

# 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
AlB <sub>3</sub> H <sub>12</sub>	Aluminum borohydride					-16.3	145.0	289.1	194.6	13.0	147.0	379.2	
AlBr	Aluminum monobromide									-4.0	-42.0	239.5	35.6

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
AlBr <sub>3</sub>	Aluminum bromide	-527.2		180.2	100.6					-425.1			
AlCl	Aluminum monochloride									-47.7	-74.1	228.1	35.0
AlCl <sub>2</sub>	Aluminum dichloride									-331.0			
AlCl <sub>3</sub>	Aluminum chloride	-704.2	-628.8	109.3	91.1					-583.2			
AlF	Aluminum monofluoride									-258.2	-283.7	215.0	31.9
AlF <sub>3</sub>	Aluminum fluoride	-1510.4	-1431.1	66.5	75.1					-1204.6	-1188.2	277.1	62.6
AlF <sub>4</sub> Na	Sodium tetrafluoroaluminate									-1869.0	-1827.5	345.7	105.9
AlH	Aluminum monohydride									259.2	231.2	187.9	29.4
AlH <sub>3</sub>	Aluminum hydride	-46.0		30.0	40.2								
AlH <sub>4</sub> K	Potassium aluminum hydride	-183.7											
AlH <sub>4</sub> Li	Lithium aluminum hydride	-116.3	-44.7	78.7	83.2								
AlH <sub>4</sub> Na	Sodium aluminum hydride	-115.5											
AlI	Aluminum monoiodide									65.5			36.0
AlI <sub>3</sub>	Aluminum iodide	-302.9		195.9	98.7					-289.4		223.6	
AlN	Aluminum nitride	-318.0	-287.0	20.2	30.1								
AlO	Aluminum monoxide									91.2	65.3	218.4	30.9
AlO <sub>4</sub> P	Aluminum phosphate	-1733.8	-1617.9	90.8	93.2								
AlP	Aluminum phosphide	-166.5											
AlS	Aluminum monosulfide									200.9	150.1	230.6	33.4
Al <sub>2</sub>	Dialuminum									485.9	433.3	233.2	36.4
Al <sub>2</sub> Br <sub>6</sub>	Aluminum hexabromide									-970.7			
Al <sub>2</sub> Cl <sub>6</sub>	Aluminum hexachloride									-1290.8	-1220.4	490.0	
Al <sub>2</sub> F <sub>6</sub>	Aluminum hexafluoride									-2628.0			
Al <sub>2</sub> I <sub>6</sub>	Aluminum hexaiodide									-516.7			
Al <sub>2</sub> O	Aluminum oxide (Al <sub>2</sub> O)									-130.0	-159.0	259.4	45.7
Al <sub>2</sub> O <sub>3</sub>	Aluminum oxide (corundum)	-1675.7	-1582.3	50.9	79.0								
Al <sub>2</sub> S <sub>3</sub>	Aluminum sulfide	-724.0		116.9	105.1								
Am	Americium	0.0											
Ar	Argon									0.0		154.8	20.8
As	Arsenic (gray)	0.0		35.1	24.6					302.5	261.0	174.2	20.8
As	Arsenic (yellow)	14.6											
AsBr <sub>3</sub>	Arsenic(III) bromide	-197.5								-130.0	-159.0	363.9	79.2
AsCl <sub>3</sub>	Arsenic(III) chloride					-305.0	-259.4	216.3		-261.5	-248.9	327.2	75.7
AsF <sub>3</sub>	Arsenic(III) fluoride					-821.3	-774.2	181.2	126.6	-785.8	-770.8	289.1	65.6
AsGa	Gallium arsenide	-71.0	-67.8	64.2	46.2								
AsH <sub>3</sub>	Arsine									66.4	68.9	222.8	38.1
AsH <sub>3</sub> O <sub>4</sub>	Arsenic acid	-906.3											
AsI <sub>3</sub>	Arsenic(III) iodide	-58.2	-59.4	213.1	105.8							388.3	80.6
AsIn	Indium arsenide	-58.6	-53.6	75.7	47.8								
AsO	Arsenic monoxide									70.0			
