{66}H_{96}O_{12}$	Indazole	$C_7H_6N_2$
2,3,6,7,10,11-Hexa-n-octanoyloxytriphenylene (solid III)	$C_{66}H_{96}O_{12}$	Indene picric acid	$C_{15}H_{11}N_3O_7$
Hexa-O-octanoyl-scylo-inositol	$C_{54}H_{96}O_{12}$	3-Indole aldehyde	C_9H_7NO
4b α ,4c β ,5,9b β ,9c α ,10-Hexahydrocyclobuta[1,2-a:3,4-a']diindene	$C_{18}H_{16}$	Indole	C_8H_7N
4b β ,4c α ,9,9a α ,9b β ,10-Hexahydrocyclobuta[1,2-a:4,3-a']diindene	$C_{18}H_{16}$	meso-Inositol	$C_6H_{12}O_6$
1,1,3,3,5,5-Hexamethyl-1,3,5-trisilacyclohexane	$C_9H_{24}Si_3$	Iodobis(N,N-dimethyldithiocarbamate) iron (III)	$C_6H_{12}FeIN_2S_4$
1,1,1,5,5,5-Hexamethyl-3,3-diphenyltrisiloxane	$C_{24}H_{28}O_2Si_3$	Iodomethane	CH ₃ I
1,1,3,3,5,5-Hexamethyl-7,7-diphenyltetrasiloxane	$C_{18}H_{28}Si_4O_4$	Iron (III) acetylacetonate	$C_{15}H_{21}FeO_6$
Hexamethylbenzene	$C_{12}H_{18}$	Isoamyl propionate	$C_8H_{16}O_2$
Hexamethyldisilylmethane	$C_7H_{20}Si_2$	Isobutene	C_4H_8
1,6-Hexamethylene diisocyanate	$C_8H_{12}N_2$	Isobutyl alcohol	$C_4H_{10}O$
Hexamethylphosphoramide	$C_6H_{18}N_3OP$	Isobutylmethylketone	$C_6H_{12}O$
Hexamethylphosphoric triamide	$C_6H_{18}N_3OP$	Isobutyric acid	$C_4H_8O_2$
cis-(5,12)-7,7,14,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane	$C_{16}H_{36}N_4$	Isochroman	C_9H_7O
Hexamethyltrisilazane	$C_6H_{21}N_3Si_3$	1-(1-Isocyanato-1-methylethyl)-3-(1-methylethenyl)benzene	$C_{13}H_{15}NO$
n-Hexane	C_6H_{14}	1-(1-Isocyanato-1-methylethyl)-4-(1-methylethenyl)benzene	$C_{13}H_{15}NO$
1,6-Hexanediol	$C_6H_{14}O_2$	Isonitrosoacetanilide	$C_8H_8N_2O_2$
1-Hexanethiol	$C_6H_{14}S$	Isooctane	C_8H_{18}
1-Hexanol	$C_6H_{14}O$	Isooctyl alcohol	$C_8H_{18}O$
2-Hexanone	$C_6H_{12}O$	Isophytol	$C_{20}H_{40}O$
3-Hexanone	$C_6H_{12}O$	Isopropyl methyl ketone	$C_5H_{10}O$
1,1,3,3,5,5-Hexaphenyl-7,7-dimethylcyclotetrasiloxane	$C_{38}H_{36}O_4Si_4$	Isopropyl nitrate	$C_3H_7NO_3$
Hexaphenylisomelamine	$C_{39}H_{30}N_6$	Isopropyl urea	$C_4H_{10}N_2O$
Hexaphenylmelamine	$C_{39}H_{30}N_6$	Isoquinoline	C_9H_7N
Hexapropylene glycol	$C_{18}H_{38}O_7$		
n-Hexatriacontane	$C_{36}H_{74}$	L	
1-Hexene	C_6H_{12}	Lactic acid (DL)	$C_3H_6O_3$
n-Hexyl alcohol	$C_6H_{14}O$	Lactide (DL)	$C_6H_8O_4$
n-Hexyl ethanoate	$C_8H_{16}O_2$	Lactose, anhydrous	$C_{12}H_{22}O_{11}$
n-Hexyl mercaptan	$C_6H_{14}S$	Lead dicalcium propionate	$C_{18}H_{30}Ca_2O_{12}Pb$
p-n-Hexyloxybenzylideneaniline	$C_{19}H_{23}NO$	Leucine (L)	$C_6H_{13}NO_2$
p-n-Hexyloxybenzylideneamino-p'-benzonitrile	$C_{20}H_{22}N_2O$	Lithium acetate dihydrate	$C_2H_3LiO_2 \cdot 2H_2O$
p-n-Hexyloxybenzylideneamino-p'-chlorobenzene	$C_{19}H_{22}ClNO$	Lithium butyrate	$C_4H_7LiO_2$
p-n-Hexyloxybenzylideneamino-p'-fluorobenzene	$C_{19}H_{22}FNO$	Lithium n-heptanoate	$C_7H_{13}LiO_2$
N-p-n-Hexyloxybenzylidene-p'-n-butylaniline	$C_{23}H_{31}NO$	Lithium n-hexanoate	$C_6H_{11}LiO_2$
p-n-Hexyloxybenzylidene-p'-toluidine	$C_{20}H_{25}NO$	Lithium n-pentanoate	$C_5H_9LiO_2$
1-Hexynylcopper	C_6H_9Cu	Lithium propionate	$C_3H_5LiO_2$
HMX	$C_4H_8N_8O_8$		
Homocubane-4-carboxylic acid	$C_{10}H_{10}O_2$	M	
Hydrazinium hydrogen oxalate	$C_2H_6N_2O_4$	Magnesium acetate	$C_4H_6O_4Mg$
Hydroquinone	$C_6H_6O_2$	Magnesium diethanoate tetrahydrate	$C_4H_6MgO_4 \cdot 4H_2O$
1-Hydroxyadamantane	$C_{10}H_{16}O$	Malononitrile	$C_3H_2N_2$
2-Hydroxyadamantane	$C_{10}H_{16}O$	Maleic anhydride	$C_4H_2O_3$
2-(2'-Hydroxyethoxy)ethyl pivalate	$C_9H_{18}O_4$	Maltose	$C_{12}H_{22}O_{11}$
2-Hydroxyethyl-2',2'-dimethylpropionate	$C_7H_{14}O_3$	Manganocene	$C_{10}H_{10}Mn$
2-Hydroxyethyl pivalate	$C_7H_{14}O_3$	Mannitol	$C_6H_{14}O_6$
		Mannitol(D)	$C_6H_{14}O_6$
		Mannose(D)	$C_6H_{12}O_6$
		Manxane	$C_{11}H_{20}$
		Methacrylic acid	$C_4H_6O_2$
		p-Methacryloyloxybenzoic acid	$C_{11}H_{10}O_4$
		Methanamide	CH ₃ NO
		Methane	CH ₄
		Methanol	CH ₃ O
		Methionine (DL)	$C_5H_{11}NO_2S$
		Methionine (L)	$C_5H_{11}NO_2S$
		Methoxybenzene	C_7H_8O
		N-(4-Methoxybenzylidene)-p-(n-butyl)-aniline	$C_{18}H_{21}NO$
		2-Methoxyethanol acetate	$C_5H_{10}O_3$
		2-Methoxyisonitrosoacetanilide	$C_9H_{10}N_2O_3$

