

# STANDARD THERMODYNAMIC PROPERTIES OF CHEMICAL SUBSTANCES

This table gives the standard state chemical thermodynamic properties of about 2500 individual substances in the crystalline, liquid, and gaseous states. Substances are listed by molecular formula in a modified Hill order; all substances not containing carbon appear first, followed by those that contain carbon. The properties tabulated are:

- $\Delta_f H^\circ$  Standard molar enthalpy (heat) of formation at 298.15 K in kJ/mol
- $\Delta_f G^\circ$  Standard molar Gibbs energy of formation at 298.15 K in kJ/mol
- $S^\circ$  Standard molar entropy at 298.15 K in J/mol K
- $C_p$  Molar heat capacity at constant pressure at 298.15 K in J/mol K

The standard state pressure is 100 kPa (1 bar). The standard states are defined for different phases by:

- The standard state of a pure gaseous substance is that of the substance as a (hypothetical) ideal gas at the standard state pressure.
- The standard state of a pure liquid substance is that of the liquid under the standard state pressure.
- The standard state of a pure crystalline substance is that of the crystalline substance under the standard state pressure.

An entry of 0.0 for  $\Delta_f H^\circ$  for an element indicates the reference state of that element. See References 1 and 2 for further information on reference states. A blank means no value is available.

The data are derived from the sources listed in the references, from other papers appearing in the *Journal of Physical and Chemical Reference Data*, and from the primary research literature. We are indebted to M. V. Korobov for providing data on fullerene compounds.

## References

1. Cox, J. D., Wagman, D. D., and Medvedev, V. A., *CODATA Key Values for Thermodynamics*, Hemisphere Publishing Corp., New York, 1989.
2. Wagman, D. D., Evans, W. H., Parker, V. B., Schumm, R. H., Halow, I., Bailey, S. M., Churney, K. L., and Nuttall, R. L., *The NBS Tables of Chemical Thermodynamic Properties*, *J. Phys. Chem. Ref. Data*, Vol. 11, Suppl. 2, 1982.
3. Chase, M. W., Davies, C. A., Downey, J. R., Frurip, D. J., McDonald, R. A., and Syverud, A. N., *JANAF Thermochemical Tables, Third Edition*, *J. Phys. Chem. Ref. Data*, Vol. 14, Suppl.1, 1985.
4. Chase, M. W., *NIST-JANAF Thermochemical Tables, Fourth Edition*, *J. Phys. Chem. Ref. Data*, Monograph 9, 1998.
5. Daubert, T. E., Danner, R. P., Sibul, H. M., and Stebbins, C. C., *Physical and Thermodynamic Properties of Pure Compounds: Data Compilation*, extant 1994 (core with 4 supplements), Taylor & Francis, Bristol, PA.
6. Pedley, J. B., Naylor, R. D., and Kirby, S. P., *Thermochemical Data of Organic Compounds, Second Edition*, Chapman & Hall, London, 1986.
7. Pedley, J. B., *Thermochemical Data and Structures of Organic Compounds*, Thermodynamic Research Center, Texas A & M University, College Station, TX, 1994.
8. Domalski, E. S., and Hearing, E. D., Heat Capacities and Entropies of Organic Compounds in the Condensed Phase, Volume III, *J. Phys. Chem. Ref. Data*, 25, 1-525, 1996.
9. Zabransky, M., Ruzicka, V., Majer, V., and Domalski, E. S., *Heat Capacity of Liquids*, *J. Phys. Chem. Ref. Data*, Monograph No. 6, 1996.
10. Gurvich, L. V., Veyts, I.V., and Alcock, C. B., *Thermodynamic Properties of Individual Substances, Fourth Edition, Vol. 1*, Hemisphere Publishing Corp., New York, 1989.
11. Gurvich, L. V., Veyts, I.V., and Alcock, C. B., *Thermodynamic Properties of Individual Substances, Fourth Edition, Vol. 3*, CRC Press, Boca Raton, FL, 1994.
12. *NIST Chemistry Webbook*, <webbook.nist.gov>

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
<i>Substances not containing carbon:</i>													
Ac	Actinium	0.0		56.5	27.2					406.0	366.0	188.1	20.8
Ag	Silver	0.0		42.6	25.4					284.9	246.0	173.0	20.8
AgBr	Silver(I) bromide	-100.4	-96.9	107.1	52.4								
AgBrO <sub>3</sub>	Silver(I) bromate	-10.5	71.3	151.9									
AgCl	Silver(I) chloride	-127.0	-109.8	96.3	50.8								
AgClO <sub>3</sub>	Silver(I) chlorate	-30.3	64.5	142.0									
AgClO <sub>4</sub>	Silver(I) perchlorate	-31.1											
AgF	Silver(I) fluoride	-204.6											
AgF <sub>2</sub>	Silver(II) fluoride	-360.0											
AgI	Silver(I) iodide	-61.8	-66.2	115.5	56.8								
AgIO <sub>3</sub>	Silver(I) iodate	-171.1	-93.7	149.4	102.9								
AgNO <sub>3</sub>	Silver(I) nitrate	-124.4	-33.4	140.9	93.1								
Ag <sub>2</sub>	Disilver									410.0	358.8	257.1	37.0
Ag <sub>2</sub> CrO <sub>4</sub>	Silver(I) chromate	-731.7	-641.8	217.6	142.3								
Ag <sub>2</sub> O	Silver(I) oxide	-31.1	-11.2	121.3	65.9								
Ag <sub>2</sub> O <sub>2</sub>	Silver(II) oxide	-24.3	27.6	117.0	88.0								
Ag <sub>2</sub> O <sub>3</sub>	Silver(III) oxide	33.9	121.4	100.0									
Ag <sub>2</sub> O <sub>4</sub> S	Silver(I) sulfate	-715.9	-618.4	200.4	131.4								
Ag <sub>2</sub> S	Silver(I) sulfide (argentite)	-32.6	-40.7	144.0	76.5								
Al	Aluminum	0.0		28.3	24.2					330.0	289.4	164.6	21.4

















Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
F <sub>3</sub> Th	Thorium(III) fluoride									-1166.1	-1160.6	339.2	73.3
F <sub>3</sub> U	Uranium(III) fluoride	-1502.1	-1433.4	123.4	95.1					-1058.5	-1051.9	331.9	74.3
F <sub>3</sub> Y	Yttrium fluoride	-1718.8	-1644.7	100.0						-1288.7	-1277.8	311.8	70.3
F <sub>4</sub> Ge	Germanium(IV) fluoride									-1190.2	-1150.0	301.9	
F <sub>4</sub> Hf	Hafnium fluoride	-1930.5	-1830.4	113.0						-1669.8			
F <sub>4</sub> N <sub>2</sub>	Tetrafluorohydrazine									-8.4	79.9	301.2	79.2
F <sub>4</sub> Pb	Lead(IV) fluoride	-941.8											
F <sub>4</sub> S	Sulfur tetrafluoride									-763.2	-722.0	299.6	77.6
F <sub>4</sub> Si	Tetrafluorosilane									-1615.0	-1572.8	282.8	73.6
F <sub>4</sub> Th	Thorium(IV) fluoride	-2097.8	-2003.4	142.0	110.7					-1759.0	-1724.0	341.7	93.0
F <sub>4</sub> U	Uranium(IV) fluoride	-1914.2	-1823.3	151.7	116.0					-1598.7	-1572.7	368.0	91.2
F <sub>4</sub> V	Vanadium(IV) fluoride	-1403.3											
F <sub>4</sub> Xe	Xenon tetrafluoride	-261.5											
F <sub>4</sub> Zr	Zirconium(IV) fluoride	-1911.3	-1809.9	104.6	103.7								
F <sub>5</sub> I	Iodine pentafluoride					-864.8				-822.5	-751.7	327.7	99.2
F <sub>5</sub> Nb	Niobium(V) fluoride	-1813.8	-1699.0	160.2	134.7					-1739.7	-1673.6	321.9	97.1
F <sub>5</sub> P	Phosphorus(V) fluoride									-1594.4	-1520.7	300.8	84.8
F <sub>5</sub> Ta	Tantalum(V) fluoride	-1903.6											
F <sub>5</sub> V	Vanadium(V) fluoride					-1480.3	-1373.1	175.7		-1433.9	-1369.8	320.9	98.6
F <sub>6</sub> H <sub>8</sub> N <sub>2</sub> Si	Ammonium hexafluorosilicate	-2681.7	-2365.3	280.2	228.1								
F <sub>6</sub> Ir	Iridium(VI) fluoride	-579.7	-461.6	247.7						-544.0	-460.0	357.8	121.1
F <sub>6</sub> K <sub>2</sub> Si	Potassium hexafluorosilicate	-2956.0	-2798.6	226.0									
F <sub>6</sub> Mo	Molybdenum(VI) fluoride					-1585.5	-1473.0	259.7	169.8	-1557.7	-1472.2	350.5	120.6
F <sub>6</sub> Na <sub>2</sub> Si	Sodium hexafluorosilicate	-2909.6	-2754.2	207.1	187.1								
F <sub>6</sub> Os	Osmium(VI) fluoride			246.0								358.1	120.8
F <sub>6</sub> Pt	Platinum(VI) fluoride			235.6								348.3	122.8
F <sub>6</sub> S	Sulfur hexafluoride									-1220.5	-1116.5	291.5	97.0
F <sub>6</sub> Se	Selenium hexafluoride									-1117.0	-1017.0	313.9	110.5
F <sub>6</sub> Si <sub>2</sub>	Hexafluorodisilane	-2427.0	-2299.7	219.1	129.5					-2383.3	-2307.3	391.0	129.9
F <sub>6</sub> Te	Tellurium hexafluoride									-1318.0			
F <sub>6</sub> U	Uranium(VI) fluoride	-2197.0	-2068.5	227.6	166.8					-2147.4	-2063.7	377.9	129.6
F <sub>6</sub> W	Tungsten(VI) fluoride					-1747.7	-1631.4	251.5		-1721.7	-1632.1	341.1	119.0
Fe	Iron	0.0		27.3	25.1					416.3	370.7	180.5	25.7
FeI <sub>2</sub>	Iron(II) iodide	-113.0											
FeI <sub>3</sub>	Iron(III) iodide									71.0			
FeMoO <sub>4</sub>	Iron(II) molybdate	-1075.0	-975.0	129.3	118.5								
FeO	Iron(II) oxide	-272.0											
FeO <sub>4</sub> S	Iron(II) sulfate	-928.4	-820.8	107.5	100.6								
FeO <sub>4</sub> W	Iron(II) tungstate	-1155.0	-1054.0	131.8	114.6								
FeS	Iron(II) sulfide	-100.0	-100.4	60.3	50.5								
FeS <sub>2</sub>	Iron disulfide	-178.2	-166.9	52.9	62.2								
Fe <sub>2</sub> O <sub>3</sub>	Iron(III) oxide	-824.2	-742.2	87.4	103.9								
Fe <sub>2</sub> O <sub>4</sub> Si	Iron(II) orthosilicate	-1479.9	-1379.0	145.2	132.9								
Fe <sub>3</sub> O <sub>4</sub>	Iron(II,III) oxide	-1118.4	-1015.4	146.4	143.4								
Fm	Fermium	0.0											
Fr	Francium	0.0		95.4									
Ga	Gallium	0.0	0.0	40.8	26.1	5.6				272.0	233.7	169.0	25.3
GaH <sub>3</sub> O <sub>3</sub>	Gallium(III) hydroxide	-964.4	-831.3	100.0									
Gal <sub>3</sub>	Gallium(III) iodide	-238.9		205.0	100.0								
GaN	Gallium nitride	-110.5											
GaO	Gallium monoxide									279.5	253.5	231.1	32.1
GaP	Gallium phosphide	-88.0											
GaSb	Gallium antimonide	-41.8	-38.9	76.1	48.5								
Ga <sub>2</sub>	Digallium									438.5			
Ga <sub>2</sub> O	Gallium suboxide	-356.0											
Ga <sub>2</sub> O <sub>3</sub>	Gallium(III) oxide	-1089.1	-998.3	85.0	92.1								
Gd	Gadolinium	0.0		68.1	37.0					397.5	359.8	194.3	27.5
Gd <sub>2</sub> O <sub>3</sub>	Gadolinium(III) oxide	-1819.6			106.7								
Ge	Germanium	0.0		31.1	23.3					372.0	331.2	167.9	30.7
GeH <sub>3</sub> I	Iodogermane											283.2	57.5
GeH <sub>4</sub>	Germane									90.8	113.4	217.1	45.0
GeI <sub>4</sub>	Germanium(IV) iodide	-141.8	-144.3	271.1						-56.9	-106.3	428.9	104.1
GeO	Germanium(II) oxide	-261.9	-237.2	50.0						-46.2	-73.2	224.3	30.9
GeO <sub>2</sub>	Germanium(IV) oxide	-580.0	-521.4	39.7	52.1								
GeP	Germanium phosphide	-21.0	-17.0	63.0									
GeS	Germanium(II) sulfide	-69.0	-71.5	71.0						92.0	42.0	234.0	33.7









Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
O <sub>2</sub> S	Sulfur dioxide					-320.5				-296.8	-300.1	248.2	39.9
O <sub>2</sub> Se	Selenium dioxide	-225.4											
O <sub>2</sub> Si	Silicon dioxide ( $\alpha$ -quartz)	-910.7	-856.3	41.5	44.4					-322.0			
O <sub>2</sub> Sn	Tin(IV) oxide	-577.6	-515.8	49.0	52.6								
O <sub>2</sub> Te	Tellurium dioxide	-322.6	-270.3	79.5									
O <sub>2</sub> Th	Thorium(IV) oxide	-1226.4	-1169.2	65.2	61.8								
O <sub>2</sub> Ti	Titanium(IV) oxide	-944.0	-888.8	50.6	55.0								
O <sub>2</sub> U	Uranium(IV) oxide	-1085.0	-1031.8	77.0	63.6					-465.7	-471.5	274.6	51.4
O <sub>2</sub> W	Tungsten(IV) oxide	-589.7	-533.9	50.5	56.1								
O <sub>2</sub> Zr	Zirconium(IV) oxide	-1100.6	-1042.8	50.4	56.2								
O <sub>3</sub>	Ozone									142.7	163.2	238.9	39.2
O <sub>3</sub> PbS	Lead(II) sulfite	-669.9											
O <sub>3</sub> PbSi	Lead(II) metasilicate	-1145.7	-1062.1	109.6	90.0								
O <sub>3</sub> Pt <sub>2</sub>	Praseodymium oxide	-1809.6			117.4								
O <sub>3</sub> Rh <sub>2</sub>	Rhodium(III) oxide	-343.0			103.8								
O <sub>3</sub> S	Sulfur trioxide	-454.5	-374.2	70.7		-441.0	-373.8	113.8		-395.7	-371.1	256.8	50.7
O <sub>3</sub> Sc <sub>2</sub>	Scandium oxide	-1908.8	-1819.4	77.0	94.2								
O <sub>3</sub> SiSr	Strontium metasilicate	-1633.9	-1549.7	96.7	88.5								
O <sub>3</sub> Sm <sub>2</sub>	Samarium(III) oxide	-1823.0	-1734.6	151.0	114.5								
O <sub>3</sub> Tb <sub>2</sub>	Terbium oxide	-1865.2			115.9								
O <sub>3</sub> Ti <sub>2</sub>	Titanium(III) oxide	-1520.9	-1434.2	78.8	97.4								
O <sub>3</sub> Tm <sub>2</sub>	Thulium oxide	-1888.7	-1794.5	139.7	116.7								
O <sub>3</sub> U	Uranium(VI) oxide	-1223.8	-1145.7	96.1	81.7								
O <sub>3</sub> V <sub>2</sub>	Vanadium(III) oxide	-1218.8	-1139.3	98.3	103.2								
O <sub>3</sub> W	Tungsten(VI) oxide	-842.9	-764.0	75.9	73.8								
O <sub>3</sub> Y <sub>2</sub>	Yttrium oxide	-1905.3	-1816.6	99.1	102.5								
O <sub>3</sub> Yb <sub>2</sub>	Ytterbium(III) oxide	-1814.6	-1726.7	133.1	115.4								
O <sub>4</sub> Os	Osmium(VIII) oxide	-394.1	-304.9	143.9						-337.2	-292.8	293.8	74.1
O <sub>4</sub> PbS	Lead(II) sulfate	-920.0	-813.0	148.5	103.2								
O <sub>4</sub> PbSe	Lead(II) selenate	-609.2	-504.9	167.8									
O <sub>4</sub> Pb <sub>2</sub> Si	Lead(II) orthosilicate	-1363.1	-1252.6	186.6	137.2								
O <sub>4</sub> Pb <sub>3</sub>	Lead(II,IV) oxide	-718.4	-601.2	211.3	146.9								
O <sub>4</sub> RaS	Radium sulfate	-1471.1	-1365.6	138.0									
O <sub>4</sub> Rb <sub>2</sub> S	Rubidium sulfate	-1435.6	-1316.9	197.4	134.1								
O <sub>4</sub> Ru	Ruthenium(VIII) oxide	-239.3	-152.2	146.4									
O <sub>4</sub> SSr	Strontium sulfate	-1453.1	-1340.9	117.0									
O <sub>4</sub> STl <sub>2</sub>	Thallium(I) sulfate	-931.8	-830.4	230.5									
O <sub>4</sub> SZn	Zinc sulfate	-982.8	-871.5	110.5	99.2								
O <sub>4</sub> SiSr <sub>2</sub>	Strontium orthosilicate	-2304.5	-2191.1	153.1	134.3								
O <sub>4</sub> SiZn <sub>2</sub>	Zinc orthosilicate	-1636.7	-1523.2	131.4	123.3								
O <sub>4</sub> SiZr	Zirconium(IV) orthosilicate	-2033.4	-1919.1	84.1	98.7								
O <sub>4</sub> TiZr	Zirconium titanate	-2024.1	-1915.8	116.7	114.0								
O <sub>5</sub> Sb <sub>2</sub>	Antimony(V) oxide	-971.9	-829.2	125.1									
O <sub>5</sub> Ta <sub>2</sub>	Tantalum(V) oxide	-2046.0	-1911.2	143.1	135.1								
O <sub>5</sub> Ti <sub>3</sub>	Titanium(III,IV) oxide	-2459.4	-2317.4	129.3	154.8								
O <sub>5</sub> V <sub>2</sub>	Vanadium(V) oxide	-1550.6	-1419.5	131.0	127.7								
O <sub>5</sub> V <sub>3</sub>	Vanadium(III,IV) oxide	-1933.0	-1803.0	163.0									
O <sub>7</sub> Re <sub>2</sub>	Rhenium(VII) oxide	-1240.1	-1066.0	207.1	166.1					-1100.0	-994.0	452.0	
O <sub>7</sub> U <sub>3</sub>	Uranium(IV,VI) oxide	-3427.1	-3242.9	250.5	215.5								
O <sub>8</sub> S <sub>2</sub> Zr	Zirconium(IV) sulfate	-2217.1			172.0								
O <sub>9</sub> U <sub>3</sub>	Uranium(V,VI) oxide	-3574.8	-3369.5	282.6	238.4								
O <sub>9</sub> U <sub>4</sub>	Uranium(IV,V) oxide	-4510.4	-4275.1	334.1	293.3								
Os	Osmium	0.0		32.6	24.7					791.0	745.0	192.6	20.8
P	Phosphorus (white)	0.0		41.1	23.8					316.5	280.1	163.2	20.8
P	Phosphorus (red)	-17.6		22.8	21.2								
P	Phosphorus (black)	-39.3											
P <sub>2</sub>	Diphosphorus									144.0	103.5	218.1	32.1
P <sub>4</sub>	Tetraphosphorus									58.9	24.4	280.0	67.2
Pa	Protactinium	0.0		51.9						607.0	563.0	198.1	22.9
Pb	Lead	0.0		64.8	26.4					195.2	162.2	175.4	20.8
PbS	Lead(II) sulfide	-100.4	-98.7	91.2	49.5								
PbSe	Lead(II) selenide	-102.9	-101.7	102.5	50.2								
PbTe	Lead(II) telluride	-70.7	-69.5	110.0	50.5								
Pd	Palladium	0.0		37.6	26.0					378.2	339.7	167.1	20.8
PdS	Palladium(II) sulfide	-75.0	-67.0	46.0									
Pm	Promethium	0.0										187.1	24.3

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
Po	Polonium	0.0											
Pr	Praseodymium	0.0		73.2	27.2					355.6	320.9	189.8	21.4
Pt	Platinum	0.0		41.6	25.9					565.3	520.5	192.4	25.5
PtS	Platinum(II) sulfide	-81.6	-76.1	55.1	43.4								
PtS <sub>2</sub>	Platinum(IV) sulfide	-108.8	-99.6	74.7	65.9								
Pu	Plutonium	0.0											
Ra	Radium	0.0		71.0						159.0	130.0	176.5	20.8
Rb	Rubidium	0.0		76.8	31.1					80.9	53.1	170.1	20.8
Re	Rhenium	0.0		36.9	25.5					769.9	724.6	188.9	20.8
Rh	Rhodium	0.0		31.5	25.0					556.9	510.8	185.8	21.0
Rn	Radon								0.0			176.2	20.8
Ru	Ruthenium	0.0		28.5	24.1					642.7	595.8	186.5	21.5
S	Sulfur (rhombic)	0.0		32.1	22.6					277.2	236.7	167.8	23.7
S	Sulfur (monoclinic)	0.3											
SSi	Silicon monosulfide									112.5	60.9	223.7	32.3
SSn	Tin(II) sulfide	-100.0	-98.3	77.0	49.3								
SSr	Strontium sulfide	-472.4	-467.8	68.2	48.7								
STl <sub>2</sub>	Thallium(I) sulfide	-97.1	-93.7	151.0									
SZn	Zinc sulfide (wurtzite)	-192.6											
SZn	Zinc sulfide (sphalerite)	-206.0	-201.3	57.7	46.0								
S <sub>2</sub>	Disulfur									128.6	79.7	228.2	32.5
Sb	Antimony	0.0		45.7	25.2					262.3	222.1	180.3	20.8
Sb <sub>2</sub>	Diantimony									235.6	187.0	254.9	36.4
Sc	Scandium	0.0		34.6	25.5					377.8	336.0	174.8	22.1
Se	Selenium (gray)	0.0		42.4	25.4					227.1	187.0	176.7	20.8
Se	Selenium ( $\alpha$ form)	6.7								227.1			
Se	Selenium (vitreous)	5.0								227.1			
SeSr	Strontium selenide	-385.8											
SeTl <sub>2</sub>	Thallium(I) selenide	-59.0	-59.0	172.0									
SeZn	Zinc selenide	-163.0	-163.0	84.0									
Se <sub>2</sub>	Diselenium									146.0	96.2	252.0	35.4
Si	Silicon	0.0		18.8	20.0					450.0	405.5	168.0	22.3
Si <sub>2</sub>	Disilicon									594.0	536.0	229.9	34.4
Sm	Samarium	0.0		69.6	29.5					206.7	172.8	183.0	30.4
Sn	Tin (white)	0.0		51.2	27.0					301.2	266.2	168.5	21.3
Sn	Tin (gray)	-2.1	0.1	44.1	25.8								
Sr	Strontium	0.0		55.0	26.8					164.4	130.9	164.6	20.8
Ta	Tantalum	0.0		41.5	25.4					782.0	739.3	185.2	20.9
Tb	Terbium	0.0		73.2	28.9					388.7	349.7	203.6	24.6
Tc	Technetium	0.0								678.0		181.1	20.8
Te	Tellurium	0.0		49.7	25.7					196.7	157.1	182.7	20.8
Te <sub>2</sub>	Ditellurium									168.2	118.0	268.1	36.7
Th	Thorium	0.0		51.8	27.3					602.0	560.7	190.2	20.8
Ti	Titanium	0.0		30.7	25.0					473.0	428.4	180.3	24.4
Tl	Thallium	0.0		64.2	26.3					182.2	147.4	181.0	20.8
Tm	Thulium	0.0		74.0	27.0					232.2	197.5	190.1	20.8
U	Uranium	0.0		50.2	27.7					533.0	488.4	199.8	23.7
V	Vanadium	0.0		28.9	24.9					514.2	754.4	182.3	26.0
W	Tungsten	0.0		32.6	24.3					849.4	807.1	174.0	21.3
Xe	Xenon								0.0			169.7	20.8
Y	Yttrium	0.0		44.4	26.5					421.3	381.1	179.5	25.9
Yb	Ytterbium	0.0		59.9	26.7					152.3	118.4	173.1	20.8
Zn	Zinc	0.0		41.6	25.4					130.4	94.8	161.0	20.8
Zr	Zirconium	0.0		39.0	25.4					608.8	566.5	181.4	26.7
<b>Substances containing carbon:</b>													
C	Carbon (graphite)	0.0		5.7	8.5					716.7	671.3	158.1	20.8
C	Carbon (diamond)	1.9	2.9	2.4	6.1								
C <sub>Ag</sub> N	Silver(I) cyanide	146.0	156.9	107.2	66.7								
CAg <sub>2</sub> O <sub>3</sub>	Silver(I) carbonate	-505.8	-436.8	167.4	112.3								
CBaO <sub>3</sub>	Barium carbonate	-1213.0	-1134.4	112.1	86.0								
CBeO <sub>3</sub>	Beryllium carbonate	-1025.0		52.0	65.0								
CBrClF <sub>2</sub>	Bromochlorodifluoromethane											318.5	74.6
CBrCl <sub>2</sub> F	Bromodichlorofluoromethane											330.6	80.0
CBrCl <sub>3</sub>	Bromotrichloromethane									-41.1			85.3
CBrF <sub>3</sub>	Bromotrifluoromethane									-648.3			69.3

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
CBrN	Cyanogen bromide	140.5								186.2	165.3	248.3	46.9
CBrN <sub>3</sub> O <sub>6</sub>	Bromotrinitromethane					32.5				80.3			
CBr <sub>2</sub> ClF	Dibromochlorofluoromethane											342.8	82.4
CBr <sub>2</sub> Cl <sub>2</sub>	Dibromodichloromethane											347.8	87.1
CBr <sub>2</sub> F <sub>2</sub>	Dibromodifluoromethane											325.3	77.0
CBr <sub>2</sub> O	Carbonyl bromide					-127.2				-96.2	-110.9	309.1	61.8
CBr <sub>3</sub> Cl	Tribromochloromethane											357.8	89.4
CBr <sub>3</sub> F	Tribromofluoromethane											345.9	84.4
CBr <sub>4</sub>	Tetrabromomethane	29.4	47.7	212.5	144.3					83.9	67.0	358.1	91.2
CCaO <sub>3</sub>	Calcium carbonate (calcite)	-1207.6	-1129.1	91.7	83.5								
CCaO <sub>3</sub>	Calcium carbonate (aragonite)	-1207.8	-1128.2	88.0	82.3								
CCdO <sub>3</sub>	Cadmium carbonate	-750.6	-669.4	92.5									
CClFO	Carbonyl chloride fluoride											276.7	52.4
CClF <sub>3</sub>	Chlorotrifluoromethane									-706.3			66.9
CCIN	Cyanogen chloride					112.1				138.0	131.0	236.2	45.0
CCIN <sub>3</sub> O <sub>6</sub>	Chlorotrinitromethane					-27.1				18.4			
CCl <sub>2</sub> F <sub>2</sub>	Dichlorodifluoromethane									-477.4	-439.4	300.8	72.3
CCl <sub>2</sub> O	Carbonyl chloride									-219.1	-204.9	283.5	57.7
CCl <sub>3</sub>	Trichloromethyl									59.0			
CCl <sub>3</sub> F	Trichlorofluoromethane					-301.3	-236.8	225.4	121.6	-268.3			78.1
CCl <sub>4</sub>	Tetrachloromethane					-128.2			130.7	-95.7			83.3
CCoO <sub>3</sub>	Cobalt(II) carbonate	-713.0											
CCs <sub>2</sub> O <sub>3</sub>	Cesium carbonate	-1139.7	-1054.3	204.5	123.9								
CCuN	Copper(I) cyanide	96.2	111.3	84.5									
CFN	Cyanogen fluoride											224.7	41.8
CF <sub>2</sub> O	Carbonyl fluoride									-639.8			46.8
CF <sub>3</sub>	Trifluoromethyl									-477.0	-464.0	264.5	49.6
CF <sub>3</sub> I	Trifluoroiodomethane									-587.8		307.4	70.9
CF <sub>4</sub>	Tetrafluoromethane									-933.6		261.6	61.1
CFeO <sub>3</sub>	Iron(II) carbonate	-740.6	-666.7	92.9	82.1								
CFe <sub>3</sub>	Iron carbide	25.1	20.1	104.6	105.9								
CH	Methylidyne									595.8			
CHBrClF	Bromochlorofluoromethane											304.3	63.2
CHBrCl <sub>2</sub>	Bromodichloromethane											316.4	67.4
CHBrF <sub>2</sub>	Bromodifluoromethane									-424.9		295.1	58.7
CHBr <sub>2</sub> Cl	Chlorodibromomethane											327.7	69.2
CHBr <sub>2</sub> F	Dibromofluoromethane											316.8	65.1
CHBr <sub>3</sub>	Tribromomethane					-22.3	-5.0	220.9	130.7	23.8	8.0	330.9	71.2
CHClF <sub>2</sub>	Chlorodifluoromethane									-482.6		280.9	55.9
CHCl <sub>2</sub> F	Dichlorofluoromethane											293.1	60.9
CHCl <sub>3</sub>	Trichloromethane					-134.1	-73.7	201.7	114.2	-102.7	6.0	295.7	65.7
CHCsO <sub>3</sub>	Cesium hydrogen carbonate	-966.1											
CHFO	Formyl fluoride											246.6	39.9
CHF <sub>3</sub>	Trifluoromethane									-695.4		259.7	51.0
CHI <sub>3</sub>	Triiodomethane	-181.1								251.0		356.2	75.0
CHKO <sub>2</sub>	Potassium formate	-679.7											
CHKO <sub>3</sub>	Potassium hydrogen carbonate	-963.2	-863.5	115.5									
CHN	Hydrogen cyanide					108.9	125.0	112.8	70.6	135.1	124.7	201.8	35.9
CHNO	Isocyanic acid (HNCO)											238.0	44.9
CHNS	Isothiocyanic acid									127.6	113.0	247.8	46.9
CHN <sub>3</sub> O <sub>6</sub>	Trinitromethane					-32.8				-13.4		435.6	134.1
CHNaO <sub>2</sub>	Sodium formate	-666.5	-599.9	103.8	82.7								
CHNaO <sub>3</sub>	Sodium hydrogen carbonate	-950.8	-851.0	101.7	87.6								
CHO	Oxomethyl (HCO)									43.1	28.0	224.7	34.6
CH <sub>2</sub>	Methylene									390.4	372.9	194.9	33.8
CH <sub>2</sub> BrCl	Bromochloromethane											287.6	52.7
CH <sub>2</sub> BrF	Bromofluoromethane											276.3	49.2
CH <sub>2</sub> Br <sub>2</sub>	Dibromomethane											293.2	54.7
CH <sub>2</sub> ClF	Chlorofluoromethane											264.4	47.0
CH <sub>2</sub> Cl <sub>2</sub>	Dichloromethane					-124.2		177.8	101.2	-95.4		270.2	51.0
CH <sub>2</sub> F <sub>2</sub>	Difluoromethane									-452.3		246.7	42.9
CH <sub>2</sub> I <sub>2</sub>	Diiodomethane					68.5	90.4	174.1	134.0	119.5	95.8	309.7	57.7
CH <sub>2</sub> N <sub>2</sub>	Diazomethane											242.9	52.5
CH <sub>2</sub> N <sub>2</sub>	Cyanamide	58.8											
CH <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	Dinitromethane					-104.9				-61.5		358.1	86.4
CH <sub>2</sub> O	Formaldehyde									-108.6	-102.5	218.8	35.4





Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>2</sub> ClF <sub>3</sub>	Chlorotrifluoroethene					-522.7				-505.5	-523.8	322.1	83.9
C <sub>2</sub> ClF <sub>5</sub>	Chloropentafluoroethane									-1118.8			184.2
C <sub>2</sub> Cl <sub>2</sub> F <sub>4</sub>	1,2-Dichloro-1,1,2,2-tetrafluoroethane					-960.2			111.7	-937.0			
C <sub>2</sub> Cl <sub>2</sub> O <sub>2</sub>	Oxalyl chloride					-367.6				-335.8			
C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub>	1,1,2-Trichloro-1,2,2-trifluoroethane					-745.0			170.1	-716.8			
C <sub>2</sub> Cl <sub>3</sub> N	Trichloroacetoneitrile											336.6	96.1
C <sub>2</sub> Cl <sub>4</sub>	Tetrachloroethene					-50.6	3.0	266.9	143.4	-10.9			
C <sub>2</sub> Cl <sub>4</sub> F <sub>2</sub>	1,1,1,2-Tetrachloro-2,2-difluoroethane									-489.9	-407.0	382.9	123.4
C <sub>2</sub> Cl <sub>4</sub> F <sub>2</sub>	1,1,2,2-Tetrachloro-1,2-difluoroethane								173.6				
C <sub>2</sub> Cl <sub>4</sub> O	Trichloroacetyl chloride					-280.8				-239.8			
C <sub>2</sub> Cl <sub>6</sub>	Hexachloroethane	-202.8		237.3	198.2					-143.6			
C <sub>2</sub> F <sub>3</sub> N	Trifluoroacetoneitrile									-497.9		298.1	77.9
C <sub>2</sub> F <sub>4</sub>	Tetrafluoroethene	-820.5								-658.9		300.1	80.5
C <sub>2</sub> F <sub>6</sub>	Hexafluoroethane									-1344.2		332.3	106.7
C <sub>2</sub> HBr	Bromoacetylene											253.7	55.7
C <sub>2</sub> HBrClF <sub>3</sub>	1-Bromo-2-chloro-1,1,2-trifluoroethane					-675.3				-644.8			
C <sub>2</sub> HBrClF <sub>3</sub>	2-Bromo-2-chloro-1,1,1-trifluoroethane					-720.0				-690.4			
C <sub>2</sub> HCl	Chloroacetylene											242.0	54.3
C <sub>2</sub> HClF <sub>2</sub>	1-Chloro-2,2-difluoroethene									-315.5	-289.1	303.0	72.1
C <sub>2</sub> HCl <sub>2</sub> F	1,1-Dichloro-2-fluoroethene											313.9	76.5
C <sub>2</sub> HCl <sub>2</sub> F <sub>3</sub>	2,2-Dichloro-1,1,1-trifluoroethane											352.8	102.5
C <sub>2</sub> HCl <sub>3</sub>	Trichloroethene					-43.6		228.4	124.4	-9.0		324.8	80.3
C <sub>2</sub> HCl <sub>3</sub> O	Trichloroacetaldehyde					-234.5			151.0	-196.6			
C <sub>2</sub> HCl <sub>3</sub> O	Dichloroacetyl chloride					-280.4				-241.0			
C <sub>2</sub> HCl <sub>3</sub> O <sub>2</sub>	Trichloroacetic acid	-503.3											
C <sub>2</sub> HCl <sub>5</sub>	Pentachloroethane					-187.6			173.8	-142.0			
C <sub>2</sub> HF	Fluoroacetylene											231.7	52.4
C <sub>2</sub> HF <sub>3</sub>	Trifluoroethene									-490.5			
C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>	Trifluoroacetic acid					-1069.9				-1031.4			
C <sub>2</sub> HF <sub>5</sub>	Pentafluoroethane									-1100.4			
C <sub>2</sub> H <sub>2</sub>	Acetylene									227.4	209.9	200.9	44.0
C <sub>2</sub> H <sub>2</sub> Br <sub>3</sub>	2-Bromo-1,1,1-trifluoroethane									-694.5			
C <sub>2</sub> H <sub>2</sub> Br <sub>2</sub>	<i>cis</i> -1,2-Dibromoethene											311.3	68.8
C <sub>2</sub> H <sub>2</sub> Br <sub>2</sub>	<i>trans</i> -1,2-Dibromoethene											313.5	70.3
C <sub>2</sub> H <sub>2</sub> Br <sub>2</sub> Cl <sub>2</sub>	1,2-Dibromo-1,2-dichloroethane									-36.9			
C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>	1,1,2,2-Tetrabromoethane								165.7				
C <sub>2</sub> H <sub>2</sub> ClF <sub>3</sub>	2-Chloro-1,1,1-trifluoroethane											326.5	89.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	1,1-Dichloroethene					-23.9	24.1	201.5	111.3	2.8	25.4	289.0	67.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	<i>cis</i> -1,2-Dichloroethene					-26.4		198.4	116.4	4.6		289.6	65.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	<i>trans</i> -1,2-Dichloroethene					-24.3	27.3	195.9	116.8	5.0	28.6	290.0	66.7
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O	Chloroacetyl chloride					-283.7				-244.8			
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O <sub>2</sub>	Dichloroacetic acid					-496.3							
C <sub>2</sub> H <sub>2</sub> Cl <sub>3</sub> NO	2,2,2-Trichloroacetamide	-358.0											
C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,1,2-Tetrachloroethane											356.0	102.7
C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,2,2-Tetrachloroethane					-195.0		246.9	162.3	-149.2		362.8	100.8
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	1,1-Difluoroethene									-335.0		266.2	60.1
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	<i>cis</i> -1,2-Difluoroethene											268.3	58.2
C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> I	1,1,1-Trifluoro-2-iodoethane									-644.5			
C <sub>2</sub> H <sub>2</sub> I <sub>2</sub>	<i>cis</i> -1,2-Diiodoethene									-207.4			
C <sub>2</sub> H <sub>2</sub> O	Ketene					-67.9				-47.5	-48.3	247.6	51.8
C <sub>2</sub> H <sub>2</sub> O <sub>2</sub>	Glyoxal									-212.0	-189.7	272.5	60.6
C <sub>2</sub> H <sub>2</sub> O <sub>4</sub>	Oxalic acid	-829.9		109.8	91.0					-731.8	-662.7	320.6	86.2
C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> Sr	Strontium formate	-1393.3											
C <sub>2</sub> H <sub>2</sub> S	Thiirene									300.0	275.8	255.3	54.7
C <sub>2</sub> H <sub>3</sub> Br	Bromoethene									79.2	81.8	275.8	55.5
C <sub>2</sub> H <sub>3</sub> BrO	Acetyl bromide					-223.5				-190.4			
C <sub>2</sub> H <sub>3</sub> BrO <sub>2</sub>	Bromoacetic acid									-383.5	-338.3	337.0	80.5
C <sub>2</sub> H <sub>3</sub> Cl	Chloroethene	-94.1			59.4	14.6				37.2	53.6	264.0	53.7
C <sub>2</sub> H <sub>3</sub> ClF <sub>2</sub>	1-Chloro-1,1-difluoroethane											307.2	82.5
C <sub>2</sub> H <sub>3</sub> ClO	Acetyl chloride					-272.9	-208.0	200.8	117.0	-242.8	-205.8	295.1	67.8
C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	Chloroacetic acid	-509.7								-427.6	-368.5	325.9	78.8









Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	Methyl acrylate					-362.2		239.5	158.8	-333.0			
C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	$\gamma$ -Butyrolactone					-420.9			141.4	-366.5			
C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>	Acetic anhydride					-624.4				-572.5			
C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>	Propylene carbonate					-613.2			218.6	-582.5			
C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	Succinic acid	-940.5		167.3	153.1					-823.0			
C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	Dimethyl oxalate	-756.3								-708.9			
C <sub>4</sub> H <sub>6</sub> S	2,3-Dihydrothiophene					52.9				90.7	133.5	303.5	79.8
C <sub>4</sub> H <sub>6</sub> S	2,5-Dihydrothiophene					47.0				86.9	131.6	297.1	83.3
C <sub>4</sub> H <sub>7</sub> ClO	2-Chloroethyl vinyl ether					-208.1				-170.1			
C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub>	2-Chlorobutanoic acid					-575.5							
C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub>	3-Chlorobutanoic acid					-566.3							
C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub>	4-Chlorobutanoic acid					-566.3							
C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub>	Propyl chlorocarbonate					-533.4				-492.7			
C <sub>4</sub> H <sub>7</sub> N	Butanenitrile					-5.8				33.6			
C <sub>4</sub> H <sub>7</sub> N	2-Methylpropanenitrile					-13.8				23.4			
C <sub>4</sub> H <sub>7</sub> NO	Acetone cyanohydrin					-120.9							
C <sub>4</sub> H <sub>7</sub> NO	2-Pyrrolidone					-286.2							
C <sub>4</sub> H <sub>7</sub> NO	2-Methyl-2-oxazoline					-169.5				-130.5			
C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub>	Iminodiacetic acid	-932.6											
C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub>	Ethyl nitroacetate					-487.1							
C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub>	L-Aspartic acid	-973.3											
C <sub>4</sub> H <sub>7</sub> N <sub>3</sub> O	Creatinine	-238.5											
C <sub>4</sub> H <sub>8</sub>	1-Butene					-20.8		227.0	118.0	0.1			
C <sub>4</sub> H <sub>8</sub>	cis-2-Butene					-29.8		219.9	127.0	-7.1			
C <sub>4</sub> H <sub>8</sub>	trans-2-Butene					-33.3				-11.4			
C <sub>4</sub> H <sub>8</sub>	Isobutene					-37.5				-16.9			
C <sub>4</sub> H <sub>8</sub>	Cyclobutane					3.7				27.7			
C <sub>4</sub> H <sub>8</sub>	Methylcyclopropane					1.7							
C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>	1,2-Dibromobutane					-142.1				-91.6			
C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>	1,3-Dibromobutane					-148.0							
C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>	1,4-Dibromobutane					-140.3				-87.8			
C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>	2,3-Dibromobutane					-139.6				-102.0			
C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>	1,2-Dibromo-2-methylpropane					-156.6				-113.3			
C <sub>4</sub> H <sub>8</sub> Cl <sub>2</sub>	1,3-Dichlorobutane					-237.3				-195.0			
C <sub>4</sub> H <sub>8</sub> Cl <sub>2</sub>	1,4-Dichlorobutane					-229.8				-183.4			
C <sub>4</sub> H <sub>8</sub> Cl <sub>2</sub> O	Bis(2-chloroethyl) ether								220.9				
C <sub>4</sub> H <sub>8</sub> I <sub>2</sub>	1,4-Diiodobutane					-30.0							
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>	Succinamide	-581.2											
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>	Dimethylglyoxime	-199.7											
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	L-Asparagine	-789.4											
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	N-Glycylglycine	-747.7											
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>	1,4-Dinitrobutane					-237.5							
C <sub>4</sub> H <sub>8</sub> N <sub>6</sub> O <sub>6</sub>	Cyclotetramethylenetetranitramine									187.9		568.8	275.5
C <sub>4</sub> H <sub>8</sub> O	Ethyl vinyl ether					-167.4				-140.8			
C <sub>4</sub> H <sub>8</sub> O	1,2-Epoxybutane					-168.9		230.9	147.0				
C <sub>4</sub> H <sub>8</sub> O	Butanal					-239.2		246.6	163.7	-204.8		343.7	103.4
C <sub>4</sub> H <sub>8</sub> O	Isobutanal					-247.3				-215.7			
C <sub>4</sub> H <sub>8</sub> O	2-Butanone					-273.3		239.1	158.7	-238.5		339.9	101.7
C <sub>4</sub> H <sub>8</sub> O	Tetrahydrofuran					-216.2		204.3	124.0	-184.1		302.4	76.3
C <sub>4</sub> H <sub>8</sub> OS	S-Ethyl thioacetate					-268.2				-228.1			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Butanoic acid					-533.8		222.2	178.6	-475.9			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	2-Methylpropanoic acid								173.0				
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Propyl formate					-500.3				-462.7			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Ethyl acetate					-479.3		257.7	170.7	-443.6			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Methyl propanoate								171.2				
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	1,3-Dioxane					-379.7			143.9	-340.6			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	1,4-Dioxane					-353.9		270.2	152.1	-315.3			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	2-Methyl-1,3-dioxolane					-386.9				-352.0			
C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> S	Sulfolane								180.0				
C <sub>4</sub> H <sub>8</sub> S	Tetrahydrothiophene					-72.9				-34.1	45.8	309.6	92.5
C <sub>4</sub> H <sub>8</sub> S <sub>2</sub>	1,3-Dithiane									-10.0	72.4	333.5	110.4
C <sub>4</sub> H <sub>8</sub> S <sub>2</sub>	1,4-Dithiane									0.0	84.5	326.2	109.7
C <sub>4</sub> H <sub>9</sub> Br	1-Bromobutane					-143.8				-107.1			
C <sub>4</sub> H <sub>9</sub> Br	2-Bromobutane, ( $\pm$ )					-154.9				-120.3			
C <sub>4</sub> H <sub>9</sub> Br	2-Bromo-2-methylpropane					-164.4				-132.4			
C <sub>4</sub> H <sub>9</sub> Cl	1-Chlorobutane					-188.1				-154.4			