As <sub>2</sub>	Diarsenic									222.2	171.9	239.4	35.0
As <sub>2</sub> O <sub>5</sub>	Arsenic(V) oxide	-924.9	-782.3	105.4	116.5								
As <sub>2</sub> S <sub>3</sub>	Arsenic(III) sulfide	-169.0	-168.6	163.6	116.3								
At	Astatine	0.0											
Au	Gold			47.4	25.4					366.1	326.3	180.5	20.8
AuBr	Gold(I) bromide	-14.0											
AuBr <sub>3</sub>	Gold(III) bromide	-53.3											
AuCl	Gold(I) chloride	-34.7											
AuCl <sub>3</sub>	Gold(III) chloride	-117.6											
AuF <sub>3</sub>	Gold(III) fluoride	-363.6											
AuH	Gold hydride									295.0	265.7	211.2	29.2
AuI	Gold(I) iodide	0.0											
Au <sub>2</sub>	Digold									515.1			36.9
B	Boron (β-rhombohedral)	0.0		5.9	11.1					565.0	521.0	153.4	20.8
BBr	Bromoborane(1)									238.1	195.4	225.0	32.9
BBr <sub>3</sub>	Boron tribromide					-239.7	-238.5	229.7		-205.6	-232.5	324.2	67.8
BCl	Chloroborane(1)									149.5	120.9	213.2	31.7
BClO	Chloroxyborane									-314.0			
BCl <sub>3</sub>	Boron trichloride					-427.2	-387.4	206.3	106.7	-403.8	-388.7	290.1	62.7
BCsO <sub>2</sub>	Cesium metaborate	-972.0	-915.0	104.4	80.6								
BF	Fluoroborane(1)									-122.2	-149.8	200.5	29.6
BFO	Fluorooxyborane									-607.0			
BF <sub>3</sub>	Boron trifluoride									-1136.0	-1119.4	254.4	
BF <sub>3</sub> H <sub>3</sub> N	Aminettrifluoroboron	-1353.9											
BF <sub>3</sub> H <sub>3</sub> P	Trihydro(phosphorus trifluoride)boron									-854.0			
BF <sub>4</sub> Na	Sodium tetrafluoroborate	-1844.7	-1750.1	145.3	120.3								

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
BH	Borane(1)									442.7	412.7	171.8	29.2
BHO <sub>2</sub>	Metaboric acid (β, monoclinic)	-794.3	-723.4	38.0						-561.9	-551.0	240.1	42.2
BH <sub>3</sub>	Borane(3)									89.2	93.3	188.2	36.0
BH <sub>3</sub> O <sub>3</sub>	Boric acid	-1094.3	-968.9	90.0	86.1					-994.1			
BH <sub>4</sub> K	Potassium borohydride	-227.4	-160.3	106.3	96.1								
BH <sub>4</sub> Li	Lithium borohydride	-190.8	-125.0	75.9	82.6								
BH <sub>4</sub> Na	Sodium borohydride	-188.6	-123.9	101.3	86.8								
BI <sub>3</sub>	Boron triiodide									71.1	20.7	349.2	70.8
BKO <sub>2</sub>	Potassium metaborate	-981.6	-923.4	80.0	66.7								
BLiO <sub>2</sub>	Lithium metaborate	-1032.2	-976.1	51.5	59.8								
BN	Boron nitride	-254.4	-228.4	14.8	19.7					647.5	614.5	212.3	29.5
BNaO <sub>2</sub>	Sodium metaborate	-977.0	-920.7	73.5	65.9								
BO	Boron monoxide									25.0	-4.0	203.5	29.2
BO <sub>2</sub>	Boron dioxide									-300.4	-305.9	229.6	43.0
BO <sub>2</sub> Rb	Rubidium metaborate	-971.0	-913.0	94.3	74.1								
BS	Boron monosulfide									342.0	288.8	216.2	30.0
B <sub>2</sub>	Diboron									830.5	774.0	201.9	30.5
B <sub>2</sub> Cl <sub>4</sub>	Tetrachlorodiborane					-523.0	-464.8	262.3	137.7	-490.4	-460.6	357.4	95.4
B <sub>2</sub> F <sub>4</sub>	Tetrafluorodiborane									-1440.1	-1410.4	317.3	79.1