4-Methoxyisonitrosoacetanilide	$C_9H_{10}N_2O_3$	2-Methylpyridine	C_6H_7N
2-Methoxy-1-propene	C_4H_8O	4-Methylpyridine	C_6H_7N
3-Methoxypropylamine	$C_4H_{11}NO$	N-Methylpyrrole	C_5H_7N
Methyl acrylate	$C_4H_6O_2$	3-Methylpyrrolidine	$C_5H_{11}N$
α -Methyl acrylic acid	$C_4H_6O_2$	Methyl silicate	$C_4H_{12}O_4Si$
Methyl alcohol	CH_4O	α -Methylstyrene	C_9H_{10}
Methylammonium hexachloro- tellurate	$C_2H_{12}Cl_6Te$	Methyl trichloroethioacrylate	$C_4H_3Cl_3OS$
Methylammonium iodide	CH_6IN	Methyltriphenylphosphonium bis(7,7,8,8-tetracyanoquinodimethanide)	$C_{43}H_{26}N_8P$
4-Methylaniline	C_7H_9N	N-Methylvaleramide	$C_6H_{13}NO$
N-Methylaniline	C_7H_9N	4-Methoxy-4'-heptanoylazobenzene	$C_{20}H_{24}N_2O_3$
2-Methyl-2-butanol	$C_5H_{12}O$	Milk sugar	$C_{12}H_{22}O_{11}$
3-Methyl-2-butanone	$C_5H_{10}O$	Mixed valence iron oxo-centered complex with acetate and 3-methyl pyridine	$C_{36}H_{46}Fe_3N_4O_{13}$
2-Methyl-1-butene	C_5H_{10}	Monobutylurea	$C_5H_{12}N_2O$
2-Methyl-2-butene	C_5H_{10}	Mono- <i>tert</i> -butylurea	$C_5H_{12}N_2O$
3-Methyl-1-butene	C_5H_{10}	Monochloroacetic acid	$C_2H_3ClO_2$
2-Methyl-3-buten-2-ol	$C_5H_{10}O$	Monoethylurea	$C_3H_8N_2O$
4-(2-Methylbutoxy)phenyl ester of 4- <i>n</i> -decycloxybenzoic acid (D)	$C_{28}H_{40}O_4$	Monoisopropylurea	$C_4H_{10}N_2O$
Methyl <i>n</i> -butyl ether	$C_5H_{12}O$	Monomethylurea	$C_2H_6N_2O$
Methyl <i>tert</i> -butyl ether	$C_5H_{12}O$	Monophenylurea	$C_7H_8N_2O$
Methyl carbamate	$C_2H_5NO_2$	Monopropylurea	$C_4H_{10}N_2O$
N-Methylcarbazole	$C_{13}H_{11}N$	Morpholine	C_4H_9NO
Methylchloroform	$C_2H_3Cl_3$		
Methyl cyanide	C_2H_3N	N	
Methylcyclohexane	C_7H_{14}	Naphthalene picric acid	$C_{16}H_{11}N_3O_7$
4-Methylcyclohexene	C_7H_{12}	Naphthalene-tetracyanobenzene	$C_{20}H_{10}N_4$
Methyl <i>n</i> -decyl ether	$C_{11}H_{24}O$	Naphthalene-tetracyanoethylene	$C_{18}H_8N_4$
3,3'-Methylene bis(6-aminophenol)	$C_{13}H_{14}N_2O_2$	Naphthalene	$C_{10}H_8$
Methylenecyclobutane	C_4H_8	Natural ricinoleic acid	$C_{18}H_{34}O_3$
Methylene dichloride	CH_2Cl_2	Nickelocene	$C_{10}H_{10}Ni$
Methylene glycol acetate	$C_3H_6O_3$	3-Nitroaniline	$C_6H_6N_2O_2$
Methyl ester of nitroacetic acid	$C_3H_5NO_4$	4-Nitroaniline	$C_6H_6N_2O_2$
Methylethylethanolamine	$C_5H_{13}NO$	<i>p</i> -Nitroanisole	$C_7H_7NO_3$
Methyl ethyl ketone	C_4H_8O	Nitrobenzene	$C_6H_5NO_2$
N-Methylformamide	C_2H_5NO	4-Nitrobenzoic acid	$C_7H_6NO_2$
Methyl formate	$C_2H_4O_2$	4-Nitrochlorobenzene	$C_6H_4ClNO_2$
2-Methyl-1-heptanol	$C_8H_{18}O$	<i>p</i> -Nitroethoxybenzene	$C_8H_9NO_3$
6-Methyl-5-hepten-2-one	$C_8H_{14}O$	4-Nitromethoxybenzene	$C_7H_7NO_3$
3-Methylhexanal	$C_7H_{14}O$	<i>p</i> -Nitrophenetole	$C_8H_9NO_3$
Methyl iodide	CH_3I	2-Nitrophenol	$C_6H_5NO_3$
Methyl methacrylate	$C_5H_8O_2$	3-Nitrophenol	$C_6H_5NO_3$
N-Methylmethanamide	C_2H_5NO	4-Nitrophenol	$C_6H_5NO_3$
Methyl methanoate	$C_2H_4O_2$	4'-Nitrophenyl-4- <i>n</i> -octyloxybenzoate	$C_{21}H_{25}NO_5$
Methyl 2-methylpropenoate	$C_5H_8O_2$	4-Nitrophenyl-4'-octyloxybenzoate	$C_{21}H_{25}NO_5$
Methyl nitroacetate	$C_3H_5NO_4$	<i>n</i> -Nonacosane	$C_{29}H_{60}$
2-Methyloxirane	C_3H_6O	<i>n</i> -Nonadecane	$C_{19}H_{40}$
N-Methylpentanamide	$C_6H_{13}NO$	Nonanal	$C_9H_{18}O$
2-Methylpentane	C_6H_{14}	<i>n</i> -Nonane	C_9H_{20}
3-Methylpentane	C_6H_{14}	5-Nonanone	$C_9H_{18}O$
2-Methyl-1-pentanol	$C_6H_{14}O$	Nonylcyanobiphenyl	$C_{22}H_{27}N$
3-Methyl-2-pentanol	$C_6H_{14}O$	Nonyl methacrylate	$C_{13}H_{24}O_2$
3-Methyl-3-pentanol	$C_6H_{14}O$	Norbornadiene	C_7H_8
4-Methyl-2-pentanol	$C_6H_{14}O$	Norbornane	C_7H_{12}
4-Methyl-2-pentanone	$C_6H_{12}O$	Norbornene	C_7H_{10}
Methyl perfluorobutanoate	$C_5H_3F_7O_2$	Norleucine (DL)	$C_6H_{13}NO_2$
4-Methylphenanthrene	$C_{15}H_{12}$	Norleucine (L)	$C_6H_{13}NO_2$
2-Methylphenol	C_7H_8O	Northindrone 4-cyclohexylbenzoate	$C_{33}H_{40}O_2$
3-Methylphenol	C_7H_8O	Northindrone-6-(4-chlorophenyl)- hexanoate	$C_{32}H_{39}ClO_2$
4-Methylphenol	C_7H_8O	Northindrone acetate	$C_{22}H_{28}O_2$
2-Methylpiperidine	$C_6H_{13}N$	Northindrone benzoate	$C_{27}H_{30}O_2$
Methyl phenyl ether	C_7H_8O	Northindrone biphenyl-4-carboxylate	$C_{33}H_{34}O_2$
2-Methylpropanamide	C_4H_9NO	Northindrone dimethylpropionate	$C_{25}H_{34}O_2$
Methyl propanoate	$C_4H_8O_2$	Northindrone heptanoate	$C_{27}H_{38}O_2$
2-Methylpropanoic acid	$C_4H_8O_2$	Northindrone pentamethylsiloxyl ether	$C_{25}H_{40}O_2Si_2$
2-Methyl-1-propanol	$C_4H_{10}O$	Northindrone <i>trans</i> -3-(4-butylcyclo- hexyl)propionate	$C_{33}H_{48}O_2$
2-Methyl-2-propanol	$C_4H_{10}O$	Northindrone <i>trans</i> -4-hexylcyclo- hexylcarboxylate	$C_{33}H_{34}O_2$
2-Methylpropene	C_4H_8		
Methyl propenoate	$C_4H_6O_2$		
Methyl propionate	$C_4H_8O_2$		
Methyl <i>n</i> -propyl ether	$C_4H_{10}O$		