Molecular formula	Name	Crystal				Liquid				Gas				
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	
C <sub>4</sub> H <sub>12</sub> BrN	Tetramethylammonium bromide	-251.0												
C <sub>4</sub> H <sub>12</sub> ClN	Diethylamine hydrochloride	-358.6												
C <sub>4</sub> H <sub>12</sub> ClN	Tetramethylammonium chloride	-276.4												
C <sub>4</sub> H <sub>12</sub> I	Tetramethylammonium iodide	-203.9												
C <sub>4</sub> H <sub>12</sub> N <sub>2</sub>	2-Methyl-1,2-propanediamine					-133.9					-90.3			
C <sub>4</sub> H <sub>12</sub> Pb	Tetramethyl lead					97.9					135.9			
C <sub>4</sub> H <sub>12</sub> Si	Tetramethylsilane					-264.0	-100.0	277.3	204.1		-239.1	-99.9	359.0	143.9
C <sub>4</sub> H <sub>12</sub> Sn	Tetramethylstannane					-52.3					-18.8			
C <sub>4</sub> H <sub>13</sub> N <sub>3</sub>	Bis(2-aminoethyl)amine								254.0					
C <sub>4</sub> N <sub>2</sub>	2-Butynedinitrile					500.4					529.2			
C <sub>4</sub> NiO <sub>4</sub>	Nickel carbonyl					-633.0	-588.2	313.4	204.6		-602.9	-587.2	410.6	145.2
C <sub>5</sub> FeO <sub>5</sub>	Iron pentacarbonyl					-774.0	-705.3	338.1	240.6					
C <sub>5</sub> H <sub>2</sub> F <sub>6</sub> O <sub>2</sub>	Hexafluoroacetylacetone	-2286.7												
C <sub>5</sub> H <sub>3</sub> NO <sub>5</sub>	5-Nitro-2-furancarboxylic acid	-516.8												
C <sub>5</sub> H <sub>4</sub> N <sub>4</sub>	1 <i>H</i> -Purine	169.4												
C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O	Hypoxanthine	-110.8		145.6	134.5									
C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O <sub>2</sub>	Xanthine	-379.6		161.1	151.3									
C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O <sub>3</sub>	Uric acid	-618.8		173.2	166.1									
C <sub>5</sub> H <sub>4</sub> O <sub>2</sub>	Furfural					-201.6			163.2		-151.0			
C <sub>5</sub> H <sub>4</sub> O <sub>3</sub>	2-Furancarboxylic acid	-498.4									-390.0			
C <sub>5</sub> H <sub>4</sub> O <sub>3</sub>	3-Methyl-2,5-furandione					-504.5					-447.2			
C <sub>5</sub> H <sub>3</sub> F <sub>3</sub> O <sub>2</sub>	1,1,1-Trifluoro-2,4-pentanedione					-1040.2					-993.3			
C <sub>5</sub> H <sub>5</sub> N	Pyridine					100.2			132.7		140.4			
C <sub>5</sub> H <sub>5</sub> NO	1 <i>H</i> -Pyrrole-2-carboxaldehyde	-106.4												
C <sub>5</sub> H <sub>5</sub> N <sub>5</sub>	Adenine	96.9			147.0						205.7			
C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> O	Guanine	-183.9												
C <sub>5</sub> H <sub>6</sub>	<i>cis</i> -3-Penten-1-yne					226.5								
C <sub>5</sub> H <sub>6</sub>	<i>trans</i> -3-Penten-1-yne					228.2								
C <sub>5</sub> H <sub>6</sub>	1,3-Cyclopentadiene					105.9					134.3			
C <sub>5</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	Thymine	-462.8			150.8						-328.7			
C <sub>5</sub> H <sub>6</sub> O <sub>2</sub>	Furfuryl alcohol					-276.2			204.0		-211.8			
C <sub>5</sub> H <sub>6</sub> O <sub>4</sub>	<i>trans</i> -1-Propene-1,2-dicarboxylic acid	-824.4												
C <sub>5</sub> H <sub>6</sub> S	2-Methylthiophene					44.6		218.5	149.8		83.5			
C <sub>5</sub> H <sub>6</sub> S	3-Methylthiophene					43.1					82.5			
C <sub>5</sub> H <sub>7</sub> N	<i>trans</i> -3-Pentenitrile					80.9					125.7			
C <sub>5</sub> H <sub>7</sub> N	Cyclobutanecarbonitrile					103.0					147.4			
C <sub>5</sub> H <sub>7</sub> N	1-Methylpyrrole					62.4					103.1			
C <sub>5</sub> H <sub>7</sub> N	2-Methylpyrrole					23.3					74.0			
C <sub>5</sub> H <sub>7</sub> N	3-Methylpyrrole					20.5					70.2			
C <sub>5</sub> H <sub>7</sub> NO <sub>2</sub>	Ethyl cyanoacetate								220.2					
C <sub>5</sub> H <sub>8</sub>	1,2-Pentadiene										140.7			
C <sub>5</sub> H <sub>8</sub>	<i>cis</i> -1,3-Pentadiene										81.4			
C <sub>5</sub> H <sub>8</sub>	<i>trans</i> -1,3-Pentadiene										76.1			
C <sub>5</sub> H <sub>8</sub>	1,4-Pentadiene										105.7			
C <sub>5</sub> H <sub>8</sub>	2,3-Pentadiene										133.1			
C <sub>5</sub> H <sub>8</sub>	3-Methyl-1,2-butadiene					101.2								
C <sub>5</sub> H <sub>8</sub>	2-Methyl-1,3-butadiene					48.2		229.3	152.6		75.5			
C <sub>5</sub> H <sub>8</sub>	Cyclopentene					4.3		201.2	122.4		34.0			
C <sub>5</sub> H <sub>8</sub>	Spiropentane					157.5		193.7	134.5		185.2			
C <sub>5</sub> H <sub>8</sub>	Methylenecyclobutane					93.8					121.6			
C <sub>5</sub> H <sub>8</sub> N <sub>4</sub> O <sub>12</sub>	Pentaerythritol tetranitrate	-538.6											614.7	294.8
C <sub>5</sub> H <sub>8</sub> O	Cyclopentanone					-235.9					-192.1			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	4-Pentenoic acid					-430.6								
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Allyl acetate								184.1					
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Ethyl acrylate					-370.6					-354.2			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Methyl <i>trans</i> -2-butenate					-382.9					-341.9			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Methyl methacrylate								191.2					
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	2,4-Pentanedione					-423.8					-382.0			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Dihydro-4-methyl-2(3 <i>H</i> )-furanone					-461.3					-406.5			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Tetrahydro-2 <i>H</i> -pyran-2-one					-436.7					-379.6			
C <sub>5</sub> H <sub>8</sub> O <sub>3</sub>	Methyl acetoacetate					-623.2								
C <sub>5</sub> H <sub>8</sub> O <sub>4</sub>	Glutaric acid	-960.0												
C <sub>5</sub> H <sub>9</sub> ClO <sub>2</sub>	Propyl chloroacetate					-515.5					-467.0			
C <sub>5</sub> H <sub>9</sub> N	Pentanenitrile					-33.1					10.5			
C <sub>5</sub> H <sub>9</sub> N	2,2-Dimethylpropanenitrile					-39.8		232.0	179.4		-2.3			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>5</sub> H <sub>9</sub> N	1,2,5,6-Tetrahydropyridine					33.5							
C <sub>5</sub> H <sub>9</sub> NO	2-Piperidinone	-306.6											
C <sub>5</sub> H <sub>9</sub> NO	<i>N</i> -Methyl-2-pyrrolidone					-262.2			307.8				
C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>	<i>L</i> -Proline	-515.2								-366.2			
C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	<i>D</i> -Glutamic acid	-1005.3											
C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	<i>L</i> -Glutamic acid	-1009.7											
C <sub>5</sub> H <sub>10</sub>	1-Pentene					-46.9		262.6	154.0	-21.1			
C <sub>5</sub> H <sub>10</sub>	<i>cis</i> -2-Pentene					-53.7		258.6	151.7	-27.6			
C <sub>5</sub> H <sub>10</sub>	<i>trans</i> -2-Pentene					-58.2		256.5	157.0	-31.9			
C <sub>5</sub> H <sub>10</sub>	2-Methyl-1-butene					-61.1		254.0	157.2	-35.2			
C <sub>5</sub> H <sub>10</sub>	3-Methyl-1-butene					-51.5		253.3	156.1	-27.5			
C <sub>5</sub> H <sub>10</sub>	2-Methyl-2-butene					-68.6		251.0	152.8	-41.7			
C <sub>5</sub> H <sub>10</sub>	Cyclopentane					-105.1		204.5	128.8	-76.4			
C <sub>5</sub> H <sub>10</sub>	Methylcyclobutane					-44.5							
C <sub>5</sub> H <sub>10</sub>	Ethylcyclopropane					-24.8							
C <sub>5</sub> H <sub>10</sub>	1,1-Dimethylcyclopropane					-33.3				-8.2			
C <sub>5</sub> H <sub>10</sub>	<i>cis</i> -1,2-Dimethylcyclopropane					-26.3							
C <sub>5</sub> H <sub>10</sub>	<i>trans</i> -1,2-Dimethylcyclopropane					-30.7							
C <sub>5</sub> H <sub>10</sub> Br <sub>2</sub>	2,3-Dibromo-2-methylbutane									-137.6			
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O	<i>N</i> -Nitrosopiperidine					-31.1				16.6			
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>	<i>N</i> -Nitropiperidine					-93.0				-44.5			
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>	<i>L</i> -Glutamine	-826.4											
C <sub>5</sub> H <sub>10</sub> O	Cyclopentanol					-300.1		204.1	182.5	-242.5		362.9	
C <sub>5</sub> H <sub>10</sub> O	Pentanal					-267.2				-228.4			
C <sub>5</sub> H <sub>10</sub> O	2-Pentanone					-297.3			184.1	-258.8			
C <sub>5</sub> H <sub>10</sub> O	3-Pentanone					-296.5		266.0	190.9	-257.9			
C <sub>5</sub> H <sub>10</sub> O	3-Methyl-2-butanone					-299.5		268.5	179.9	-262.6			
C <sub>5</sub> H <sub>10</sub> O	3,3-Dimethyloxetane					-182.2				-148.2			
C <sub>5</sub> H <sub>10</sub> O	Tetrahydropyran					-258.3				-223.4			
C <sub>5</sub> H <sub>10</sub> OS	<i>S</i> -Propyl thioacetate					-294.5				-250.4			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Pentanoic acid					-559.4		259.8	210.3	-491.9			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	2-Methylbutanoic acid					-554.5							
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	3-Methylbutanoic acid					-561.6				-510.0			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	2,2-Dimethylpropanoic acid	-564.5								-491.3			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Butyl formate								200.2				
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Propyl acetate								196.2				
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Isopropyl acetate					-518.9			199.4	-481.6			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Ethyl propanoate					-502.7				-463.4			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Methyl butanoate								198.2				
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	(Ethoxymethyl)oxirane					-296.5							
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	4-Methyl-1,3-dioxane					-416.1				-376.9			
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	<i>cis</i> -1,2-Cyclopentanediol	-485.0											
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	<i>trans</i> -1,2-Cyclopentanediol	-490.1											
C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Tetrahydrofurfuryl alcohol					-435.7				-369.1			
C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	Diethyl carbonate					-681.5				-637.9			
C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	Ethylene glycol monomethyl ether acetate								310.0				
C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	Ethyl lactate								254.0				
C <sub>5</sub> H <sub>10</sub> O <sub>4</sub>	Glycerol 1-acetate, ( <i>DL</i> )					-909.2							
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	<i>D</i> -Ribose	-1047.2											
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	<i>D</i> -Xylose	-1057.8											
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	$\alpha$ - <i>D</i> -Arabinopyranose	-1057.9											
C <sub>5</sub> H <sub>10</sub> S	Thiacyclohexane					-106.3		218.2	163.3	-63.5	53.1	323.0	109.7
C <sub>5</sub> H <sub>10</sub> S	Cyclopentanethiol					-89.5		256.9	165.2	-48.1			
C <sub>5</sub> H <sub>11</sub> Br	1-Bromopentane					-170.2				-128.9			
C <sub>5</sub> H <sub>11</sub> Cl	1-Chloropentane					-213.2				-174.9			
C <sub>5</sub> H <sub>11</sub> Cl	1-Chloro-3-methylbutane					-216.0				-179.7			
C <sub>5</sub> H <sub>11</sub> Cl	2-Chloro-2-methylbutane					-235.7				-202.2			
C <sub>5</sub> H <sub>11</sub> Cl	2-Chloro-3-methylbutane					-226.6				-185.1			
C <sub>5</sub> H <sub>11</sub> N	Cyclopentylamine					-95.1		241.0	181.2	-54.9			
C <sub>5</sub> H <sub>11</sub> N	Piperidine					-86.4		210.0	179.9	-47.1			
C <sub>5</sub> H <sub>11</sub> NO	Pentanamide	-379.5								-290.2			
C <sub>5</sub> H <sub>11</sub> NO	2,2-Dimethylpropanamide	-399.7								-313.1			
C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	1-Nitropentane					-215.4				-164.4		390.9	137.1
C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	<i>DL</i> -Valine	-628.9											
C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	<i>L</i> -Valine	-617.9								-455.1			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	5-Aminopentanoic acid	-604.1								-460.0			
C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S	L-Methionine	-577.5								-413.5			
C <sub>5</sub> H <sub>11</sub> NO <sub>4</sub>	2-Ethyl-2-nitro-1,3-propanediol	-606.4											
C <sub>5</sub> H <sub>12</sub>	Pentane					-173.5			167.2	-146.9			
C <sub>5</sub> H <sub>12</sub>	Isopentane					-178.4		260.4	164.8	-153.6			
C <sub>5</sub> H <sub>12</sub>	Neopentane					-190.2				-168.0			
C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O	Butylurea	-419.5											
C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O	<i>tert</i> -Butylurea	-417.4											
C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O	<i>N,N</i> -Diethylurea	-372.2											
C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O	Tetramethylurea					-262.2							
C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> S	Tetramethylthiourea	-38.1								44.9			
C <sub>5</sub> H <sub>12</sub> O	1-Pentanol					-351.6			208.1	-294.6			
C <sub>5</sub> H <sub>12</sub> O	2-Pentanol					-365.2				-311.0			
C <sub>5</sub> H <sub>12</sub> O	3-Pentanol					-368.9			239.7	-314.9			
C <sub>5</sub> H <sub>12</sub> O	2-Methyl-1-butanol, ( $\pm$ )					-356.6				-301.4			
C <sub>5</sub> H <sub>12</sub> O	3-Methyl-1-butanol					-356.4				-300.7			
C <sub>5</sub> H <sub>12</sub> O	2-Methyl-2-butanol					-379.5			247.1	-329.3			
C <sub>5</sub> H <sub>12</sub> O	3-Methyl-2-butanol, ( $\pm$ )					-366.6				-313.5			
C <sub>5</sub> H <sub>12</sub> O	2,2-Dimethyl-1-propanol					-399.4							
C <sub>5</sub> H <sub>12</sub> O	Butyl methyl ether					-290.6		295.3	192.7	-258.1			
C <sub>5</sub> H <sub>12</sub> O	Methyl <i>tert</i> -butyl ether					-313.6		265.3	187.5	-283.7			
C <sub>5</sub> H <sub>12</sub> O	Ethyl propyl ether					-303.6		295.0	197.2	-272.0			
C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>	1,5-Pentenediol					-528.8				-450.8			
C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>	2,2-Dimethyl-1,3-propanediol	-551.2											
C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>	Diethoxymethane					-450.5				-414.7			
C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>	1,1-Dimethoxypropane					-443.6							
C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>	2,2-Dimethoxypropane					-459.4				-429.9			
C <sub>5</sub> H <sub>12</sub> O <sub>3</sub>	Diethylene glycol monomethyl ether								271.1				
C <sub>5</sub> H <sub>12</sub> O <sub>3</sub>	2-(Hydroxymethyl)-2-methyl-1,3-propanediol	-744.6											
C <sub>5</sub> H <sub>12</sub> O <sub>4</sub>	Pentaerythritol	-920.6								-776.7			
C <sub>5</sub> H <sub>12</sub> O <sub>5</sub>	Xylitol	-1118.5											
C <sub>5</sub> H <sub>12</sub> S	1-Pentanethiol					-151.3				-110.0			
C <sub>5</sub> H <sub>12</sub> S	2-Methyl-1-butanethiol, (+)					-154.4				-114.9			
C <sub>5</sub> H <sub>12</sub> S	3-Methyl-1-butanethiol					-154.4				-114.9			
C <sub>5</sub> H <sub>12</sub> S	2-Methyl-2-butanethiol					-162.8		290.1	198.1	-127.1			
C <sub>5</sub> H <sub>12</sub> S	3-Methyl-2-butanethiol					-158.8				-121.3			
C <sub>5</sub> H <sub>12</sub> S	2,2-Dimethyl-1-propanethiol					-165.4				-129.0			
C <sub>5</sub> H <sub>12</sub> S	Butyl methyl sulfide					-142.9		307.5	200.9	-102.4			
C <sub>5</sub> H <sub>12</sub> S	<i>tert</i> -Butyl methyl sulfide					-157.1		276.1	199.9	-121.3			
C <sub>5</sub> H <sub>12</sub> S	Ethyl propyl sulfide					-144.8		309.5	198.4	-104.8			
C <sub>5</sub> H <sub>12</sub> S	Ethyl isopropyl sulfide					-156.1				-118.3			
C <sub>5</sub> H <sub>13</sub> N	Pentylamine								218.0				
C <sub>5</sub> H <sub>14</sub> N <sub>2</sub>	<i>N,N,N',N'</i> - Tetramethylmethanediamine					-51.1				-18.2			
C <sub>6</sub> ClF <sub>5</sub>	Chloropentafluorobenzene	-858.4								-809.3			
C <sub>6</sub> Cl <sub>6</sub>	Hexachlorobenzene	-127.6		260.2	201.2					-35.5			
C <sub>6</sub> F <sub>6</sub>	Hexafluorobenzene					-991.3			280.8	221.6	-955.4		
C <sub>6</sub> F <sub>10</sub>	Perfluorocyclohexene					-1963.5				-1932.7			
C <sub>6</sub> F <sub>12</sub>	Perfluorocyclohexane					-2406.3				-2370.4			
C <sub>6</sub> HCl <sub>5</sub> O	Pentachlorophenol	-292.5		253.2	202.0								
C <sub>6</sub> HF <sub>5</sub>	Pentafluorobenzene	-852.7				-841.8				-806.5			
C <sub>6</sub> HF <sub>5</sub> O	Pentafluorophenol	-1024.1				-1007.7							
C <sub>6</sub> H <sub>2</sub> F <sub>4</sub>	1,2,4,5-Tetrafluorobenzene					-683.8							
C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>	1,2,3-Trichlorobenzene	-70.8								3.8			
C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>	1,2,4-Trichlorobenzene					-63.1				-8.1			
C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>	1,3,5-Trichlorobenzene	-78.4								-13.4			
C <sub>6</sub> H <sub>3</sub> N <sub>3</sub> O <sub>6</sub>	1,3,5-Trinitrobenzene	-37.0			214.6								
C <sub>6</sub> H <sub>3</sub> N <sub>3</sub> O <sub>7</sub>	2,4,6-Trinitrophenol	-217.9			239.7								
C <sub>6</sub> H <sub>3</sub> N <sub>3</sub> O <sub>8</sub>	2,4,6-Trinitro-1,3-benzenediol	-467.5											
C <sub>6</sub> H <sub>4</sub> ClNO <sub>2</sub>	1-Chloro-4-nitrobenzene	-48.7			250.2								
C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	<i>o</i> -Dichlorobenzene					-17.5			162.4	30.2			
C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	<i>m</i> -Dichlorobenzene					-20.7				25.7			
C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	<i>p</i> -Dichlorobenzene	-42.3		175.4	147.8					22.5			
C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub> O	2,4-Dichlorophenol	-226.4								-156.3			
C <sub>6</sub> H <sub>4</sub> F <sub>2</sub>	<i>o</i> -Difluorobenzene					-330.0			222.6	159.0	-293.8		
C <sub>6</sub> H <sub>4</sub> F <sub>2</sub>	<i>m</i> -Difluorobenzene					-343.9			223.8	159.1	-309.2		



Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>6</sub> H <sub>10</sub>	1,5-Hexadiene					54.1				84.2			
C <sub>6</sub> H <sub>10</sub>	3,3-Dimethyl-1-butyne					78.4							
C <sub>6</sub> H <sub>10</sub>	Cyclohexene					-38.5		214.6	148.3	-5.0			
C <sub>6</sub> H <sub>10</sub>	1-Methylcyclopentene					-36.4				-3.8			
C <sub>6</sub> H <sub>10</sub>	3-Methylcyclopentene					-23.7				7.4			
C <sub>6</sub> H <sub>10</sub>	4-Methylcyclopentene					-17.6				14.6			
C <sub>6</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>2</sub>	Butyl dichloroacetate					-550.1				-497.8			
C <sub>6</sub> H <sub>10</sub> O	Cyclohexanone					-271.2			182.2	-226.1			
C <sub>6</sub> H <sub>10</sub> O	2-Methylcyclopentanone					-265.2							
C <sub>6</sub> H <sub>10</sub> O	Mesityl oxide								212.5				
C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>	Ethyl <i>trans</i> -2-butenolate					-420.0				-375.6			
C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>	Methyl cyclobutanecarboxylate					-395.0				-350.2			
C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	Ethyl acetoacetate								248.0				
C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	Propanoic anhydride					-679.1				-626.5			
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Adipic acid	-994.3											
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Diethyl oxalate					-805.5				-742.0			
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Ethylene glycol diacetate								310.0				
C <sub>6</sub> H <sub>11</sub> Cl	Chlorocyclohexane					-207.2				-163.7			
C <sub>6</sub> H <sub>11</sub> ClO <sub>2</sub>	Ethyl 4-chlorobutanolate					-566.5				-513.8			
C <sub>6</sub> H <sub>11</sub> ClO <sub>2</sub>	Propyl 3-chloropropanoate					-537.6				-485.7			
C <sub>6</sub> H <sub>11</sub> ClO <sub>2</sub>	Butyl chloroacetate					-538.4				-487.4			
C <sub>6</sub> H <sub>11</sub> NO	Caprolactam	-329.4			156.8					-239.6			
C <sub>6</sub> H <sub>11</sub> NO	1-Methyl-2-piperidinone					-293.0							
C <sub>6</sub> H <sub>12</sub>	1-Hexene					-74.2		295.2	183.3	-43.5			
C <sub>6</sub> H <sub>12</sub>	<i>cis</i> -2-Hexene					-83.9				-52.3			
C <sub>6</sub> H <sub>12</sub>	<i>trans</i> -2-Hexene					-85.5				-53.9			
C <sub>6</sub> H <sub>12</sub>	<i>cis</i> -3-Hexene					-78.9				-47.6			
C <sub>6</sub> H <sub>12</sub>	<i>trans</i> -3-Hexene					-86.1				-54.4			
C <sub>6</sub> H <sub>12</sub>	2-Methyl-1-pentene					-90.0				-59.4			
C <sub>6</sub> H <sub>12</sub>	3-Methyl-1-pentene					-78.2				-49.5			
C <sub>6</sub> H <sub>12</sub>	4-Methyl-1-pentene					-80.0				-51.3			
C <sub>6</sub> H <sub>12</sub>	2-Methyl-2-pentene					-98.5				-66.9			
C <sub>6</sub> H <sub>12</sub>	3-Methyl- <i>cis</i> -2-pentene					-94.5				-62.3			
C <sub>6</sub> H <sub>12</sub>	3-Methyl- <i>trans</i> -2-pentene					-94.6				-63.1			
C <sub>6</sub> H <sub>12</sub>	4-Methyl- <i>cis</i> -2-pentene					-87.0				-57.5			
C <sub>6</sub> H <sub>12</sub>	4-Methyl- <i>trans</i> -2-pentene					-91.6				-61.5			
C <sub>6</sub> H <sub>12</sub>	2-Ethyl-1-butene					-87.1				-56.0			
C <sub>6</sub> H <sub>12</sub>	2,3-Dimethyl-1-butene					-93.2				-62.4			
C <sub>6</sub> H <sub>12</sub>	3,3-Dimethyl-1-butene					-87.5				-60.3			
C <sub>6</sub> H <sub>12</sub>	2,3-Dimethyl-2-butene					-101.4		270.2	174.7	-68.1			
C <sub>6</sub> H <sub>12</sub>	Cyclohexane					-156.4			154.9	-123.4			
C <sub>6</sub> H <sub>12</sub>	Methylcyclopentane					-137.9				-106.2			
C <sub>6</sub> H <sub>12</sub>	Ethylcyclobutane					-59.0				-27.5			
C <sub>6</sub> H <sub>12</sub>	1,1,2-Trimethylcyclopropane					-96.2							
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>	L-Cystine	-1032.7											
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> S <sub>4</sub>	Thiram	40.2			301.7								
C <sub>6</sub> H <sub>12</sub> O	Butyl vinyl ether					-218.8			232.0	-182.6			
C <sub>6</sub> H <sub>12</sub> O	Hexanal							280.3	210.4				
C <sub>6</sub> H <sub>12</sub> O	2-Hexanone					-322.0			213.3	-278.9			
C <sub>6</sub> H <sub>12</sub> O	3-Hexanone					-320.2		305.3	216.9	-277.6			
C <sub>6</sub> H <sub>12</sub> O	4-Methyl-2-pentanone								213.3				
C <sub>6</sub> H <sub>12</sub> O	2-Methyl-3-pentanone					-325.9				-286.0			
C <sub>6</sub> H <sub>12</sub> O	3,3-Dimethyl-2-butanone					-328.6				-290.6			
C <sub>6</sub> H <sub>12</sub> O	Cyclohexanol					-348.2			208.2	-286.2			
C <sub>6</sub> H <sub>12</sub> O	<i>cis</i> -2-Methylcyclopentanol					-345.5							
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Hexanoic acid					-583.8				-511.9			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Butyl acetate					-529.2			227.8	-485.3			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	<i>tert</i> -Butyl acetate					-554.5			231.0	-516.5			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Isobutyl acetate								233.8				
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Ethyl butanoate								228.0				
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Methyl pentanoate					-514.2			229.3	-471.1			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Methyl 2,2-dimethylpropanoate					-530.0			257.9	-491.2			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Diacetone alcohol								221.3				
C <sub>6</sub> H <sub>12</sub> O <sub>3</sub>	Ethylene glycol monoethyl ether acetate								376.0				
C <sub>6</sub> H <sub>12</sub> O <sub>3</sub>	Paraldehyde					-673.1				-631.7			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	$\beta$ -D-Fructose	-1265.6											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	D-Galactose	-1286.3											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	$\alpha$ -D-Glucose	-1273.3											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	D-Mannose	-1263.0											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	L-Sorbose	-1271.5											
C <sub>6</sub> H <sub>12</sub> S	Thiepane									-65.8	79.4	363.5	131.3
C <sub>6</sub> H <sub>12</sub> S	Cyclohexanethiol					-140.7		255.6	192.6				-96.2
C <sub>6</sub> H <sub>12</sub> S	Cyclopentyl methyl sulfide					-109.8							-64.7
C <sub>6</sub> H <sub>13</sub> Br	1-Bromohexane					-194.2		453.0	204.0				-148.3
C <sub>6</sub> H <sub>13</sub> Cl	2-Chlorohexane					-246.1							-204.3
C <sub>6</sub> H <sub>13</sub> N	Cyclohexylamine					-147.6							-104.0
C <sub>6</sub> H <sub>13</sub> N	2-Methylpiperidine, ( $\pm$ )					-124.9							-84.4
C <sub>6</sub> H <sub>13</sub> NO	Hexanamide	-423.0											-324.2
C <sub>6</sub> H <sub>13</sub> NO	N-Butylacetamide					-380.9							-305.9
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	DL-Leucine	-640.6											
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	D-Leucine	-637.3											
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	L-Leucine	-637.4			200.1								-486.8
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	DL-Isoleucine	-635.3											
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	L-Isoleucine	-637.8											
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	L-Norleucine	-639.1											
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	6-Aminohexanoic acid	-637.3											
C <sub>6</sub> H <sub>14</sub>	Hexane					-198.7			195.6				-166.9
C <sub>6</sub> H <sub>14</sub>	2-Methylpentane					-204.6		290.6	193.7				-174.6
C <sub>6</sub> H <sub>14</sub>	3-Methylpentane					-202.4		292.5	190.7				-171.9
C <sub>6</sub> H <sub>14</sub>	2,2-Dimethylbutane					-213.8		272.5	191.9				-185.9
C <sub>6</sub> H <sub>14</sub>	2,3-Dimethylbutane					-207.4		287.8	189.7				-178.1
C <sub>6</sub> H <sub>14</sub> N <sub>2</sub>	Azopropane					11.5							51.3
C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>	DL-Lysine	-678.7											
C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	D-Arginine	-623.5		250.6	232.0								
C <sub>6</sub> H <sub>14</sub> O	1-Hexanol					-377.5		287.4	240.4				-315.9
C <sub>6</sub> H <sub>14</sub> O	2-Hexanol					-392.0							-333.5
C <sub>6</sub> H <sub>14</sub> O	3-Hexanol					-392.4			286.2				
C <sub>6</sub> H <sub>14</sub> O	2-Methyl-1-pentanol								248.0				
C <sub>6</sub> H <sub>14</sub> O	3-Methyl-2-pentanol								275.9				
C <sub>6</sub> H <sub>14</sub> O	4-Methyl-2-pentanol					-394.7			273.0				
C <sub>6</sub> H <sub>14</sub> O	2-Methyl-3-pentanol					-396.4							
C <sub>6</sub> H <sub>14</sub> O	3-Methyl-3-pentanol								293.4				
C <sub>6</sub> H <sub>14</sub> O	Dipropyl ether					-328.8		323.9	221.6				-293.0
C <sub>6</sub> H <sub>14</sub> O	Diisopropyl ether					-351.5			216.8				-319.2
C <sub>6</sub> H <sub>14</sub> O	Butyl ethyl ether								159.0				
C <sub>6</sub> H <sub>14</sub> O	tert-Butyl ethyl ether												-313.9
C <sub>6</sub> H <sub>14</sub> OS	Dipropyl sulfoxide					-329.4							-254.9
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,2-Hexanediol					-577.1							-490.1
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,6-Hexanediol	-569.9				-548.6							-461.2
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	2-Methyl-2,4-pentanediol								336.0				
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	Ethylene glycol monobutyl ether								281.0				
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,1-Diethoxyethane					-491.4							-453.5
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	Ethylene glycol diethyl ether					-451.4			259.4				-408.1
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Diethylene glycol monoethyl ether								301.0				
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Diethylene glycol dimethyl ether								274.1				
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Trimethylolpropane	-750.9											
C <sub>6</sub> H <sub>14</sub> O <sub>4</sub>	Triethylene glycol					-804.3							-725.0
C <sub>6</sub> H <sub>14</sub> O <sub>4</sub> S	Dipropyl sulfate					-859.0							-792.0
C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>	Galactitol					-1317.0							
C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>	D-Mannitol					-1314.5							
C <sub>6</sub> H <sub>14</sub> S	1-Hexanethiol					-175.7							-129.9
C <sub>6</sub> H <sub>14</sub> S	2-Methyl-2-pentanethiol					-188.3							-148.3
C <sub>6</sub> H <sub>14</sub> S	2,3-Dimethyl-2-butanethiol					-187.1							-147.9
C <sub>6</sub> H <sub>14</sub> S	Diisopropyl sulfide					-181.6		313.0	232.0				-142.0
C <sub>6</sub> H <sub>14</sub> S	Butyl ethyl sulfide					-172.3							-127.8
C <sub>6</sub> H <sub>14</sub> S	Methyl pentyl sulfide					-167.1							-121.8
C <sub>6</sub> H <sub>14</sub> S <sub>2</sub>	Dipropyl disulfide					-171.5							-118.3
C <sub>6</sub> H <sub>15</sub> B	Triethylborane					-194.6	9.4	336.7	241.2			16.1	437.8
C <sub>6</sub> H <sub>15</sub> N	Dipropylamine					-156.1							-116.0
C <sub>6</sub> H <sub>15</sub> N	Diisopropylamine					-178.5							-143.8
C <sub>6</sub> H <sub>15</sub> N	Triethylamine					-127.7			219.9				-92.7