B <sub>2</sub> H <sub>6</sub>	Diborane									36.4	87.6	232.1	56.7
B <sub>2</sub> O <sub>2</sub>	Diboron dioxide									-454.8	-462.3	242.5	57.3
B <sub>2</sub> O <sub>3</sub>	Boron oxide	-1273.5	-1194.3	54.0	62.8					-843.8	-832.0	279.8	66.9
B <sub>2</sub> S <sub>3</sub>	Boron sulfide	-240.6		100.0	111.7					67.0			
B <sub>3</sub> H <sub>6</sub> N <sub>3</sub>	Borazine					-541.0	-392.7	199.6					
B <sub>4</sub> H <sub>10</sub>	Tetraborane(10)									66.1	184.3	280.3	
B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub>	Sodium tetraborate	-3291.1	-3096.0	189.5	186.8								
B <sub>5</sub> H <sub>9</sub>	Pentaborane(9)					42.7	171.8	184.2	151.1	73.2	173.6	280.6	99.6
B <sub>5</sub> H <sub>11</sub>	Pentaborane(11)					73.2				103.3	230.6	321.0	130.3
B <sub>6</sub> H <sub>10</sub>	Hexaborane(10)					56.3				94.6	211.3	296.8	125.7
B <sub>9</sub> H <sub>15</sub>	Nonaborane(15)									158.4	357.5	364.9	187.0
B <sub>10</sub> H <sub>14</sub>	Decaborane(14)									47.3	232.8	350.7	186.1
Ba	Barium	0.0		62.5	28.1					180.0	146.0	170.2	20.8
BaBr <sub>2</sub>	Barium bromide	-757.3	-736.8	146.0									
BaCl <sub>2</sub>	Barium chloride	-855.0	-806.7	123.7	75.1								
BaCl <sub>2</sub> H <sub>2</sub> O <sub>2</sub>	Barium chloride dihydrate	-1456.9	-1293.2	203.0									
BaF <sub>2</sub>	Barium fluoride	-1207.1		-1156.8	96.4	71.2							
BaH <sub>2</sub>	Barium hydride	-177.0	-138.2	63.0	46.0								
BaH <sub>2</sub> O <sub>2</sub>	Barium hydroxide	-944.7											
BaI <sub>2</sub>	Barium iodide	-602.1											
BaN <sub>2</sub> O <sub>4</sub>	Barium nitrite	-768.2											
BaN <sub>2</sub> O <sub>6</sub>	Barium nitrate	-988.0	-792.6	214.0	151.4								
BaO	Barium oxide	-548.0	-520.3	72.1	47.3					-112.0			
BaO <sub>4</sub> S	Barium sulfate	-1473.2	-1362.2	132.2	101.8								
BaS	Barium sulfide	-460.0	-456.0	78.2	49.4								
Be	Beryllium	0.0		9.5	16.4					324.0	286.6	136.3	20.8
BeBr <sub>2</sub>	Beryllium bromide	-353.5		108.0	69.4								
BeCl <sub>2</sub>	Beryllium chloride	-490.4	-445.6	75.8	62.4								
BeF <sub>2</sub>	Beryllium fluoride	-1026.8	-979.4	53.4	51.8								
BeH <sub>2</sub> O <sub>2</sub>	Beryllium hydroxide	-902.5	-815.0	45.5	62.1								
BeI <sub>2</sub>	Beryllium iodide	-192.5		121.0	71.1								
BeO	Beryllium oxide	-609.4	-580.1	13.8	25.6								
BeO <sub>4</sub> S	Beryllium sulfate	-1205.2	-1093.8	77.9	85.7								
BeS	Beryllium sulfide	-234.3		34.0	34.0								
Bi	Bismuth	0.0		56.7	25.5					207.1	168.2	187.0	20.8
BiClO	Bismuth oxychloride	-366.9	-322.1	120.5									
BiCl <sub>3</sub>	Bismuth trichloride	-379.1	-315.0	177.0	105.0					-265.7	-256.0	358.9	79.7
BiH <sub>3</sub> O <sub>3</sub>	Bismuth hydroxide	-711.3											
BiI <sub>3</sub>	Bismuth triiodide		-175.3										
Bi <sub>2</sub>	Dibismuth									219.7			36.9