Northindrone	C ₂₀ H ₂₆ O	<i>n</i> -Pentylamine	C ₅ H ₁₃ N
Nortricyclene	C ₇ H ₁₀	Pentylamine manganese tetrachloride	C ₅ H ₁₆ Cl ₄ Mn
Norvaline (L)	C ₅ H ₁₁ NO ₂	2-Pentylnonenal	C ₁₄ H ₂₆ O
		<i>N-p-n</i> -Pentylxybenzylidene- <i>p'</i> - <i>n</i> -butylaniline	C ₂₂ H ₂₉ NO
O		Perchlorobiphenyl	C ₁₂ Cl ₁₀
<i>n</i> -Octacosane	C ₂₈ H ₅₈	Perfluorobenzene	C ₆ F ₆
<i>n</i> -Octadecane	C ₁₈ H ₃₈	Perfluorobiphenyl	C ₁₂ F ₁₀
1-Octadecanethiol	C ₁₈ H ₃₈ S	<i>n</i> -Perfluorobutane	C ₄ F ₁₀
Octadecanoic acid	C ₁₈ H ₃₆ O ₂	Perfluoroheptane	C ₇ F ₁₆
Octadecylammonium cadmium tetrachloride	C ₃₆ H ₈₀ CdCl ₄ N ₂	<i>n</i> -Perfluorohexane	C ₆ F ₁₄
<i>n</i> -Octadecyl mercaptan	C ₁₈ H ₃₈ S	Perfluoromethyldiethylamine	C ₃ F ₁₃ N
Octaethylcyclotetrasiloxane	C ₁₆ H ₄₀ O ₄ Si ₄	<i>n</i> -Perfluoropentane	C ₅ F ₁₂
Octafluorocyclobutane	C ₄ F ₈	Perfluorotriethylamine	C ₆ F ₁₅ N
Octagen	C ₄ H ₈ N ₈ O ₈	Perhydrophenanthrene	C ₁₄ H ₂₄
Octagen(α)	C ₄ H ₈ N ₈ O ₈	Perylene picric acid	C ₂₆ H ₁₅ N ₃ O ₇
Octagen(β)	C ₄ H ₈ N ₈ O ₈	Phenanthrene	C ₁₄ H ₁₀
1,2,3,4,5,6,7,8-Octahydroanthracene	C ₁₄ H ₁₈	Phenanthridine	C ₁₃ H ₉ N
5,6,6a,6b,7,8,12b,12c-Octahydro-dibenzo[a,i]biphenylene	C ₂₀ H ₂₀	Phenol	C ₆ H ₆ O
5,6,6a,6b,11,12,12a,12b-Octahydro-dibenzo[a,g]biphenylene	C ₂₀ H ₂₀	Phenolphthalein	C ₂₀ H ₁₄ O ₄
1,1,4,4,10,10,13,13-Octamethyl-cyclooctadecane	C ₂₆ H ₅₂	1-Phenyl-1-cyclohexyldodecane	C ₂₄ H ₄₀ O
Octamethyltetrasiloxane	C ₈ H ₂₄ Si ₄ O ₄	Phenyl glycidyl ether	C ₉ H ₁₀ O ₂
Octamethyltetrasilazane	C ₈ H ₂₈ Ni ₄ Si	Phenylacetylene	C ₈ H ₆
Octanal	C ₈ H ₁₆ O	Phenylaminoethyl methacrylate	C ₁₂ H ₁₅ NO ₂
<i>n</i> -Octane	C ₈ H ₁₈	1,3-Phenylenediamine	C ₆ H ₈ N ₂
1-Octanethiol	C ₈ H ₁₆ S	Phenylhydrazine	C ₆ H ₈ N ₂
Octanol	C ₈ H ₁₈ O	3-Phenyl-5-phenoxyethyl-2-N-phenyl-iminoxazolidine	C ₂₂ H ₂₀ N ₂ O ₂
1-Octanol	C ₈ H ₁₈ O	3-Phenyl-5-phenoxyethyl-2-oxazolidinone	C ₁₆ H ₁₅ NO ₃
Octaphenylcyclotetrasiloxane	C ₄₈ H ₄₀ O ₄ Si ₄	N-Phenylphthalimide	C ₁₄ H ₁₁ NO ₃
Octa(vinylsilasesquioxane)	C ₁₆ H ₂₄ Si ₈ O ₁₂	Phenylpropionic acid	C ₉ H ₁₀ O ₂
4-Octyl-4'-heptyl- α -cyanostilbene	C ₂₀ H ₄₁ NO	<i>o</i> -Phenylene-pyrene picric acid	C ₂₈ H ₁₅ N ₃ O ₇
<i>n</i> -Octyl alcohol	C ₈ H ₁₈ O	Phenyltrichlorogermane	C ₆ H ₅ Cl ₃ Ge
<i>n</i> -Octyl mercaptan	C ₈ H ₁₆ S	Phenyltrichlorostannane	C ₆ H ₅ Cl ₃ Sn
<i>n</i> -Octyl methacrylate	C ₁₂ H ₂₂ O ₂	Phenyl- <i>o</i> -tolylmethane	C ₁₄ H ₁₄
Octylcyanobiphenyl	C ₂₁ H ₂₅ N	Phenylurea	C ₇ H ₈ N ₂ O
Oenanthal	C ₇ H ₁₄ O	Phosphaferrocene	C ₉ H ₉ FeP
Oligoethylene butylene glycol adipate	C ₁₂ H ₂₂ O ₆	Phthalanilic acid	C ₁₄ H ₉ NO ₂
Orcinol monohydrate	C ₇ H ₈ O ₂ ·H ₂ O	Phthalic anhydride	C ₈ H ₄ O ₃
2-Oxadodecane	C ₁₁ H ₂₄ O	Phthalonitrile and <i>m</i> -phenylene diamine condensation product	C ₂₈ H ₁₈ N ₆
2-Oxahexane	C ₅ H ₁₂ O	<i>o</i> -Phthalonitrile	C ₈ H ₄ N ₂
3-Oxahexane	C ₅ H ₁₂ O	Phytone	C ₁₈ H ₃₆ O
Oxalyl fluoride	C ₂ F ₂ O ₂	Picene picric acid	C ₂₈ H ₁₇ N ₃ O ₇
2-Oxapentane	C ₄ H ₁₀ O	α -Picoline	C ₆ H ₇ N
Oxolane	C ₄ H ₈ O	Picric acid	C ₆ H ₃ N ₃ O ₇
μ_3 -Oxo-tris(pyridine)hexakis(acetato)iron(II)-diiron monopyridine	C ₃₂ H ₃₈ Fe ₃ N ₄ O ₁₅	Piperazine	C ₄ H ₁₀ N ₂
		Piperidine	C ₅ H ₁₁ N
		α -Piperidone	C ₅ H ₉ NO
P		Pival aldehyde	C ₅ H ₁₀ O
2,2-Paracyclophane	C ₁₆ H ₁₆	Polyacetylene	(CH) _n
Pelargonaldehyde	C ₉ H ₁₈ O	Polybenzimidazoloquinazole	(C ₃₄ H ₁₈ N ₆ O) _n
<i>n</i> -Pentacosane	C ₂₅ H ₅₂	Poly(2,2-bis-(4-phenoxypropane) 2,4,6-triazine	(C ₁₇ H ₁₄ N ₂) _n
<i>n</i> -Pentadecane	C ₁₅ H ₃₂	<i>cis</i> -1,4-Polybutadiene	(C ₄ H ₆) _n
Pentaerythritol	C ₅ H ₁₂ O ₄	<i>trans</i> -1,4-Polybutadiene	(C ₄ H ₆) _n
2,2,4,4,6,6-Pentamethylheptane	C ₁₂ H ₂₆	Polybutylene glycol adipate	(C ₁₀ H ₁₆ O ₄) _n
<i>n</i> -Pentanal	C ₅ H ₁₀ O	Poly(butylene terephthalate)	(C ₁₂ H ₁₂ O ₄) _n
1-Pentanol	C ₅ H ₁₂ O	Poly- ϵ -caprolactam	(C ₆ H ₁₁ NO) _n
<i>tert</i> -Pentanol	C ₅ H ₁₂ O	Poly- ϵ -caprolactone	(C ₆ H ₁₀ O ₂) _n
2-Pentanone	C ₅ H ₁₀ O	Polycyanate	(C ₁₇ H ₁₄ N ₂ O ₂) _n
3-Pentanone	C ₅ H ₁₀ O	Poly(diethylsiloxane)	(C ₄ H ₁₀ OSi) _n
Pentapropylene glycol	C ₁₅ H ₃₂ O ₆	Poly-1,1-diethynyl-2,3,4,5-tetraphenyl-1-germacyclopentadiene	(C ₃₂ H ₂₂ Ge) _n
1-Pentene	C ₅ H ₁₀	Poly-4,4'-dihydroxy-3,3'-isophthalamidodiphenylmethane	(C ₂₁ H ₁₆ N ₂ O ₄) _n
<i>cis</i> -2-Pentene	C ₅ H ₁₀	Poly(dimethylsiloxane)	(C ₂ H ₆ OSi) _n
<i>trans</i> -2-Pentene	C ₅ H ₁₀	Poly-1,3-dioxolan	(C ₃ H ₆ O ₂) _n
<i>n</i> -Pentyl alcohol	C ₅ H ₁₂ O	Polydiphenyldiethynylgermanium	(C ₁₆ H ₁₀ Ge) _n
<i>tert</i> -Pentyl alcohol	C ₅ H ₁₂ O		
Pentyl butanoate	C ₉ H ₁₈ O ₂		
Pentyl propionate	C ₈ H ₁₆ O ₂		