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>6</sub> H <sub>12</sub> NO	2-Diethylaminoethanol					-305.9							
C <sub>6</sub> H <sub>13</sub> NO <sub>3</sub>	Triethanolamine	-664.2			389.0					-558.3			
C <sub>6</sub> H <sub>16</sub> N <sub>2</sub>	1,6-Hexanediamine	-205.0											
C <sub>6</sub> H <sub>16</sub> N <sub>2</sub> OP	Hexamethylphosphoric triamide								321.0				
C <sub>6</sub> H <sub>16</sub> OSi <sub>2</sub>	Hexamethyldisiloxane					-815.0	-541.5	433.8	311.4	-777.7	-534.5	535.0	238.5
C <sub>6</sub> MoO <sub>5</sub>	Molybdenum hexacarbonyl	-982.8	-877.7	325.9	242.3					-912.1	-856.0	490.0	205.0
C <sub>6</sub> N <sub>4</sub>	Tetracyanoethene	623.8								705.0			
C <sub>7</sub> F <sub>8</sub>	Perfluorotoluene					-1311.1		355.5	262.3				
C <sub>7</sub> F <sub>14</sub>	Perfluoromethylcyclohexane					-2931.1			353.1	-2897.2			
C <sub>7</sub> F <sub>16</sub>	Perfluoroheptane					-3420.0		561.8	419.0	-3383.6			
C <sub>7</sub> H <sub>3</sub> F <sub>5</sub>	2,3,4,5,6-Pentafluorotoluene					-883.8		306.4	225.8	-842.7			
C <sub>7</sub> H <sub>4</sub> Cl <sub>2</sub> O	3-Chlorobenzoyl chloride					-189.7							
C <sub>7</sub> H <sub>4</sub> N <sub>2</sub> O <sub>6</sub>	3,5-Dinitrobenzoic acid	-409.8											
C <sub>7</sub> H <sub>5</sub> ClO	Benzoyl chloride					-158.0				-103.2			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	2-Chlorobenzoic acid	-404.5								-325.0			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	3-Chlorobenzoic acid	-424.3								-342.3			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	4-Chlorobenzoic acid	-428.9			163.2					-341.0			
C <sub>7</sub> H <sub>5</sub> F <sub>3</sub>	(Trifluoromethyl)benzene								188.4				
C <sub>7</sub> H <sub>5</sub> N	Benzonitrile					163.2		209.1	165.2	215.7			
C <sub>7</sub> H <sub>5</sub> NO	Benzoxazole	-24.2								44.8			
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	2-Nitrobenzoic acid	-378.8											
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	3-Nitrobenzoic acid	-394.7											
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	4-Nitrobenzoic acid	-392.2											
C <sub>7</sub> H <sub>3</sub> N <sub>3</sub> O <sub>6</sub>	2,4,6-Trinitrotoluene	-63.2			243.3								
C <sub>7</sub> H <sub>3</sub> N <sub>2</sub>	1 <i>H</i> -Benzimidazole	79.5								181.7			
C <sub>7</sub> H <sub>3</sub> N <sub>2</sub>	1 <i>H</i> -Indazole	151.9								243.0			
C <sub>7</sub> H <sub>3</sub> N <sub>2</sub> O <sub>4</sub>	1-Methyl-2,4-dinitrobenzene	-66.4								33.2			
C <sub>7</sub> H <sub>6</sub> O	Benzaldehyde					-87.0		221.2	172.0	-36.7			
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	Benzoic acid	-385.2		167.6	146.8					-294.0			
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	Salicylaldehyde								222.0				
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	3-(2-Furanyl)-2-propenal	-182.0								-105.9			
C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	2-Hydroxybenzoic acid	-589.9								-494.8			
C <sub>7</sub> H <sub>7</sub> Br	4-Bromotoluene					12.0							
C <sub>7</sub> H <sub>7</sub> Cl	2-Chlorotoluene								166.8				
C <sub>7</sub> H <sub>7</sub> Cl	(Chloromethyl)benzene					-32.5				18.9			
C <sub>7</sub> H <sub>7</sub> F	4-Fluorotoluene					-186.9			171.2	-147.4			
C <sub>7</sub> H <sub>7</sub> NO	Benzamide	-202.6								-100.9			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	Aniline-2-carboxylic acid	-401.1								-296.0			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	Aniline-3-carboxylic acid	-417.3								-283.6			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	Aniline-4-carboxylic acid	-410.0			177.8					-296.7			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	2-Nitrotoluene					-9.7							
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	3-Nitrotoluene					-31.5							
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	4-Nitrotoluene	-48.1			172.3					31.0			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	(Nitromethyl)benzene					-22.8				30.7			
C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	Salicylaldoxime	-183.7											
C <sub>7</sub> H <sub>8</sub>	Toluene					12.4			157.3	50.5			
C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O	Phenylurea	-218.6											
C <sub>7</sub> H <sub>8</sub> O	<i>o</i> -Cresol	-204.6		165.4	154.6					-128.6			
C <sub>7</sub> H <sub>8</sub> O	<i>m</i> -Cresol					-194.0		212.6	224.9	-132.3			
C <sub>7</sub> H <sub>8</sub> O	<i>p</i> -Cresol	-199.3		167.3	150.2					-125.4			
C <sub>7</sub> H <sub>8</sub> O	Benzyl alcohol					-160.7		216.7	217.9	-100.4			
C <sub>7</sub> H <sub>8</sub> O	Anisole					-114.8				-67.9			
C <sub>7</sub> H <sub>9</sub> N	Benzylamine					34.2			207.2	94.4			
C <sub>7</sub> H <sub>9</sub> N	2-Methylaniline					-6.3				56.4	167.6	351.0	130.2
C <sub>7</sub> H <sub>9</sub> N	3-Methylaniline					-8.1				54.6	165.4	352.5	125.5
C <sub>7</sub> H <sub>9</sub> N	4-Methylaniline	-23.5								55.3	167.7	347.0	126.2
C <sub>7</sub> H <sub>9</sub> N	<i>N</i> -Methylaniline								207.1				
C <sub>7</sub> H <sub>9</sub> N	1-Cyclohexenecarbonitrile					48.1				101.6			
C <sub>7</sub> H <sub>9</sub> N	2,3-Dimethylpyridine					19.4		243.7	189.5	67.1			
C <sub>7</sub> H <sub>9</sub> N	2,4-Dimethylpyridine					16.1		248.5	184.8	63.6			
C <sub>7</sub> H <sub>9</sub> N	2,5-Dimethylpyridine					18.7		248.8	184.7	66.5			
C <sub>7</sub> H <sub>9</sub> N	2,6-Dimethylpyridine					12.7		244.2	185.2	58.1			
C <sub>7</sub> H <sub>9</sub> N	3,4-Dimethylpyridine					18.3		240.7	191.8	68.8			
C <sub>7</sub> H <sub>9</sub> N	3,5-Dimethylpyridine					22.5		241.7	184.5	72.0			
C <sub>7</sub> H <sub>10</sub> O <sub>2</sub>	Ethyl 2-pentynoate					-301.8				-250.3			
C <sub>7</sub> H <sub>10</sub> O <sub>2</sub>	Methyl 2-hexynoate					-242.7							

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>7</sub> H <sub>17</sub> Cl <sub>3</sub> O <sub>2</sub>	Isopentyl trichloroacetate					-580.9				-523.1			
C <sub>7</sub> H <sub>11</sub> N	Cyclohexanecarbonitrile					-47.2				4.8			
C <sub>7</sub> H <sub>12</sub>	Bicyclo[2.2.1]heptane	-95.1			151.0					-54.8			
C <sub>7</sub> H <sub>12</sub>	1-Methylbicyclo(3,1,0)hexane					-33.2				1.7			
C <sub>7</sub> H <sub>12</sub>	Methylenecyclohexane					-61.3				-25.2			
C <sub>7</sub> H <sub>12</sub>	Vinylcyclopentane					-34.8							
C <sub>7</sub> H <sub>12</sub>	1-Ethylcyclopentene					-53.3				-19.8			
C <sub>7</sub> H <sub>12</sub> O	2-Methylenecyclohexanol					-277.6							
C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	Butyl acrylate					-422.6			251.0	-375.3			
C <sub>7</sub> H <sub>12</sub> O <sub>4</sub>	Diethyl malonate								285.0				
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Butyl 2-chloropropanoate					-571.7				-517.3			
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Isobutyl 2-chloropropanoate					-603.1				-549.6			
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Butyl 3-chloropropanoate					-557.9				-502.3			
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Isobutyl 3-chloropropanoate					-572.6				-517.3			
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Propyl 2-chlorobutanoate					-630.7				-578.4			
C <sub>7</sub> H <sub>13</sub> N	Heptanenitrile					-82.8				-31.0			
C <sub>7</sub> H <sub>14</sub>	1-Heptene					-97.9		327.6	211.8	-62.3			
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -2-Heptene					-105.1							
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -2-Heptene					-109.5							
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -3-Heptene					-104.3							
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -3-Heptene					-109.3							
C <sub>7</sub> H <sub>14</sub>	5-Methyl-1-hexene					-100.0				-65.7			
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -3-Methyl-3-hexene					-115.9				-79.4			
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -3-Methyl-3-hexene					-112.7				-76.8			
C <sub>7</sub> H <sub>14</sub>	2,4-Dimethyl-1-pentene					-117.0				-83.8			
C <sub>7</sub> H <sub>14</sub>	4,4-Dimethyl-1-pentene					-110.6				-81.6			
C <sub>7</sub> H <sub>14</sub>	2,4-Dimethyl-2-pentene					-123.1				-88.7			
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -4,4-Dimethyl-2-pentene					-105.3				-72.6			
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -4,4-Dimethyl-2-pentene					-121.7				-88.8			
C <sub>7</sub> H <sub>14</sub>	2-Ethyl-3-methyl-1-butene					-114.1				-79.5			
C <sub>7</sub> H <sub>14</sub>	2,3,3-Trimethyl-1-butene					-117.7				-85.5			
C <sub>7</sub> H <sub>14</sub>	Cycloheptane					-156.6				-118.1			
C <sub>7</sub> H <sub>14</sub>	Methylcyclohexane					-190.1			184.8	-154.7			
C <sub>7</sub> H <sub>14</sub>	Ethylcyclopentane					-163.4		279.9		-126.9			
C <sub>7</sub> H <sub>14</sub>	1,1-Dimethylcyclopentane					-172.1				-138.2			
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -1,2-Dimethylcyclopentane					-165.3		269.2		-129.5			
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -1,2-Dimethylcyclopentane					-171.2				-136.6			
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -1,3-Dimethylcyclopentane					-170.1				-135.8			
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -1,3-Dimethylcyclopentane					-168.1				-133.6			
C <sub>7</sub> H <sub>14</sub>	1,1,2,2-Tetramethylcyclopropane					-119.8							
C <sub>7</sub> H <sub>14</sub> Br <sub>2</sub>	1,2-Dibromoheptane					-212.3				-157.9			
C <sub>7</sub> H <sub>14</sub> O	1-Heptanal					-311.5		335.4	230.1	-263.8			
C <sub>7</sub> H <sub>14</sub> O	2-Heptanone								232.6				
C <sub>7</sub> H <sub>14</sub> O	3-Heptanone									-297.1			
C <sub>7</sub> H <sub>14</sub> O	4-Heptanone									-298.3			
C <sub>7</sub> H <sub>14</sub> O	2,2-Dimethyl-3-pentanone					-356.1				-313.6			
C <sub>7</sub> H <sub>14</sub> O	2,4-Dimethyl-3-pentanone					-352.9		318.0	233.7	-311.3			
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -2-Methylcyclohexanol					-390.2				-327.0			
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -2-Methylcyclohexanol, ( $\pm$ )					-415.7				-352.5			
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -3-Methylcyclohexanol, ( $\pm$ )					-416.1				-350.9			
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -3-Methylcyclohexanol, ( $\pm$ )					-394.4				-329.1			
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -4-Methylcyclohexanol					-413.2				-347.5			
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -4-Methylcyclohexanol					-433.3				-367.2			
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Heptanoic acid					-610.2			265.4	-536.2			
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Pentyl acetate								261.0				
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Isopentyl acetate								248.5				
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl pentanoate					-553.0				-505.9			
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl 3-methylbutanoate					-571.0				-527.0			
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl 2,2-dimethylpropanoate					-577.2				-536.0			
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Methyl hexanoate					-540.2				-492.2			
C <sub>7</sub> H <sub>14</sub> O <sub>6</sub>	$\alpha$ -Methylglucoside	-1233.3											
C <sub>7</sub> H <sub>15</sub> Br	1-Bromoheptane					-218.4				-167.8			
C <sub>7</sub> H <sub>16</sub>	Heptane					-224.2			224.7	-187.6			
C <sub>7</sub> H <sub>16</sub>	2-Methylhexane					-229.5		323.3	222.9	-194.5			
C <sub>7</sub> H <sub>16</sub>	3-Methylhexane					-226.4				-191.3			
C <sub>7</sub> H <sub>16</sub>	3-Ethylpentane					-224.9		314.5	219.6	-189.5			



Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>7</sub> H <sub>16</sub>	2,2-Dimethylpentane					-238.3		300.3	221.1	-205.7			
C <sub>7</sub> H <sub>16</sub>	2,3-Dimethylpentane					-233.1				-198.7			
C <sub>7</sub> H <sub>16</sub>	2,4-Dimethylpentane					-234.6		303.2	224.2	-201.6			
C <sub>7</sub> H <sub>16</sub>	3,3-Dimethylpentane					-234.2				-201.0			
C <sub>7</sub> H <sub>16</sub>	2,2,3-Trimethylbutane					-236.5		292.2	213.5	-204.4			
C <sub>7</sub> H <sub>16</sub> O	1-Heptanol					-403.3			272.1	-336.5			
C <sub>7</sub> H <sub>16</sub> O	<i>tert</i> -Butyl isopropyl ether					-392.8				-358.1			
C <sub>7</sub> H <sub>16</sub> O <sub>2</sub>	1,7-Heptanediol					-574.2							
C <sub>7</sub> H <sub>16</sub> O <sub>2</sub>	2,2-Diethoxypropane					-538.9				-506.9			
C <sub>7</sub> H <sub>16</sub> S	1-Heptanethiol					-200.5				-149.9			
C <sub>8</sub> H <sub>6</sub> O <sub>3</sub>	Phthalic anhydride	-460.1		180.0	160.0					-371.4			
C <sub>8</sub> H <sub>5</sub> NO <sub>2</sub>	1 <i>H</i> -Indole-2,3-dione	-268.2											
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Phthalic acid	-782.0		207.9	188.1								
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Isophthalic acid	-803.0								-696.3			
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Terephthalic acid	-816.1								-717.9			
C <sub>8</sub> H <sub>6</sub> S	Benzo[b]thiophene	100.6								166.3			
C <sub>8</sub> H <sub>7</sub> N	1 <i>H</i> -Indole	86.6								156.5			
C <sub>8</sub> H <sub>8</sub>	Styrene					103.8			182.0	147.9			
C <sub>8</sub> H <sub>8</sub> O	Phenyl vinyl ether					-26.2				22.7			
C <sub>8</sub> H <sub>8</sub> O	Acetophenone					-142.5				-86.7			
C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	<i>o</i> -Toluic acid	-416.5			174.9								
C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	<i>m</i> -Toluic acid	-426.1			163.6								
C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	<i>p</i> -Toluic acid	-429.2			169.0								
C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	Methyl benzoate					-343.5			221.3	-287.9			
C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	Methyl salicylate								249.0				
C <sub>8</sub> H <sub>9</sub> NO	Acetanilide	-209.4			179.3								
C <sub>8</sub> H <sub>10</sub>	1,7-Octadiyne					334.4							
C <sub>8</sub> H <sub>10</sub>	Ethylbenzene					-12.3			183.2	29.9			
C <sub>8</sub> H <sub>10</sub>	<i>o</i> -Xylene					-24.4			186.1	19.1			
C <sub>8</sub> H <sub>10</sub>	<i>m</i> -Xylene					-25.4			183.0	17.3			
C <sub>8</sub> H <sub>10</sub>	<i>p</i> -Xylene					-24.4			181.5	18.0			
C <sub>8</sub> H <sub>10</sub> O	2-Ethylphenol					-208.8				-145.2			
C <sub>8</sub> H <sub>10</sub> O	3-Ethylphenol					-214.3				-146.1			
C <sub>8</sub> H <sub>10</sub> O	4-Ethylphenol	-224.4			206.9					-144.1			
C <sub>8</sub> H <sub>10</sub> O	2,3-Xylenol	-241.1								-157.2			
C <sub>8</sub> H <sub>10</sub> O	2,4-Xylenol					-228.7				-163.8			
C <sub>8</sub> H <sub>10</sub> O	2,5-Xylenol	-246.6								-161.6			
C <sub>8</sub> H <sub>10</sub> O	2,6-Xylenol	-237.4								-162.1			
C <sub>8</sub> H <sub>10</sub> O	3,4-Xylenol	-242.3								-157.3			
C <sub>8</sub> H <sub>10</sub> O	3,5-Xylenol	-244.4								-162.4			
C <sub>8</sub> H <sub>10</sub> O	Benzeneethanol								252.6				
C <sub>8</sub> H <sub>10</sub> O	Ethoxybenzene					-152.6			228.5	-101.6			
C <sub>8</sub> H <sub>10</sub> O <sub>2</sub>	1,2-Dimethoxybenzene					-290.3				-223.3			
C <sub>8</sub> H <sub>11</sub> N	<i>N</i> -Ethylaniline					8.2				56.3			
C <sub>8</sub> H <sub>11</sub> N	<i>N,N</i> -Dimethylaniline					46.0				100.5			
C <sub>8</sub> H <sub>11</sub> N	2,4-Dimethylaniline					-39.2							
C <sub>8</sub> H <sub>11</sub> N	2,5-Dimethylaniline					-38.9							
C <sub>8</sub> H <sub>11</sub> N	2,6-Dimethylaniline								238.9				
C <sub>8</sub> H <sub>12</sub>	1-Octen-3-yne					140.7							
C <sub>8</sub> H <sub>12</sub>	<i>cis</i> -1,2-Divinylcyclobutane					124.3				166.5			
C <sub>8</sub> H <sub>12</sub>	<i>trans</i> -1,2-Divinylcyclobutane					101.3				143.5			
C <sub>8</sub> H <sub>12</sub> N <sub>4</sub>	2,2'-Azobis(isobutyronitrile)	246.0			237.6								
C <sub>8</sub> H <sub>12</sub> O <sub>2</sub>	2,2,4,4-Tetramethyl-1,3-cyclobutanedione	-379.9								-307.6			
C <sub>8</sub> H <sub>14</sub>	Ethylidenecyclohexane					-103.5				-59.5			
C <sub>8</sub> H <sub>14</sub>	Allylcyclopentane					-64.5				-24.1			
C <sub>8</sub> H <sub>14</sub> ClN <sub>5</sub>	Atrazine	-125.4											
C <sub>8</sub> H <sub>14</sub> O <sub>3</sub>	Butanoic anhydride								283.7				
C <sub>8</sub> H <sub>15</sub> ClO <sub>2</sub>	3-Methylbutyl 2-chloropropanoate					-627.3				-575.0			
C <sub>8</sub> H <sub>15</sub> ClO <sub>2</sub>	3-Methylbutyl 3-chloropropanoate					-593.4				-539.4			
C <sub>8</sub> H <sub>15</sub> N	Octanenitrile					-107.3				-50.5			
C <sub>8</sub> H <sub>16</sub>	1-Octene					-124.5			241.0	-81.3			
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -2-Octene					-135.7			239.0				
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -2-Octene					-135.7			239.0				
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -2,2-Dimethyl-3-hexene					-126.4				-89.3			
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -2,2-Dimethyl-3-hexene					-144.9				-107.7			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>8</sub> H <sub>16</sub>	3-Ethyl-2-methyl-1-pentene					-137.9				-100.3			
C <sub>8</sub> H <sub>16</sub>	2,4,4-Trimethyl-1-pentene					-145.9				-110.5			
C <sub>8</sub> H <sub>16</sub>	2,4,4-Trimethyl-2-pentene					-142.4				-104.9			
C <sub>8</sub> H <sub>16</sub>	Cyclooctane					-167.7				-124.4			
C <sub>8</sub> H <sub>16</sub>	Ethylcyclohexane					-212.1		280.9	211.8	-171.5			
C <sub>8</sub> H <sub>16</sub>	1,1-Dimethylcyclohexane					-218.7		267.2	209.2	-180.9			
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1,2-Dimethylcyclohexane					-211.8		274.1	210.2	-172.1			
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1,2-Dimethylcyclohexane					-218.2		273.2	209.4	-179.9			
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1,3-Dimethylcyclohexane					-222.9		272.6	209.4	-184.6			
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1,3-Dimethylcyclohexane					-215.7		276.3	212.8	-176.5			
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1,4-Dimethylcyclohexane					-215.6		271.1	212.1	-176.6			
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1,4-Dimethylcyclohexane					-222.4		268.0	210.2	-184.5			
C <sub>8</sub> H <sub>16</sub>	Propylcyclopentane					-188.8		310.8	216.3	-147.7			
C <sub>8</sub> H <sub>16</sub>	1-Ethyl-1-methylcyclopentane					-193.8							
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1-Ethyl-2-methylcyclopentane					-190.8							
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1-Ethyl-2-methylcyclopentane					-195.1				-156.2			
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1-Ethyl-3-methylcyclopentane					-194.4							
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1-Ethyl-3-methylcyclopentane					-196.0							
C <sub>8</sub> H <sub>16</sub> O	Octanal									-291.9		365.4	
C <sub>8</sub> H <sub>16</sub> O	2-Ethylhexanal					-348.5				-299.6			
C <sub>8</sub> H <sub>16</sub> O	2-Octanone								273.3				
C <sub>8</sub> H <sub>16</sub> O	2,2,4-Trimethyl-3-pentanone					-381.6				-338.3			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Octanoic acid					-636.0			297.9	-554.3			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	2-Ethylhexanoic acid					-635.1				-559.5			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Hexyl acetate								282.8				
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Isobutyl isobutanoate					-587.4				-542.9			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Propyl pentanoate					-583.0				-533.6			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Isopropyl pentanoate					-592.2				-544.9			
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Methyl heptanoate					-567.1			285.1	-515.5			
C <sub>8</sub> H <sub>17</sub> Br	1-Bromooctane					-245.1				-189.3			
C <sub>8</sub> H <sub>17</sub> Cl	1-Chlorooctane					-291.3				-238.9			
C <sub>8</sub> H <sub>17</sub> NO	Octanamide	-473.2								-362.7			
C <sub>8</sub> H <sub>18</sub>	Octane					-250.1			254.6	-208.5			
C <sub>8</sub> H <sub>18</sub>	2-Methylheptane					-255.0		356.4	252.0	-215.3			
C <sub>8</sub> H <sub>18</sub>	3-Methylheptane, (S)					-252.3		362.6	250.2	-212.5			
C <sub>8</sub> H <sub>18</sub>	4-Methylheptane					-251.6			251.1	-211.9			
C <sub>8</sub> H <sub>18</sub>	3-Ethylhexane					-250.4				-210.7			
C <sub>8</sub> H <sub>18</sub>	2,2-Dimethylhexane					-261.9				-224.5			
C <sub>8</sub> H <sub>18</sub>	2,3-Dimethylhexane					-252.6				-213.8			
C <sub>8</sub> H <sub>18</sub>	2,4-Dimethylhexane					-257.0				-219.2			
C <sub>8</sub> H <sub>18</sub>	2,5-Dimethylhexane					-260.4			249.2	-222.5			
C <sub>8</sub> H <sub>18</sub>	3,3-Dimethylhexane					-257.5			246.6	-219.9			
C <sub>8</sub> H <sub>18</sub>	3,4-Dimethylhexane					-251.8				-212.8			
C <sub>8</sub> H <sub>18</sub>	3-Ethyl-2-methylpentane					-249.6				-211.0			
C <sub>8</sub> H <sub>18</sub>	3-Ethyl-3-methylpentane					-252.8				-214.8			
C <sub>8</sub> H <sub>18</sub>	2,2,3-Trimethylpentane					-256.9				-220.0			
C <sub>8</sub> H <sub>18</sub>	2,2,4-Trimethylpentane					-259.2			239.1	-224.0			
C <sub>8</sub> H <sub>18</sub>	2,3,3-Trimethylpentane					-253.5			245.6	-216.3			
C <sub>8</sub> H <sub>18</sub>	2,3,4-Trimethylpentane					-255.0		329.3	247.3	-217.3			
C <sub>8</sub> H <sub>18</sub>	2,2,3,3-Tetramethylbutane	-269.0		273.7	239.2					-226.0			
C <sub>8</sub> H <sub>18</sub> N <sub>2</sub>	Azobutane					-40.1				9.2			
C <sub>8</sub> H <sub>18</sub> O	1-Octanol					-426.5			305.2	-355.6			
C <sub>8</sub> H <sub>18</sub> O	2-Octanol								330.1				
C <sub>8</sub> H <sub>18</sub> O	2-Ethyl-1-hexanol					-432.8		347.0	317.5	-365.3			
C <sub>8</sub> H <sub>18</sub> O	Dibutyl ether					-377.9			278.2	-332.8			
C <sub>8</sub> H <sub>18</sub> O	Di- <i>sec</i> -butyl ether					-401.5				-360.6			
C <sub>8</sub> H <sub>18</sub> O	Di- <i>tert</i> -butyl ether					-399.6			276.1	-362.0			
C <sub>8</sub> H <sub>18</sub> O	<i>tert</i> -Butyl isobutyl ether					-409.1				-369.0			
C <sub>8</sub> H <sub>18</sub> O <sub>2</sub>	1,8-Octanediol	-626.6											
C <sub>8</sub> H <sub>18</sub> O <sub>2</sub>	2,5-Dimethyl-2,5-hexanediol	-681.7											
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>	Diethylene glycol monobutyl ether								354.9				
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>	Diethylene glycol diethyl ether								341.4				
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub> S	Dibutyl sulfite					-693.1				-625.3			
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>	Tetraethylene glycol					-981.7			428.8	-883.0			
C <sub>8</sub> H <sub>18</sub> S	Dibutyl sulfide					-220.7		405.1	284.3	-167.7			
C <sub>8</sub> H <sub>18</sub> S	Di- <i>sec</i> -butyl sulfide					-220.7				-167.7			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>8</sub> H <sub>18</sub> S	Di- <i>tert</i> -butyl sulfide					-232.6				-188.8			
C <sub>8</sub> H <sub>18</sub> S	Diisobutyl sulfide					-229.2				-180.5			
C <sub>8</sub> H <sub>18</sub> S <sub>2</sub>	Dibutyl disulfide					-222.9				-160.6			
C <sub>8</sub> H <sub>18</sub> S <sub>2</sub>	Di- <i>tert</i> -butyl disulfide					-255.2				-201.0			
C <sub>8</sub> H <sub>19</sub> N	Dibutylamine					-206.0			292.9	-156.6			
C <sub>8</sub> H <sub>19</sub> N	Diisobutylamine					-218.5				-179.2			
C <sub>8</sub> H <sub>20</sub> BrN	Tetraethylammonium bromide	-342.7											
C <sub>8</sub> H <sub>20</sub> O <sub>4</sub> Si	Ethyl silicate							533.1	364.4				
C <sub>8</sub> H <sub>20</sub> Pb	Tetraethyl lead					52.7		464.6	307.4	109.6			
C <sub>8</sub> H <sub>20</sub> Si	Tetraethylsilane								298.1				
C <sub>8</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>	Toluene-2,4-diisocyanate								287.8				
C <sub>9</sub> H <sub>7</sub> N	Quinoline					141.2				200.5			
C <sub>9</sub> H <sub>7</sub> N	Isoquinoline					144.3		216.0	196.2	204.6			
C <sub>9</sub> H <sub>7</sub> NO	2-Quinolinol	-144.9								-25.5			
C <sub>9</sub> H <sub>7</sub> NO	8-Quinolinol	82.1											
C <sub>9</sub> H <sub>8</sub>	Indene					110.6		215.3	186.9	163.4			
C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	2-(Acetyloxy)benzoic acid	-815.6											
C <sub>9</sub> H <sub>10</sub>	Cyclopropylbenzene					100.3				150.5			
C <sub>9</sub> H <sub>10</sub>	Indan					11.5		56.0	190.2	60.3			
C <sub>9</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O	Diuron	-329.0											
C <sub>9</sub> H <sub>10</sub> N <sub>2</sub>	2,2'-Dipyrrolylmethane	126.2											
C <sub>9</sub> H <sub>10</sub> O <sub>2</sub>	Ethyl benzoate								246.0				
C <sub>9</sub> H <sub>10</sub> O <sub>2</sub>	Benzyl acetate								148.5				
C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>	<i>L</i> -Phenylalanine	-466.9		213.6	203.0					-312.9			
C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub>	<i>L</i> -Tyrosine	-685.1		214.0	216.4								
C <sub>9</sub> H <sub>12</sub>	Propylbenzene					-38.3		287.8	214.7	7.9			
C <sub>9</sub> H <sub>12</sub>	Isopropylbenzene					-41.1			210.7	4.0			
C <sub>9</sub> H <sub>12</sub>	2-Ethyltoluene					-46.4				1.3			
C <sub>9</sub> H <sub>12</sub>	3-Ethyltoluene					-48.7				-1.8			
C <sub>9</sub> H <sub>12</sub>	4-Ethyltoluene					-49.8				-3.2			
C <sub>9</sub> H <sub>12</sub>	1,2,3-Trimethylbenzene					-58.5		267.9	216.4	-9.5			
C <sub>9</sub> H <sub>12</sub>	1,2,4-Trimethylbenzene					-61.8			215.0	-13.8			
C <sub>9</sub> H <sub>12</sub>	1,3,5-Trimethylbenzene					-63.4			209.3	-15.9			
C <sub>9</sub> H <sub>12</sub> O	2-Isopropylphenol					-233.7				-182.2			
C <sub>9</sub> H <sub>12</sub> O	3-Isopropylphenol					-252.5				-196.0			
C <sub>9</sub> H <sub>12</sub> O	4-Isopropylphenol	-270.0								-175.3			
C <sub>9</sub> H <sub>12</sub> O <sub>2</sub>	Isopropylbenzene hydroperoxide					-148.3				-78.4			
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 3,5-dimethylpyrrole-2-carboxylate	-474.5											
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 2,4-dimethylpyrrole-3-carboxylate	-463.2											
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 2,5-dimethylpyrrole-3-carboxylate	-478.7											
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 4,5-dimethylpyrrole-3-carboxylate	-470.3											
C <sub>9</sub> H <sub>14</sub> O	Isophorone								253.5				
C <sub>9</sub> H <sub>14</sub> O <sub>6</sub>	Triacetin					-1330.8		458.3	384.7	-1245.0			
C <sub>9</sub> H <sub>15</sub> N	3-Ethyl-2,4,5-trimethylpyrrole	-89.2											
C <sub>9</sub> H <sub>16</sub>	1-Nonyne					16.3				62.3			
C <sub>9</sub> H <sub>16</sub> O <sub>4</sub>	Nonanedioic acid	-1054.3											
C <sub>9</sub> H <sub>17</sub> NO	2,2,6,6-Tetramethyl-4-piperidinone	-334.2								-273.4			
C <sub>9</sub> H <sub>18</sub>	Propylcyclohexane					-237.4		311.9	242.0	-192.3			
C <sub>9</sub> H <sub>18</sub>	1 $\alpha$ ,3 $\alpha$ ,5 $\beta$ -1,3,5-Trimethylcyclohexane									-212.1			
C <sub>9</sub> H <sub>18</sub> O	2-Nonanone					-397.2				-340.7			
C <sub>9</sub> H <sub>18</sub> O	5-Nonanone					-398.2		401.4	303.6	-344.9			
C <sub>9</sub> H <sub>18</sub> O	2,6-Dimethyl-4-heptanone					-408.5			297.3	-357.6			
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Nonanoic acid					-659.7			362.4	-577.3			
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Butyl pentanoate					-613.3				-560.2			
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	<i>sec</i> -Butyl pentanoate					-624.2				-573.2			
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Isobutyl pentanoate					-620.0				-568.6			
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Methyl octanoate					-590.3				-533.9			
C <sub>9</sub> H <sub>19</sub> N	<i>N</i> -Butylpiperidine					-171.8							
C <sub>9</sub> H <sub>19</sub> N	2,2,6,6-Tetramethylpiperidine					-206.9				-159.9			
C <sub>9</sub> H <sub>20</sub>	Nonane					-274.7			284.4	-228.2			
C <sub>9</sub> H <sub>20</sub>	2,2-Dimethylheptane					-288.1							
C <sub>9</sub> H <sub>20</sub>	2,2,3-Trimethylhexane					-282.7							





Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	Sucrose	-2226.1											
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	$\beta$ -D-Lactose	-2236.7											
C <sub>12</sub> H <sub>24</sub>	1-Dodecene					-226.2		484.8	360.7	-165.4			
C <sub>12</sub> H <sub>24</sub> O <sub>2</sub>	Dodecanoic acid	-774.6			404.3	-737.9				-642.0			
C <sub>12</sub> H <sub>24</sub> O <sub>2</sub>	Methyl undecanoate					-665.2				-593.8			
C <sub>12</sub> H <sub>22</sub> O <sub>12</sub>	$\alpha$ -Lactose monohydrate	-2484.1											
C <sub>12</sub> H <sub>26</sub> Br	1-Bromododecane					-344.7				-269.9			
C <sub>12</sub> H <sub>26</sub> Cl	1-Chlorododecane					-392.3				-321.1			
C <sub>12</sub> H <sub>26</sub>	Dodecane					-350.9			375.8	-289.4			
C <sub>12</sub> H <sub>26</sub> O	1-Dodecanol					-528.5			438.1	-436.6			
C <sub>12</sub> H <sub>26</sub> O <sub>3</sub>	Diethylene glycol dibutyl ether								452.0				
C <sub>12</sub> H <sub>27</sub> N	Tributylamine					-281.6							
C <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	Tributyl phosphate								379.4				
C <sub>13</sub> H <sub>6</sub> O <sub>2</sub>	Xanthone	-191.5											
C <sub>13</sub> H <sub>6</sub> N	Acridine	179.4								273.9			
C <sub>13</sub> H <sub>6</sub> N	Phenanthridine	141.9								240.5			
C <sub>13</sub> H <sub>6</sub> N	Benzo[f]quinoline	150.6								233.7			
C <sub>13</sub> H <sub>10</sub>	9H-Fluorene	89.9		207.3	203.1					175.0			173.1
C <sub>13</sub> H <sub>10</sub> N <sub>2</sub>	9-Acridinamine	159.2											
C <sub>13</sub> H <sub>10</sub> O	Benzophenone	-34.5			224.8					54.9			
C <sub>13</sub> H <sub>11</sub> N	9-Methyl-9H-carbazole	105.5								201.0			
C <sub>13</sub> H <sub>12</sub>	Diphenylmethane	71.5		239.3		89.7				139.0			
C <sub>13</sub> H <sub>13</sub> N	N-Benzylaniline	101.4											
C <sub>13</sub> H <sub>14</sub> N <sub>2</sub>	4,4'-Diaminodiphenylmethane				270.9								
C <sub>13</sub> H <sub>24</sub> O <sub>4</sub>	Tridecanedioic acid	-1148.3											
C <sub>13</sub> H <sub>26</sub>	1-Tridecene								391.8				
C <sub>13</sub> H <sub>26</sub> O <sub>2</sub>	Methyl dodecanoate					-693.0				-614.9			
C <sub>13</sub> H <sub>28</sub>	Tridecane								406.7				
C <sub>13</sub> H <sub>28</sub> O	1-Tridecanol	-599.4											
C <sub>14</sub> H <sub>6</sub> O <sub>2</sub>	9,10-Anthracenedione	-188.5								-75.7			
C <sub>14</sub> H <sub>6</sub> O <sub>2</sub>	9,10-Phenanthrenedione	-154.7								-46.6			
C <sub>14</sub> H <sub>6</sub> O <sub>4</sub>	1,4-Dihydroxy-9,10-anthracenedione	-595.8								-471.7			
C <sub>14</sub> H <sub>10</sub>	Anthracene	129.2		207.5	210.5					230.9			
C <sub>14</sub> H <sub>10</sub>	Phenanthrene	116.2		215.1	220.6					207.5			
C <sub>14</sub> H <sub>10</sub>	Diphenylacetylene	312.4			225.9								
C <sub>14</sub> H <sub>10</sub> O <sub>2</sub>	Benzil	-153.9								-55.5			
C <sub>14</sub> H <sub>10</sub> O <sub>4</sub>	Benzoyl peroxide	-369.4								-281.7			
C <sub>14</sub> H <sub>12</sub>	cis-Stilbene					183.3				252.3			
C <sub>14</sub> H <sub>12</sub>	trans-Stilbene	136.9								236.1			
C <sub>14</sub> H <sub>14</sub>	1,1-Diphenylethane					48.7							
C <sub>14</sub> H <sub>14</sub>	1,2-Diphenylethane	51.5								142.9			
C <sub>14</sub> H <sub>22</sub>	1,3-Di-tert-butylbenzene					-188.8							
C <sub>14</sub> H <sub>22</sub>	1,4-Di-tert-butylbenzene	-212.0											
C <sub>14</sub> H <sub>23</sub> N <sub>3</sub> O <sub>10</sub>	Pentetic acid	-2225.2											
C <sub>14</sub> H <sub>27</sub> N	Tetradecanenitrile					-260.2				-174.9			
C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	Tetradecanoic acid	-833.5			432.0	-788.8				-693.7			
C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	Methyl tridecanoate					-717.9				-635.3			
C <sub>14</sub> H <sub>30</sub> O	1-Tetradecanol	-629.6			388.0	-580.6							
C <sub>15</sub> H <sub>16</sub> O <sub>2</sub>	2,2-Bis(4-hydroxyphenyl)propane	-368.6											
C <sub>15</sub> H <sub>24</sub>	1,3-Di-tert-butyl-5-methylbenzene	-245.8											
C <sub>15</sub> H <sub>24</sub> O	2,6-Di-tert-butyl-4-methylphenol	-410.0								-296.9			
C <sub>15</sub> H <sub>30</sub>	Decylcyclopentane					-367.3							
C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	Pentadecanoic acid	-861.7			443.3	-811.7				-699.0			
C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	Methyl tetradecanoate					-743.9				-656.9			
C <sub>15</sub> H <sub>32</sub> O	1-Pentadecanol	-658.2											
C <sub>16</sub> H <sub>10</sub>	Fluoranthene	189.9		230.6	230.2					289.0			
C <sub>16</sub> H <sub>10</sub>	Pyrene	125.5		224.9	229.7					225.7			
C <sub>16</sub> H <sub>22</sub> O <sub>4</sub>	Dibutyl phthalate					-842.6				-750.9			
C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>	$\alpha$ -D-Glucose pentaacetate	-2249.4											
C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>	$\beta$ -D-Glucose pentaacetate	-2232.6											
C <sub>16</sub> H <sub>26</sub>	Decylbenzene					-218.3				-138.6			
C <sub>16</sub> H <sub>32</sub>	1-Hexadecene					-328.7		587.9	488.9	-248.4			
C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	Hexadecanoic acid	-891.5		452.4	460.7	-838.1				-737.1			
C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	Methyl pentadecanoate					-771.0				-680.0			
C <sub>16</sub> H <sub>33</sub> Br	1-Bromohexadecane					-444.5				-350.2			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>16</sub> H <sub>34</sub>	Hexadecane					-456.1			501.6	-374.8			
C <sub>16</sub> H <sub>34</sub> O	1-Hexadecanol	-686.5			422.0					-517.0			
C <sub>16</sub> H <sub>38</sub> I <sub>4</sub> N	Tetrabutylammonium iodide	-498.6											
C <sub>17</sub> H <sub>34</sub> O <sub>2</sub>	Heptadecanoic acid	-924.4			475.7	-865.6							
C <sub>18</sub> H <sub>12</sub>	Benz[ <i>a</i> ]anthracene	170.8								293.0			
C <sub>18</sub> H <sub>12</sub>	Chrysene	145.3								269.8			
C <sub>18</sub> H <sub>14</sub>	<i>o</i> -Terphenyl			298.8	274.8			337.1	369.1				
C <sub>18</sub> H <sub>14</sub>	<i>p</i> -Terphenyl	163.0		285.6	278.7					279.0			
C <sub>18</sub> H <sub>15</sub> N	Triphenylamine	234.7								326.8			
C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P	Triphenyl phosphate			397.5	356.2								
C <sub>18</sub> H <sub>15</sub> P	Triphenylphosphine				312.5								
C <sub>18</sub> H <sub>30</sub>	1,3,5-Tri- <i>tert</i> -butylbenzene	-320.0											
C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	Oleic acid								577.0				
C <sub>18</sub> H <sub>34</sub> O <sub>4</sub>	Dibutyl sebacate								619.0				
C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>	Stearic acid	-947.7			501.5	-884.7				-781.2			
C <sub>18</sub> H <sub>37</sub> Cl	1-Chlorooctadecane					-544.1				-446.0			
C <sub>18</sub> H <sub>38</sub>	Octadecane	-567.4		480.2	485.6					-414.6			
C <sub>18</sub> H <sub>39</sub> N	Trihexylamine					-433.0							
C <sub>19</sub> H <sub>15</sub> O	Triphenylmethanol	-2.5											
C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	Methyl oleate					-734.5				-649.9			
C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	Methyl <i>trans</i> -9-octadecenoate					-737.0							
C <sub>20</sub> H <sub>12</sub>	Perylene	182.8		264.6	274.9								
C <sub>20</sub> H <sub>12</sub>	Benzo[ <i>a</i> ]pyrene											254.8	
C <sub>20</sub> H <sub>14</sub> O <sub>4</sub>	Diphenyl phthalate	-489.2											
C <sub>20</sub> H <sub>36</sub> O <sub>2</sub>	Ethyl oleate					-775.8							
C <sub>20</sub> H <sub>38</sub> O <sub>2</sub>	Ethyl <i>trans</i> -9-octadecenoate					-773.3							
C <sub>20</sub> H <sub>40</sub> O <sub>2</sub>	Eicosanoic acid	-1011.9			545.1	-940.0				-812.4			
C <sub>21</sub> H <sub>27</sub> O <sub>4</sub> P	Tri- <i>o</i> -cresyl phosphate			570.0	578.0								
C <sub>22</sub> H <sub>14</sub>	Dibenz[ <i>a,h</i> ]anthracene											283.9	
C <sub>22</sub> H <sub>42</sub> O <sub>2</sub>	<i>trans</i> -13-Docosenoic acid	-960.7											
C <sub>22</sub> H <sub>42</sub> O <sub>2</sub>	Butyl oleate					-816.9							
C <sub>22</sub> H <sub>44</sub> O <sub>2</sub>	Butyl stearate												
C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	Bis(2-ethylhexyl) phthalate								704.7				
C <sub>24</sub> H <sub>51</sub> N	Trioctylamine					-585.0							
C <sub>26</sub> H <sub>18</sub>	9,10-Diphenylanthracene	308.7								465.6			
C <sub>26</sub> H <sub>54</sub>	5-Butyldocosane					-713.5				-587.6			
C <sub>26</sub> H <sub>54</sub>	11-Butyldocosane					-716.0				-593.4			
C <sub>28</sub> H <sub>18</sub>	9,9'-Bianthracene	326.2								454.3			
C <sub>31</sub> H <sub>64</sub>	11-Decylheneicosane					-848.0				-705.8			
C <sub>32</sub> H <sub>66</sub>	Dotriacontane	-968.3								-697.2			
C <sub>60</sub>	Carbon (fullerene-C <sub>60</sub> )	2327.0	2302.0	426.0	520.0					2502.0	2442.0	544.0	512.0
C <sub>70</sub>	Carbon (fullerene-C <sub>70</sub> )	2555.0	2537.0	464.0	650.0					2755.0	2692.0	614.0	585.0