Bi <sub>2</sub> O <sub>3</sub>	Bismuth oxide	-573.9	-493.7	151.5	113.5								
Bi <sub>2</sub> O <sub>12</sub> S <sub>3</sub>	Bismuth sulfate	-2544.3											
Bi <sub>2</sub> S <sub>3</sub>	Bismuth sulfide	-143.1	-140.6	200.4	122.2								
Bk	Berkelium	0.0											
Br	Bromine (atomic)									111.9	82.4	175.0	20.8
BrCl	Bromine chloride									14.6	-1.0	240.1	35.0
BrCl <sub>3</sub> Si	Bromotrichlorosilane											350.1	90.0

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
BrCs	Cesium bromide	-405.8	-391.4	113.1	52.9								
BrCu	Copper(I) bromide	-104.6	-100.8	96.1	54.7								
BrF	Bromine fluoride									-93.8	-109.2	229.0	33.0
BrF <sub>3</sub>	Bromine trifluoride					-300.8	-240.5	178.2	124.6	-255.6	-229.4	292.5	66.6
BrF <sub>5</sub>	Bromine pentafluoride					-458.6	-351.8	225.1		-428.9	-350.6	320.2	99.6
BrGe	Germanium monobromide									235.6			37.1
BrGeH <sub>3</sub>	Bromogermane											274.8	56.4
BrH	Hydrogen bromide									-36.3	-53.4	198.7	29.1
BrHSi	Bromosilylene									-464.4			
BrH <sub>3</sub> Si	Bromosilane											262.4	52.8
BrH <sub>4</sub> N	Ammonium bromide	-270.8	-175.2	113.0	96.0								
BrI	Iodine bromide									40.8	3.7	258.8	36.4
BrIn	Indium(I) bromide	-175.3	-169.0	113.0						-56.9	-94.3	259.5	36.7
BrK	Potassium bromide	-393.8	-380.7	95.9	52.3								
BrK <sub>2</sub> O <sub>3</sub>	Potassium bromate	-360.2	-271.2	149.2	105.2								
BrK <sub>2</sub> O <sub>4</sub>	Potassium perbromate	-287.9	-174.4	170.1	120.2								
BrLi	Lithium bromide	-351.2	-342.0	74.3									
BrNO	Nitrosyl bromide									82.2	82.4	273.7	45.5
BrNa	Sodium bromide	-361.1	-349.0	86.8	51.4					-143.1	-177.1	241.2	36.3
BrNaO <sub>3</sub>	Sodium bromate	-334.1	-242.6	128.9									
BrO	Bromine monoxide									125.8	109.6	233.0	34.2
BrO <sub>2</sub>	Bromine dioxide									152.0	155.0	271.1	45.4
BrRb	Rubidium bromide	-394.6	-381.8	110.0	52.8								
BrSi	Bromosilyldyne									209.0			38.6
BrTl	Thallium(I) bromide	-173.2	-167.4	120.5						-37.7			
Br <sub>2</sub>	Bromine					0.0		152.2	75.7	30.9	3.1	245.5	36.0
Br <sub>2</sub> Ca	Calcium bromide	-682.8	-663.6	130.0									
Br <sub>2</sub> Cd	Cadmium bromide	-316.2	-296.3	137.2	76.7								
Br <sub>2</sub> Co	Cobalt(II) bromide	-220.9			79.5								
Br <sub>2</sub> Cr	Chromium(II) bromide	-302.1											
Br <sub>2</sub> Cu	Copper(II) bromide	-141.8											
Br <sub>2</sub> Fe	Iron(II) bromide	-249.8	-238.1	140.6									
Br <sub>2</sub> H <sub>2</sub> Si	Dibromosilane											309.7	65.5
Br <sub>2</sub> Hg	Mercury(II) bromide	-170.7	-153.1	172.0									
Br <sub>2</sub> Hg <sub>2</sub>	Mercury(I) bromide	-206.9	-181.1	218.0									
Br <sub>2</sub> Mg	Magnesium bromide	-524.3	-503.8	117.2									
Br <sub>2</sub> Mn	Manganese(II) bromide	-384.9											
Br <sub>2</sub> Ni	Nickel(II) bromide	-212.1											
Br <sub>2</sub> Pb	Lead(II) bromide	-278.7	-261.9	161.5	80.1								