Polydiphenyldiethynylgermanium	(C ₁₆ H ₁₀ Ge) _n	β-Propiolactone	C ₃ H ₄ O ₂
Poly(<i>p,p'</i> -diphenylene oxide)		Propionic acid	C ₃ H ₆ O ₂
pyromellitimide	C ₂₂ H ₁₄ N ₂ O ₇	4-Propionyl-4'- <i>n</i> -butanoyloxyazobenzene	C ₁₆ H ₂₀ N ₂ O ₃
Poly(<i>p,p'</i> -diphenylenephthalido)hydrazide	(C ₃₀ H ₂₀ N ₄ O ₆) _n	4-Propionyl-4'- <i>n</i> -decanoyloxyazobenzene	C ₂₅ H ₃₂ N ₂ O ₃
Poly(<i>p,p'</i> -diphenylenephthalido)-1,3,4-oxadiazole	(C ₃₀ H ₁₆ N ₄ O ₄) _n	4-Propionyl-4'- <i>n</i> -dodecanoyloxyazobenzene	C ₂₇ H ₃₆ N ₂ O ₃
Polyethylene	(CH ₂) _n	4-Propionyl-4'- <i>n</i> -heptadecanoyloxyazobenzene	C ₃₂ H ₄₆ N ₂ O ₃
Polyethylene glycol	(C ₂ H ₄ O) _n	4-Propionyl-4'- <i>n</i> -heptanoyloxyazobenzene	C ₂₂ H ₂₆ N ₂ O ₃
Polyethylene oxalate	(C ₄ H ₄ O ₄) _n	4-Propionyl-4'- <i>n</i> -hexadecanoyloxyazobenzene	C ₃₁ H ₄₄ N ₂ O ₃
Polyglycine I	(C ₂ H ₃ NO) _n	4-Propionyl-4'- <i>n</i> -hexanoyloxyazobenzene	C ₂₁ H ₂₄ N ₂ O ₃
Polyglycine II	(C ₂ H ₃ NO) _n	4-Propionyl-4'- <i>n</i> -nonanoyloxyazobenzene	C ₂₄ H ₃₀ N ₂ O ₃
Polyglycolide	(C ₄ H ₄ O ₄) _n	4-Propionyl-4'- <i>n</i> -octadecanoyloxyazobenzene	C ₃₃ H ₄₈ N ₂ O ₃
Poly(hexamethylene sebacate)	(C ₃₈ H ₇₀ O ₈) _n	4-Propionyl-4'- <i>n</i> -octanoyloxyazobenzene	C ₂₃ H ₂₈ N ₂ O ₃
1-Polyhexene	(C ₆ H ₁₂) _n	4-Propionyl-4'- <i>n</i> -pentadecanoyloxyazobenzene	C ₃₀ H ₄₂ N ₂ O ₃
Polyisobutylene	(C ₄ H ₈) _n	4-Propionyl-4'- <i>n</i> -tetradecanoyloxyazobenzene	C ₂₉ H ₄₀ N ₂ O ₃
Polyisocyanurate	(C ₁₅ H ₁₀ N ₂ O ₂) _n	4-Propionyl-4'- <i>n</i> -tridecanoyloxyazobenzene	C ₂₈ H ₃₈ N ₂ O ₃
Polymethacrylic acid	(C ₄ H ₆ O ₂) _n	4-Propionyl-4'- <i>n</i> -undecanoyloxyazobenzene	C ₂₆ H ₃₄ N ₂ O ₃
Poly- <i>p</i> -methacryloyloxybenzoic acid	(C ₁₁ H ₁₀ O ₄) _n	<i>n</i> -Propyl acetate	C ₅ H ₁₀ O ₂
Poly(methyl methacrylate)	(C ₅ H ₈ O ₂) _n	<i>n</i> -Propyl alcohol	C ₃ H ₈ O
Poly(α-methylstyrene)	(C ₉ H ₁₀) _n	Propyl ethanoate	C ₅ H ₁₀ O ₂
Polyoctenylene	(C ₈ H ₁₄) _n	Propyl formate	C ₄ H ₈ O ₂
Polypentenamer	(C ₅ H ₈) _n	Propyl methanoate	C ₄ H ₈ O ₂
<i>cis</i> -Polypentenamer	(C ₅ H ₈) _n	<i>n</i> -Propyl methyl ketone	C ₅ H ₁₀ O
<i>trans</i> -Polypentenamer	(C ₅ H ₈) _n	<i>n</i> -Propyl propanoate	C ₆ H ₁₂ O ₂
Polyphenylene PP-1	C _{20.84} H _{16.66} O _{0.62}	Propyl propionate	C ₆ H ₁₂ O ₂
Polyphenylene PP-2	C _{20.84} H _{16.66} O _{0.62}	Propyl urea	C ₄ H ₁₀ N ₂ O
Poly-2,2'- <i>m</i> -phenylene)-5,5'-dibenzoxazole methane	(C ₂₁ H ₁₂ N ₂ O ₂) _n	Propyldiammonium cadmium tetrachloride	C ₃ H ₁₂ CdCl ₄ N ₂
Poly-[2,2'-(<i>p</i> -phenylene-1,1-diphenyl-5,5'-dibenzimidazole)]	(C ₃₂ H ₂₀ N ₄) _n	Propyldiammonium manganese tetrachloride	C ₃ H ₁₂ Cl ₄ MnN ₂
Poly[2,2'-(1,4-phenylene)-7,7'-oxy-bis(3-phenylquinoxaline)]	C ₃₄ H ₂₀ N ₄ O	Propylene carbonate	C ₄ H ₆ O ₃
Polypropylene, isotactic, amorphous	(C ₃ H ₆) _n	Propylene glycol	C ₃ H ₈ O ₂
Polypropylene, isotactic, crystalline	(C ₃ H ₆) _n	Propylene oxide clathrate hydrate	C ₃ H ₆ O·17H ₂ O
Poly-[N-terphthalyl-bis-(N'-phenyl- <i>o</i> -diphenylamine)]	(C ₃₂ H ₂₄ N ₄ O ₂) _n	Propylene oxide	C ₃ H ₆ O
Polystyrene	(C ₈ H ₈) _n	Propylene	C ₃ H ₆
Polystyrene- <i>d</i> ₃	(C ₈ H ₅ D ₃) _n	Pyrazole	C ₃ H ₄ N ₂
Polystyrene- <i>d</i> ₅	(C ₈ H ₃ D ₅) _n	Pyrene picric acid	C ₂₂ H ₁₇ N ₃ O ₇
Polystyrene- <i>d</i> ₈	(C ₈ D ₈) _n	Pyrocatechin	C ₆ H ₆ O ₂
Polystyrene-Polystyrene- <i>d</i> ₈	(C ₁₆ H ₈ D ₈) _n	Pyromellitic dianhydride	C ₁₀ H ₂ O ₆
Polytetrahydrofuran	(C ₄ H ₈ O) _n	α-Pyrrolidone	C ₄ H ₇ NO
Polythene	(CH ₂) _n	Pyrrolyl manganese tricarbonyl	C ₇ H ₄ MnNO ₃
Polytriazine	(C ₂₄ H ₁₂ N ₆) _n		
Poly(tridecanolactone)	(C ₁₃ H ₂₄ O ₂) _n	Q	
Poly-N-(β-trimethylsilylethyl)azetidide	(C ₈ H ₁₉ NSi) _n	Quadricyclane	C ₇ H ₈
Poly-N-(β-trimethylsilylethyl)ethylenimine	(C ₇ H ₁₇ NSi) _n	<i>p</i> -Quaterphenyl	C ₂₄ H ₁₈
Polyvinyl alcohol	(C ₂ H ₄ O) _n	Quinoline	C ₉ H ₇ N
Polyvinyl chloride	(C ₂ H ₃ Cl) _n	<i>p</i> -Quinquephenyl	C ₃₀ H ₂₂
Polyvinyl dimethylbenzylsilane	(C ₁₁ H ₁₆ Si) _n		
Polyvinyl dimethylphenylsilane	(C ₁₀ H ₁₄ Si) _n	R	
Polyvinyl enediphenylsilyl,germyl-α,ω-dihydride copolymer	(C ₂₈ H ₂₄ GeSi) _n	Resorcin	C ₆ H ₆ O
Polyvinyl enediphenylgermyl-α,ω-dihydride	(C ₁₄ H ₁₂ Ge) _n	Resorcinol	C ₆ H ₆ O ₂
Polyvinyl enediphenylsilyl-α,ω-dihydride	(C ₁₄ H ₁₂ Si) _n	Ribose(D)	C ₅ H ₁₀ O ₅
Polyvinylidene chloride	(C ₂ H ₂ Cl ₂) _n	Rochelle salt	C ₁₂ H ₄ KNaO ₆ ·4H ₂ O
Polyvinyltrimethylsilane	(C ₃ H ₁₂ Si) _n	Rubidium tetraphenyl boron	C ₃ H ₂₀ BRb
Potassium butyrate	C ₄ H ₇ KO ₂	Ruthenocene	C ₁₀ H ₁₀ Ru
Potassium 2-methylpropanoate	C ₄ H ₇ KO ₂		
Potassium propionate	C ₃ H ₅ KO ₂	S	
Potassium tetraphenyl boron	C ₂₄ H ₂₀ BK	β-Selenodiglycol	C ₄ H ₁₀ O ₂ Se
Propaldehyde	C ₃ H ₆ O	Selenophene chromium tricarbonyl	C ₇ H ₄ CrO ₃ Se
Propanal	C ₃ H ₆ O	Semicarbazide	CH ₅ N ₃ O
<i>n</i> -Propane	C ₃ H ₈	Silver phenylacetylenide	C ₈ H ₅ Ag
1,2-Propanediol	C ₃ H ₈ O ₂	Sodium acetate	C ₂ H ₃ NaO ₂
1,2,3-Propanetriol	C ₃ H ₈ O ₃	Sodium acetate trihydrate	C ₂ H ₃ NaO ₂ ·3H ₂ O
Propanoic acid	C ₃ H ₆ O ₂		
1-Propanol	C ₃ H ₈ O		
Propene	C ₃ H ₆		