Br <sub>2</sub> Pt	Platinum(II) bromide	-82.0											
Br <sub>2</sub> S <sub>2</sub>	Sulfur bromide					-13.0							
Br <sub>2</sub> Se	Selenium dibromide									-21.0			
Br <sub>2</sub> Sn	Tin(II) bromide	-243.5											
Br <sub>2</sub> Sr	Strontium bromide	-717.6	-697.1	135.1	75.3								
Br <sub>2</sub> Ti	Titanium(II) bromide	-402.0											
Br <sub>2</sub> Zn	Zinc bromide	-328.7	-312.1	138.5									
Br <sub>3</sub> Ce	Cerium(III) bromide	-891.4											
Br <sub>3</sub> ClSi	Tribromochlorosilane											377.1	95.3
Br <sub>3</sub> Dy	Dysprosium(III) bromide	-836.2											
Br <sub>3</sub> Fe	Iron(III) bromide	-268.2											
Br <sub>3</sub> Ga	Gallium(III) bromide	-386.6	-359.8	180.0									
Br <sub>3</sub> HSi	Tribromosilane					-355.6	-336.4	248.1		-317.6	-328.5	348.6	80.8
Br <sub>3</sub> In	Indium(III) bromide	-428.9								-282.0			
Br <sub>3</sub> OP	Phosphoric tribromide	-458.6										359.8	89.9
Br <sub>3</sub> P	Phosphorus(III) bromide					-184.5	-175.7	240.2		-139.3	-162.8	348.1	76.0
Br <sub>3</sub> Pt	Platinum(III) bromide	-120.9											
Br <sub>3</sub> Re	Rhenium(III) bromide	-167.0											
Br <sub>3</sub> Ru	Ruthenium(III) bromide	-138.0											
Br <sub>3</sub> Sb	Antimony(III) bromide	-259.4	-239.3	207.1						-194.6	-223.9	372.9	80.2
Br <sub>3</sub> Sc	Scandium bromide	-743.1											
Br <sub>3</sub> Ti	Titanium(III) bromide	-548.5	-523.8	176.6	101.7								
Br <sub>4</sub> Ge	Germanium(IV) bromide					-347.7	-331.4	280.7		-300.0	-318.0	396.2	101.8
Br <sub>4</sub> Pa	Protactinium(IV) bromide	-824.0	-787.8	234.0									
Br <sub>4</sub> Pt	Platinum(IV) bromide	-156.5											
Br <sub>4</sub> Si	Tetrabromosilane					-457.3	-443.9	277.8		-415.5	-431.8	377.9	97.1
Br <sub>4</sub> Sn	Tin(IV) bromide	-377.4	-350.2	264.4						-314.6	-331.4	411.9	103.4

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
Br <sub>4</sub> Te	Tellurium tetrabromide	-190.4											
Br <sub>4</sub> Ti	Titanium(IV) bromide	-616.7	-589.5	243.5	131.5					-549.4	-568.2	398.4	100.8
Br <sub>4</sub> V	Vanadium(IV) bromide									-336.8			
Br <sub>4</sub> Zr	Zirconium(IV) bromide	-760.7											
Br <sub>2</sub> P	Phosphorus(V) bromide	-269.9											
Br <sub>5</sub> Ta	Tantalum(V) bromide	-598.3											
Br <sub>6</sub> W	Tungsten(VI) bromide	-348.5											
Ca	Calcium	0.0		41.6	25.9					177.8	144.0	154.9	
CaCl <sub>2</sub>	Calcium chloride	-795.4	-748.8	108.4	72.9								
CaF <sub>2</sub>	Calcium fluoride	-1228.0	-1175.6	68.5	67.0								
CaH <sub>2</sub>	Calcium hydride	-181.5	-142.5	41.4	41.0								
CaH <sub>2</sub> O <sub>2</sub>	Calcium hydroxide	-985.2	-897.5	83.4	87.5								
CaI <sub>2</sub>	Calcium iodide	-533.5	-528.9	142.0									
CaN <sub>2</sub> O <sub>6</sub>	Calcium nitrate	-938.2	-742.8	193.2	149.4								