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- 89KIR/CHU Kirklin, D. R., Churney, K. L., and Domalski, E. S., Enthalpy of combustion of 1,4-dimethylcubane dicarboxylate, *J. Chem. Thermodynam.* **21**, 1105-1113 (1989).
- 89LAB/LOP Labban, A. K., Lópes de la Fuente, F. L., Cheda, J. A. R., Westrum, E. F., Jr., and Fernández-Martin, F., Thermodynamics of thallium alkanoates. VI. Thallium(I) *n*-heptanoate revisited, *J. Chem. Thermodynam.* **21**, 375-384 (1989).
- 89LEB/SMI Lebedev, B. V., and Smirnova, N. N., Thermodynamics of *cis*-cycloheptene at 0-310 K, *Zhur. Fiz. Khim.* **63**, 1444-1450 (1989).
- 89RAB/NIS Rabinovich, I. B., Nistratov, V. P., Sheiman, M. S., Klimov, K. N., Kamelov, G. P., and Zorin, A. D., Specific heat and thermodynamic functions of triethylaluminium, *Zhur. Fiz. Khim.* **63**, 522-525 (1989).
- 89RAB/NIS2 Rabinovich, I. B., Nistratov, V. P., Sheiman, M. S., Karataev, E. N., Kamelova, G. P., and Feshchenko, I. A., Heat capacity, phase transitions, and thermodynamic functions of tetraethyllead, *Zhur. Fiz. Khim.* **63**, 2520-2524 (1989).
- 89SHE/RAB Sheiman, M. S., Rabinovich, I. B., Nistratov, V. P., Kamelova, G. P., Karataev, E. N., and Feshchenko, I. A., Specific heat and thermodynamic characteristics of tetramethylstanane, *Zhur. Fiz. Khim.* **63**, 836-838 (1989).
- 89STE/CHI Steele, W. V., Chirico, R. D., Hossenlopp, I. A., Nguyen, A., Smith, N. K., and Gammon, B. E., The thermodynamic properties of five benzoquinolines, *J. Chem. Thermodynam.* **21**, 81-107 (1989).
- 89STE/CHI2 Steele, W. V., Chirico, R. D., Hossenlopp, I. A., Nguyen, A., Smith, N. K., and Gammon, B. E., The thermodynamic properties of 1,2,3,4- and 5,6,7,8-tetrahydroquinoline, *J. Chem. Thermodynam.* **21**, 1121-1149 (1989).
- 89VES/BAR Vesely, F., Barcal, P., Zabransky, M., and Svoboda, V., Heat capacities of 4-methyl-2-pentanone, 2,6-dimethyl-4-heptanone, 1-hexanol, 1-heptanol, and 1-octanol in the temperature range 298-318 K, *Collect. Czech. Chem. Commun.* **54**, 602-607 (1989).
- 89YOS/SOR Yoshikawa, M., Sorai, M., and Suga, H., Heat capacity of a five-coordinated iron (III) complex with spin 3/2, bromobis(N,N-dimethylcarbamato) iron (III), between 0.4 and 300 K: new finding of a magnetic phase transition, *J. Phys. Chem. Solids* **50**, 713-722 (1989).
- 89ZHA/YAN Zhang, Z. Y., and Yang, M. L., Heat capacities and phase transitions of 1,1,1-trihydroxymethylpropane and pentaerythritol over the superambient temperature range, *Thermochim. Acta* **156**, 157-161 (1989).

10. Appendix: Errata for "Heat Capacities and Entropies of Organic Compounds in the Condensed Phase"

[J. Phys. & Chem. Ref. Data 13, Suppl. No.1, 286 pp. (1984)]

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The errata are arranged in the format shown below and are listed as found according to successive pages in the 1984 publication, J. Phys. Chem. Ref. Data 13, Suppl. 1 (1984). After the page number for a specific erratum, which is shown on the extreme left side of the first line, information is provided regarding its location

on a given page, such as: compound formula, compound name, reference squib, or other pertinent information. On the second line, the erratum appears as found in the publication. On the third line, one finds the correction. The last line offers a comment or explanation about the erratum.

Errata Format	
Page	Formula/Name/Reference/Text
Incorrect	(as it appears)
Correct	(as it should be)
[comment regarding error]	

Specific Errata

6	5. Definitions , 3rd paragraph, lines 3 and 4		
Incorrect	...and is referred to the midpoint of ...		
	... $C_p = \Delta H / (T_2 - T_1), (T_2 - T_1) / 2$.		
Correct	...and is referred to as the midpoint of ...		
	... $C_p = \Delta H / (T_2 - T_1), (T_1 + T_2) / 2$.		
[missing word and formula error]			
10	C Graphite		80TAY/GRO
Incorrect	Wiswesser Line Notation ...		
Correct	Wiswesser Line Notation C		
[WLN absent]			
11	CCl ₃ F Fluorotrichloromethane		40BEN/MCH
Incorrect	Wiswesser Line Notation GYGGF		
Correct	Wiswesser Line Notation GXGGF		
[WLN error]			
14	CHCl ₂ F Dichlorofluoromethane		40BEN/MCH
	$C_p = 112.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$		
[C_p value in $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ repeated]			
24	C ₂ Br ₂ F ₄ 1,2-Dibromotetrafluoroethane		82KOS/ZHO
Incorrect WLN	FXFFEXFFE		
Correct WLN	FXFEXFFE		
[WLN error]			
32	(C ₂ H ₃ NO) _n Polyglycine I		81FIN/KUM
Incorrect molecular weight	75.0670		
Correct molecular weight	57.0518		
[numerical error]			
32	(C ₂ H ₃ NO) _n Polyglycine II		81FIN/KUM
Incorrect molecular weight	75.0670		
Correct molecular weight	57.0518		
[numerical error]			

33	C ₂ H ₄ Br ₂ 1,2-Dibromoethane		40PIT 2
Incorrect	Phase Changes...c/I/liq...		
Correct	Phase Changes...c,I/liq...		
[typographical error]			
42	C ₂ H ₁₂ CdCl ₄ N ₂ Tetrachlorobis-(methylammonium) cadmium II		81RAH/CLA
Incorrect WLN	CD ZI&2 G4		
Correct WLN	ZH&1 2 -CD- G4		
[WLN error]			
42	C ₂ H ₁₂ Cl ₄ MnN ₂ Tetrachloro-(methylammonium) manganese II		82WHI/GRA
Incorrect WLN	MN Z1&2 G4		
Correct WLN	ZH&1 2 -MN- G4		
[WLN error]			
43	C ₂₂ H _{6.5} N ₂ O Urea-1-dodecene adduct		72GAN/PAR
Incorrect WLN	11U1 &ZVZ		
Incorrect molecular weight	77.8975		
Correct WLN	ZVZ &11U1 0.1060		
Correct molecular weight	76.9884		
Mole ratio of 1-dodecene to urea = 0.1060			
[WLN and molecular weight error]			
43	C ₂₂ H _{6.6} N ₂ O Urea- <i>n</i> -undecane adduct		69COP/PAR
Incorrect WLN	ZVZ &11H		
Incorrect molecular weight	77.2496		
Correct WLN	ZVZ &11H 0.1104		
Correct molecular weight	77.0892		
Mole ratio of <i>n</i> -undecane to urea = 0.1104			
[WLN and molecular weight error]			
43	C ₂₃ H _{6.7} N ₂ O Urea-1-hexadecene adduct		69COP/PAR
Incorrect WLN	15U1 &ZVZ		
Incorrect molecular weight	79.3563		
Correct WLN	ZVZ &15U1 0.0860		
Correct molecular weight	78.3911		
Mole ratio of 1-hexadecene to urea = 0.0860			
[WLN and molecular weight error]			

44	$C_{2.3}H_{6.7}N_2O$	Urea-1-decene adduct	69COP/PAR
	Incorrect WLN	ZVZ & 9U1	
	Incorrect molecular weight	79.2721	
	Correct WLN	ZVZ & 9U1	0.1370
	Correct molecular weight	78.3911	
	Mole ratio of 1-decene to urea =	0.1370	
	[WLN and molecular weight error]		
44	$C_{2.4}H_{6.8}N_2O$	Urea-1-octadecene adduct	72GAN/PAR
	Incorrect WLN	17U1 & ZVZ	
	Incorrect molecular weight	79.8893	
	Correct WLN	ZVZ & 17U1	0.0785
	Correct molecular weight	79.6930	
	Mole ratio of 1-octadecene to urea =	0.0785	
	[WLN and molecular weight error]		
44	$C_{2.4}H_{6.8}N_2O$	Urea-1-eicosene adduct	69COP/PAR
	Incorrect WLN	19U1 & ZVZ	
	Incorrect molecular weight	79.6929	
	Correct WLN	ZVZ & 19U1	0.0704
	Correct molecular weight	79.6930	
	Mole ratio of 1-eicosene to urea =	0.0704	
	[WLN and molecular weight error]		
44	$C_{2.4}H_{6.9}N_2O$ (c)	Urea-1-tetradecene adduct; 1-Tetradecene-urea adduct	72GAN/PAR
	Heat Capacity	298.15 K	$C_p = 30.9 \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $129.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	Temperature range	12–300 K.	Values for one mole urea in adduct.
	Entropy	298.15 K,	$S = 34.7 \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $145.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	Does not include possible zero-point entropy.		
	Phase Changes		
	Anomalous region 225–235 K, with $\Delta H = 15 \text{ J}\cdot\text{mol}^{-1}$ (urea) and $\Delta S = 0.067 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$.		
	c,II/c,I	256.6 K	$\Delta H = 868.5 \text{ cal}\cdot\text{mol}^{-1}$ $3634 \text{ J}\cdot\text{mol}^{-1}$ $\Delta S = 2.9 \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ $12.0 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$
	Molecular Weight	80.0660	
	Wiswesser Line Notation	ZVZ & 13U1	0.1019
	Evaluation	B	
	[Data in 72GAN/PAR omitted from tables]		
45	$C_3H_2N_2$	Malononitrile	68WES/WUL
	Incorrect Reference	68WES/WUL	
	Correct Reference	68GIR/WES	
	[Incorrect reference citation; see also erratum for page 278]		
52	C_3H_6O	3-Propenol; Allyl alcohol	81REI
	Incorrect	3-Propen-1-ol	
	Incorrect WLN	Q1U2	
	Correct	2-Propen-1-ol	
	Correct WLN	Q2U1	
	[nomenclature and WLN error]		
54	C_3H_7NO	N,N-Dimethylmethanamide	66GEL
	Incorrect	66GEL	
	Correct	61GEL	
	[reference error; see also erratum on page 277]		
55	$C_3H_7NO_2$	2-Aminopropanoic acid (L)	75DAU/DEL
	Incorrect WLN	ZYVQ -L	
	Correct WLN	ZY1&VQ -L	
	[WLN error]		
66	$C_4H_6KNaO_6\cdot 4H_2O$	Sodium potassium tartrate tetrahydrate	78TAT/MAT
	Incorrect	$C_4H_6KNaO_6\cdot 4H_2O$	
	Incorrect Molecular Weight	284.2367	
	Correct	$C_4H_6KNaO_6\cdot 4H_2O$	
	Correct Molecular Weight	282.2209	
	[formula and molecular weight error]		
68	$C_4H_7NO_4$	Aminosuccinic acid (L); Aspartic acid (L)	63HUT/COL 2
	Incorrect WLN	ZVYZ1VQ -L	
	Correct WLN	QVYZ1VQ -L	
	[typographical error]		
71	C_4H_8O	Butanal; n-Butyraldehyde	56PAR/KEN
	Incorrect	n-Butyraldehyde	
	Correct	n-Butyraldehyde	
	[spelling error]		
76	C_4H_{10}	Butane	40AST/MES
	Incorrect	$C_p = 13242 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
	Correct	$C_p = 132.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$	
	[decimal point omitted]		
83	$C_4H_{12}Pb$	Tetramethyllead	59GOO/SCO
	Incorrect phase	(c)	
	Correct phase	(liq)	
	[$T_m = 242.9 \text{ K}$, hence, at 298.15 K, data for C_p and S for $C_4H_{12}Pb$ are for the liquid]		
	Incorrect entropy temperature	298.16 K	
	Correct entropy temperature	298.15 K	
	[transcription errors]		
87	$C_5H_7N_2O_2$	Thymine	73ALV/BIL
	Incorrect formula	$C_5H_7N_2O_2$	
	Incorrect molecular weight	127.1225	
	Correct formula	$C_5H_6N_2O_2$	
	Correct molecular weight	126.1146	
	[formula and molecular weight error]		
87	$CH_7N_2O_2$	Thymine	78KIL2
	Incorrect formula	$C_5H_7N_2O_2$	
	Incorrect molecular weight	127.1225	
	Correct formula	$C_5H_6N_2O_2$	
	Correct molecular weight	126.1146	
	[formula and molecular weight error]		
91	$C_5H_8O_2$	Ethenyl ethanoate; Allyl acetate	81REI
	Incorrect	Ethenyl ethanoate	
	Correct	2-Propenyl ethanoate	
	[nomenclature error]		
91	$(C_5H_8O_2)_n$	Polymethylmethacrylate	58SOC/TRA
	Incorrect WLN	/*X1&*VO1/	
	Correct WLN	/*X1*1&VO1/	
	[WLN error]		
93	C_5H_{10}	1-Pentene	30PAR/HUF 2
	Incorrect	1-Pentene	
	Incorrect WLN	4U1	
	Correct	2-Pentene	
	Correct WLN	3U2	
	[30PAR/HUF 2 measured 2-Pentene, liquid]		
101	$C_5H_{12}O$	2,2-Dimethyl-1-propanol; tert-Amyl alcohol	33PAR/HUF
	Incorrect	2,2-Dimethyl-1-propanol; tert-Amyl alcohol	
	Incorrect WLN	Q1X1&1&1	
	Correct	2-Methyl-2-butanol; tert-Amyl alcohol	
	Correct WLN	QX1&1&2	
	[nomenclature and WLN errors]		

103	C ₃ H ₁₂ S	2-Methyl-2-butanethiol; tert-Amyl mercaptan	74MES/FIN
Incorrect		2-Methyl-2-butanethiol; tert-Amyl mercaptan.....	
Correct		3-Methyl-2-butanethiol	
		[nomenclature error; 74MES/FIN measured six mercaptans among which were both 3-methyl-1-butanethiol and 3-methyl-2-butanethiol]	
104	C ₃ H ₁₄ N ₂	N,N-Dimethyl-1,3-propanediamine	82DZH/KAR2
Incorrect	Molecular weight	130.1924	
Incorrect	WLN	Z3NI&1	
Correct	Molecular weight	102.1790	
Correct	WLN	Z3N1&1	
		[Molecular weight and WLN errors]	
108	C ₆ H ₃ N ₃ O ₆	1,3,5-Trinitrobenzene	80RAD/RAD
Incorrect	Molecular weight	181.4487	
Correct	Molecular weight	213.1064	
		[Molecular weight error]	
108	C ₆ H ₃ N ₃ O ₇	2,4,6-Trinitrophenol; Picric acid	24TAY/RIN
Incorrect	C _p =	57.3 cal·mol ⁻¹ ·K ⁻¹ 223.9 J·mol ⁻¹ ·K ⁻¹	
Correct	C _p =	57.3 cal·mol ⁻¹ ·K ⁻¹ 239.7 J·mol ⁻¹ ·K ⁻¹	
		[numerical error]	
110	C ₆ H ₄ O ₃	Phthalic anhydride	36PAR/TOD
Incorrect	C ₆ H ₄ O ₃		
Incorrect	Molecular Weight	124.0958	
Correct	C ₈ H ₄ O ₃		
Correct	Molecular Weight	148.1178	
110	C ₆ H ₅ Br	Bromobenzene	81REI
Incorrect	WLN	BR	
Correct	WLN	ER	
		[WLN error]	
116	C ₆ H ₆ N ₂ O ₂	3-Nitroaniline	26AND/LYN
Incorrect (c/liq) temperature		285.0 K	
Correct (c/liq) temperature		385.0 K	
		[temperature error]	
129	C ₆ H ₁₂ S	Cyclohexanethiol; Cyclohexyl mercaptan	67MES/TOD
Incorrect	C _p =	6.04 cal·mol ⁻¹ ·K ⁻¹	
Correct	C _p =	46.04 cal·mol ⁻¹ ·K ⁻¹	
		[numerical error]	
130	C ₆ H ₁₃ N ₃ O ₈ S	Triglycine sulfate	68AGU/TEL
Incorrect formula		C ₆ H ₁₃ N ₃ O ₈ S	
Incorrect Mol. Wt.		287.2440	
Incorrect WLN		Z1VM1VM1VQ & WSQQ	
Correct formula		C ₆ H ₁₇ N ₃ O ₁₀ S	
Correct Mol. Wt.		323.2804	
Correct WLN		Z1VQ 3 & WSQQ	
		[error in formula, molecular weight, and WLN]	
131	C ₆ H ₁₃ N ₃ O ₈ S	Triglycine sulfate	80RAM/CER
Incorrect	C _p =	90.6 cal·mol ⁻¹ ·K ⁻¹ 379.1 J·mol ⁻¹ ·K ⁻¹	
Incorrect	formula	C ₆ H ₁₃ N ₃ O ₈ S	
Incorrect	Mol. Wt.	287.2440	
Incorrect	WLN	Z1VM1VM1VQ & WSQQ	
Correct	C _p =	102.0 cal·mol ⁻¹ ·K ⁻¹ 426.7 J·mol ⁻¹ ·K ⁻¹	
Correct	formula	C ₆ H ₁₇ N ₃ O ₁₀ S	
Correct	Mol. Wt.	323.2804	
Correct	WLN	Z1VQ 3 & WSQQ	
		[error in C _p , formula, molecular weight, and WLN]	
136	C ₆ H ₁₅ In	Triethylindium	73MAS/NOV
		[Data entry appears twice]	
136	C ₆ H ₁₆ CdCl ₄ N ₂	Tetrachlorobis-(2-propeneammonium) cadmium II	82WHI/STA
Incorrect	WLN	CD Z2U1&2 G4	
Correct	WLN	Z2U1 2 -CD- G4	
		[WLN error]	
137	C ₆ H ₂₀ CdCl ₄ N ₂	Tetrachlorobis-(<i>n</i> -propylammonium) cadmium II	81WHI/GRA
Incorrect WLN		CD Z3&2 G4	
Correct WLN		Z3H 2 -CD- G4	
		[WLN error]	
137	C ₆ H ₂₀ Cl ₄ MnN ₂	Tetrachlorobis-(<i>n</i> -propylammonium) manganese II	81WHI/GRA
Incorrect WLN		MN Z3&2 G4	
Correct WLN		Z3H 2 -MN- G4	
		[WLN error]	
141	C ₇ H ₆ O ₂	Benzoic acid	53GIN/FUR
Incorrect temperature range		14-570 K	
Correct temperature range		14-410 K	
		[numerical error]	
157	C ₈ F ₁₆	Perfluorodimethylcyclohexane	57YAR/KAY
Incorrect WLN		L6TJ AXFFF AF BF CF DF EF FF XXFFF XF	
Correct WLN		L6TJ AXFFF AF BF CF DF EF FF XXFFF XF XF XF XF	
		[WLN error]	
158	C ₈ H ₈	Styrene	50KUR
Incorrect	C _p =	23.56 J·mol ⁻¹ ·K ⁻¹	
Correct	C _p =	235.6 J·mol ⁻¹ ·K ⁻¹	
		[numerical error]	
165	C ₈ H ₁₂	Cycloocta-1,5-diene	75LEB/TSV
		[75LEB/TSV absent from bibliography; see erratum for page 282]	

173 C₈H₁₈O 2-Methyl-1-heptanol 31CLI/AND
 Incorrect WLN QY5&1
 Correct WLN Q1Y5&1
 [WLN error]

179 C₉H₁₄O₂ Glyceryl triacetate 79FUC
 Incorrect C₉H₁₄O₂
 Incorrect Molecular Weight 154.2084
 Correct C₉H₁₄O₆
 Correct Molecular Weight 218.2060
 [formula and molecular weight error]

191 C₁₀H₂₀ Diethylcyclohexane 63GUD/CAM
 Incorrect C_p = 62.2 cal·mol⁻¹·K⁻¹
 Incorrect temperature range 313-424 K
 Correct C_p = 62.6 cal·mol⁻¹·K⁻¹
 Correct temperature range 313-423 K
 [numerical errors]

197 C₁₁H₂₆N₂O Urea-*n*-decane adduct 65PEM/PAR
 Incorrect spelling Value of aduct with...
 Incorrect formula C₁₁H₂₆N₂O
 Incorrect molecular weight 202.3392
 Incorrect WLN ZVZ &10H
 Correct spelling Value of aduct with...
 Correct formula C₂₁H₄₆N₂O
 Correct molecular weight 75.7876
 Correct WLN ZVZ 10H 0.1149
 Mole ratio of *n*-decane to urea = 0.1149
 [spelling, formula, molecular weight, and WLN errors]

199 C₁₂H₉N (c) Carbazole 80RAD/RAD
 Heat Capacity 298.15 K C_p = 45.6 cal·mol⁻¹·K⁻¹
 190.8 J·mol⁻¹·K⁻¹

Temperature range 180-410 K

$$C_p = 54.87 + 0.2328T + 7.477 \times 10^{-4}T^2$$

Phase Changes

$$c/\text{liq} \quad 521.1 \text{ K} \quad \Delta H = 6501 \text{ cal}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$$

$$27200 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$$

Molecular Weight 167.2098
 Wiswesser Line Notation T B656 HMJ
 Evaluation B

[Carbazole is in the name-formula index and bibliography, but not in the table of data for C_p, S, and phase changes. Data for carbazole should appear after data for C₁₂H₉Cl₃Si, *p*-Trichlorosilylbiphenyl]

203 C₁₂H₂₀O Tetracyclo[6.2.1.1^{3,6}]dodecane 62GOL/BEL
 Incorrect Tetracyclo[6.2.1.1^{3,6}]dodecane
 Incorrect WLN L D595 A D-TJ
 Correct Tricyclo[6.2.1.1^{3,6}]dodecane
 Correct WLN L59 D5 A D-TJ
 [nomenclature error, also in 62GOL/BEL]

204 C₁₂H₂₂O₂ Dimethoxydecalin 63GUD/CAM
 Incorrect C₁₂H₂₂O₂ Dimethoxydecalin
 Incorrect Molecular Weight 198.3046
 Incorrect WLN L66TJ XO1 XO1
 Correct C₁₂H₁₈ Dimethanodecalin
 Correct Molecular Weight 162.2742
 Correct WLN L D5 C555 A D-TJ
 [errors in formula, name, molecular weight, and WLN]

209 C₁₃H₃₀N₂O Urea-*n*-dodecane adduct 65PEM/PAR
 Incorrect spelling Value of aduct with...
 Incorrect formula C₁₃H₃₀N₂O
 Incorrect molecular weight 230.3928
 Incorrect WLN ZVZ &12H
 Correct spelling Value of aduct with...
 Correct formula C₂₂H₄₆N₂O
 Correct mol. wt. 76.7871

Correct WLN ZVZ &12H 0.09714
 Mole ratio of *n*-dodecane to urea = 0.09714
 [spelling, formula, molecular weight, and WLN errors]

209 C₁₃H₃₀N₂O Urea-*n*-dodecane adduct 65PEM/PAR
 Incorrect spelling Value of aduct with...
 Incorrect formula C₁₃H₃₀N₂O
 Incorrect mol. wt. 230.3928
 Incorrect WLN ZVZ &12H
 Correct spelling Value of aduct with...
 Correct formula C₂₂H₄₆N₂O
 Correct mol. wt. 76.7871
 Correct WLN ZVZ &12H 0.09714
 Mole ratio of *n*-dodecane to urea = 0.09714
 [spelling, formula, molecular weight, and WLN errors]

211 C₁₄H₁₀O₂ Benzil; Diphenyl diketone 77DWO/FUC
 Incorrectdata given graphically only.
 Correctdata given graphically only.
 [space missing]

224 C₁₇H₃₈N₂O Urea-*n*-hexadecane adduct 65PEM/PAR
 Incorrect formula C₁₇H₃₈N₂O
 Incorrect mol. wt. 286.5000
 Incorrect WLN ZVZ &16H
 Correct formula C₂₃H₄₆N₂O
 Correct mol. wt. 78.3914
 Correct WLN ZVZ &16H 0.08057
 Mole ratio on *n*-hexadecane to urea = 0.08057
 [formula, molecular weight, and WLN errors]

224 C₁₈H₁₂ Naphthacene 80WON/WES
 [80WON/WES not in bibliography; see erratum for page 285]

229-230 C₁₉H₂₁ClNO *p*-*n*-Hexyloxybenzylideneamino-*p*'-chlorobenzene 77TSU/SOR
 Incorrect WLN GR DNU1UR DO6
 Correct WLN GR DNUYR DO6
 [WLN error]

231 C₂₀H₁₂ Perylene 80WON/WES
 [80WON/WES not in bibliography; see erratum for page 285]

232 C₂₀H₄₀Br₂N₂ 1,2-Bis(triallylammonium)ethane bromide 74BUR/VER
 [data entry out of place; should follow data entry for C₂₀H₃₈HgO₄ Mercuric decanoate 78ADE]

234 C₂₁H₄₆N₂O Urea-*n*-eicosane adduct 65PEM/PAR
 Incorrect spelling Value for aduct with...
 Incorrect formula C₂₁H₄₆N₂O
 Incorrect mol. wt. 342.6072
 Incorrect WLN ZVZ 20H
 Correct spelling Value for aduct with...
 Correct formula C₂₃H₄₆N₂O
 Correct mol. wt. 78.4922
 Correct WLN ZVZ &20H 0.06712
 Mole ratio of *n*-eicosane to urea = 0.06712
 [spelling, formula, molecular weight, and WLN errors]

236 C₂₄H₁₂ Coronene 80WON/WES
 [80WON/WES not in bibliography; see erratum for page 285]

245 C₃₈H₇₂O₄ Di-*n*-tetradecyl sebacate 76PHI/MAT
 Incorrect C₃₈H₇₂O₄
 Incorrect Molecular Weight 592.9844
 Correct C₃₈H₇₄O₄
 Correct Molecular Weight 595.0002
 [formula and molecular weight error]

245	C ₄₁ H ₇₂ O ₂	Cholesteryl myristate	67BAR/POR	260	8. Compound Name - Formula Index
Incorrect	...	temperature range 270-270 K		Incorrect	Sodium potassium tartrate tetrahydrate...
Correct	...	temperature range 270-370 K			...C ₄ H ₆ KNaO ₆ ·4H ₂ O
				Correct	Sodium potassium tartrate tetrahydrate...
					...C ₄ H ₄ KNaO ₆ ·4H ₂ O
					[numerical error]
246	C ₄₃ H ₂₆ N ₈ P	Methyltriphenylphosphonium-bis(7,7,8,8-tetracyanoquinodomethanide)	77KOS/SOR 2	261	8. Compound Name - Formula Index
Incorrect	Methyldiphenylphosphonium-bis(7,7,8,8-tetracyanoquinodomethanide)			Incorrect	Tetracyclo[6,2,1,1 ^{3,6}]dodecane...
Correct	Methyldiphenylphosphonium-bis(7,7,8,8-tetracyanoquinodimethanide)			Correct	Tricyclo[6.2.1.1 ^{3,6}]dodecane...
					[nomenclature error, relocate corrected name alphabetically]
250		8. Compound Name - Formula Index		262	8. Compound Name - Formula Index
Incorrect	n-Butyraldehyde...			Incorrect	C ₆ H ₁₃ N ₃ O ₈ S Triglycine sulfate
Correct	n-Butyraldehyde...			Correct	C ₆ H ₁₇ N ₃ O ₁₀ S Triglycine sulfate
					[formula error]
253		8. Compound Name - Formula Index		262	9. Compound Name - Formula Index
Incorrect	Dimethoxydecalin	.....	C ₁₂ H ₂₂ O ₂	Incorrect formula	Urea-n-decane adduct C ₁₁ H ₂₆ N ₂ O
Correct	Dimethanodecalin	.....	C ₁₂ H ₁₈	Incorrect formula	Urea-n-dodecane adduct C ₁₃ H ₃₀ N ₂ O
				Incorrect formula	Urea-n-eicosane adduct C ₂₁ H ₄₆ N ₂ O
				Incorrect formula	Urea-n-hexadecane adduct C ₇ H ₃₈ N ₂ O
				Correct formula	Urea-n-decane adduct C ₂₁ H ₄₆ N ₂ O
				Correct formula	Urea-n-dodecane adduct C ₂₂ H ₆₃ N ₂ O
				Correct formula	Urea-n-eicosane adduct C ₂₃ H ₆₈ N ₂ O
				Correct formula	Urea-n-hexadecane adduct C ₂₃ H ₆₇ N ₂ O
					[formula error]
253		8. Compound Name - Formula Index		262	8. Compound Name - Formula Index
Incorrect	2,2-Dimethyl-1-propanol	.....	C ₅ H ₁₂ O	Incorrect name	.....
Correct	.....			Correct name	Urea-1-tetradecene adduct C ₂₄ H ₆₉ N ₂ O
					[compound name omitted from index]
254		8. Compound Name - Formula Index		265	9. Bibliography
Incorrect	Ethenyl ethanoate	.....	C ₅ H ₈ O ₂	Incorrect	31BLA/LET
Correct	2-Propenyl ethanoate	.....	C ₅ H ₈ O ₂	Correct	31BLA/LEI
					[typographical error]
254		8. Compound Name - Formula Index		265	9. Bibliography
Incorrect	Freon 12	.....	CHClF ₂	Incorrect	31FIO/GIN ...881-800 (1931).
Correct	Freon 12	.....	CCl ₂ F ₂	Correct	31FIO/GIN ...881-900 (1931).
					[typographical error]
255		8. Compound Name - Formula Index		267	9. Bibliography
Incorrect	Glyceryl triacetate	.....	C ₉ H ₁₄ O ₂	Incorrect	40AST/MES ...1917-1933 (1940).
Correct	Glyceryl triacetate	.....	C ₉ H ₁₄ O ₆	Correct	40AST/MES ...1917-1923 (1940).
					[numerical error]
257		8. Compound Name - Formula Index		267	9. Bibliography
Incorrect	.....			Incorrect	40MES/AST
Correct	2-Methyl-2-butanethiol	.....	C ₅ H ₁₂ S	Correct	...J. Am. Chem. Soc. 62 , 887-890 (1940).
					[numerical error]
257		8. Compound Name - Formula Index		267	9. Bibliography
Incorrect	3-Methylcyclohexanone			Incorrect	40MES/AST
Correct	3-Methylcyclohexanone			Correct	...J. Am. Chem. Soc. 62 , 886-890 (1940).
					[numerical error]
258		8. Compound Name - Formula Index		270	9. Bibliography
Incorrect	Methyltriphenylphosphonium bis(7,7,8,8-tetracyanoquinodomethanide)...			Incorrect	51SUG
Correct	Methyltriphenylphosphonium bis(7,7,8,8-tetracyanoquinodimethanide)...			Correct	...Bull. Chem. Soc. Japan 34 , 426-433 (1961).
					[numerical error]
259		8. Compound Name - Formula Index		271	9. Bibliography
Incorrect	Phthalic anhydride	.....	C ₈ H ₄ O ₃	Incorrect	52SCO/FIN
Correct	Phthalic anhydride	.....	C ₈ H ₄ O ₃	Correct	...functions, 74 , 2478-2483 (1952).
					[numerical error]
260		8. Compound Name - Formula Index		271	9. Bibliography
Incorrect	3-Propen-1-ol			Incorrect	52SCO/FIN
Correct	2-Propen-1-ol			Correct	...functions, J. Am. Chem. Soc. 74 , 2478-2483 (1952).
					[journal citation absent]

271	9. Bibliography
Incorrect	53RAT/GWI ...5629 (1953).
Correct	53RAT/GWI ...5629-5633 (1953).
	[numerical error]
271	9. Bibliography
Incorrect	54MCC/FIN 2 ...J. Am. Chem. Soc. 78,...
Correct	54MCC/FIN 2 ...J. Am. Chem. Soc. 76,...
	[numerical error]
272	9. Bibliography
Incorrect	56FIN/SCO...1,3,5-cyclo-oD heptatriene...
Correct	56FIN/SCO...1,3,5-cycloheptatriene...
	[spelling error]
273	9. Bibliography
	59SCO/DOU Scott, D.W., Douslin, D.R., etc.
	[reference entered twice]
274	9. Bibliography
Incorrect	59WES ...in simmetrical molecules...
Correct	59WES ...in symmetrical molecules...
	[spelling error]
275	9. Bibliography
Incorrect	62SCO/GOO...J. Chem. Phys. 26, 406-412 (1962). J. Chem. Phys. 36, 406-412 (1962).
Correct	62SCO/GOO...J. Chem. Phys. 36, 406-412 (1962).
	[double citation of journal with errors]
275	9. Bibliography
Incorrect	62SCO/MES...4-Fluortoluene:...
	...J. Chem. Physa. ...
Correct	62SCO/MES...4-Fluortoluene:...
	...J. Chem. Phys.
	[typographical errors]
275	9. Bibliography
Incorrect	63HUT/COL...L-laucine...
Correct	63HUT/COL...L-leucine...
	[typographical error]
277	9. Bibliography
Incorrect	66GEL Geller, B.E., Some physicochemical properties of dimethylformamide, Zhur. Fiz. Khim. 40, 1956-1958 (1966).
Correct	61GEL Geller, B.E., Some physicochemical proper- ties of dimethylformamide, Zhur. Fiz. Khim. 35, 2210-2216 (1961).
	[reference error]
277	9. Bibliography
Incorrect	66ZAL/STR...Zalikin, and A.A., Strepikheev, Yu.A.,...
Correct	66ZAL/STR...Zalikin, A.A., and Strepikheev, Yu.A.,...
	[typographical error]
278	9. Bibliography
Incorrect	68GEE/MEL...Makroknol. Chem. ...
Correct	68GEE/MEL...Makromol. Chem. ...
	[typographical error]
278	9. Bibliography
Incorrect	68WES/WUL Westrum, E.F., Jr., and Wulff, C.A.,...
Correct	68GIR/WES Girdhar, H.L., Westrum, E.F., Jr., and Wulff, C.A.,...
	[author citation error]
278	9. Bibliography
Incorrect	69HUT/COL...bovine chymotripsinogen...
Correct	69HUT/COL...bovine chymotrypsinogen...
	[typographical error]

279	9. Bibliography
Incorrect	70TAK/WFS Takahashi, Y., and Westrum, E.F., Jr.,...
Correct	70TAK/WES Takahashi, Y., and Westrum, E.F., Jr.,...
	[typographical error]
280	9. Bibliography
Incorrect	73AND/MAR...Part II. ...
Correct	73AND/MAR...Part 11. ...
	[eleven, not Roman II]
281	9. Bibliography
Incorrect	73KUS/SUU...and Wadso, Thermochemistry of ...
Correct	73KUS/SUU...and Wadso, I., Thermochemistry of...
	[first name initial omitted]
282	9. Bibliography
Incorrect	[reference missing]
Correct	75LEB/TSV Lebedev, B.V., Tsvetkova, L. Ya., Kirparisova, E.G., and Lebedev, N.K., Thermodynamic properties of cycloocta-1,5-diene, Zhur. Fiz. Khim. 49, 2152 (1975).
	[reference omitted]
284	9. Bibliography
Incorrect	79LEB/LIT...264-265 (1979).
Correct	79LEB/LIT...364-365 (1979).
	[numerical error]
284	9. Bibliography
Incorrect	79PUC/PEA Fuchs, R., and Peabody, L.A.,...
Correct	79FUC/PEA Fuchs, R., and Peabody, L.A.,...
	[typographical error]
285	9. Bibliography
Incorrect	[reference missing]
Correct	80WON/WES Wong, W.K., and Westrum, E.F., Jr., Thermodynamics of polynuclear aromatic molecules. II. Low temperature thermal properties of perylene, coronene, and naphthalene, Mol. Cryst. Liq. Cryst. 61, 207-228 (1980).
	[reference omitted]
285	9. Bibliography
Incorrect	81LEB/YEV 2 ...Kiparisova, Y.E.,...
Correct	81LEB/YEV 2 ...Kiparisova, Y.G.,...
	[spelling error]
286	9. Bibliography
Incorrect	81TOM/CUR ...1,1'-dibenzolferrocene...
Correct	81TOM/CUR ...1,1'-dibenzoylferrocene...
	[spelling error]
286	9. Bibliography
Incorrect	82MOR/MAT ...cryo-refrigerator...
Correct	82MOR/MAT ...cryo-refrigerator...
	[spelling error]
286	9. Bibliography
Incorrect	82SCH/MIL 2 ...II. Molar heat of seven...
Correct	82SCH/MIL 2 ...II. Molar heat capacities of seven...
	[word omitted]
286	9. Bibliography
	82WIL/ING
	[out of place alphabetically].