CaO	Calcium oxide	-634.9	-603.3	38.1	42.0								
CaO <sub>4</sub> S	Calcium sulfate	-1434.5	-1322.0	106.5	99.7								
CaS	Calcium sulfide	-482.4	-477.4	56.5	47.4								
Ca <sub>3</sub> O <sub>6</sub> P <sub>2</sub>	Calcium phosphate	-4120.8	-3884.7	236.0	227.8								
Cd	Cadmium	0.0		51.8	26.0						111.8		167.7
CdCl <sub>2</sub>	Cadmium chloride	-391.5	-343.9	115.3	74.7								
CdF <sub>2</sub>	Cadmium fluoride	-700.4	-647.7	77.4									
CdH <sub>2</sub> O <sub>2</sub>	Cadmium hydroxide	-560.7	-473.6	96.0									
CdI <sub>2</sub>	Cadmium iodide	-203.3	-201.4	161.1	80.0								
CdO	Cadmium oxide	-258.4	-228.7	54.8	43.4								
CdO <sub>4</sub> S	Cadmium sulfate	-933.3	-822.7	123.0	99.6								
CdS	Cadmium sulfide	-161.9	-156.5	64.9									
CdTe	Cadmium telluride	-92.5	-92.0	100.0									
Ce	Cerium (γ, fcc)	0.0		72.0	26.9					423.0	385.0	191.8	23.1
CeCl <sub>3</sub>	Cerium(III) chloride	-1060.5	-984.8	151.0	87.4								
CeI <sub>3</sub>	Cerium(III) iodide	-669.3											
CeO <sub>2</sub>	Cerium(IV) oxide	-1088.7	-1024.6	62.3	61.6								
CeS	Cerium(II) sulfide	-459.4	-451.5	78.2	50.0								
Ce <sub>2</sub> O <sub>3</sub>	Cerium(III) oxide	-1796.2	-1706.2	150.6	114.6								
Cf	Californium	0.0											
Cl	Chlorine (atomic)									121.3	105.3	165.2	21.8
ClCs	Cesium chloride	-443.0	-414.5	101.2	52.5								
ClCsO <sub>4</sub>	Cesium perchlorate	-443.1	-314.3	175.1	108.3								
ClCu	Copper(I) chloride	-137.2	-119.9	86.2	48.5								
ClF	Chlorine fluoride									-50.3	-51.8	217.9	32.1
ClFO <sub>3</sub>	Perchloryl fluoride									-23.8	48.2	279.0	64.9
ClF <sub>3</sub>	Chlorine trifluoride					-189.5				-163.2	-123.0	281.6	63.9
ClF <sub>2</sub> S	Sulfur chloride pentafluoride					-1065.7							
ClGe	Germanium monochloride									155.2	124.2	247.0	36.9
ClGeH <sub>3</sub>	Chlorogermane											263.7	54.7
ClH	Hydrogen chloride									-92.3	-95.3	186.9	29.1
ClHO	Hypochlorous acid									-78.7	-66.1	236.7	37.2
ClHO <sub>4</sub>	Perchloric acid					-40.6							
ClH <sub>3</sub> Si	Chlorosilane											250.7	51.0
ClH <sub>4</sub> N	Ammonium chloride	-314.4	-202.9	94.6	84.1								
ClH <sub>4</sub> NO <sub>4</sub>	Ammonium perchlorate	-295.3	-88.8	186.2									
ClH <sub>4</sub> P	Phosphonium chloride	-145.2											
ClI	Iodine chloride					-23.9	-13.6	135.1		17.8	-5.5	247.6	35.6
ClIn	Indium(I) chloride	-186.2								-75.0			
ClK	Potassium chloride	-436.5	-408.5	82.6	51.3					-214.6	-233.3	239.1	36.5
ClKO <sub>3</sub>	Potassium chlorate	-397.7	-296.3	143.1	100.3								
ClKO <sub>4</sub>	Potassium perchlorate	-432.8	-303.1	151.0	112.4								
ClLi	Lithium chloride	-408.6	-384.4	59.3	48.0								
ClLiO <sub>4</sub>	Lithium perchlorate	-381.0											
ClNO	Nitrosyl chloride									51.7	66.1	261.7	44.7
ClNO <sub>2</sub>	Nitryl chloride									12.6	54.4	272.2	53.2
ClNa	Sodium chloride	-411.2	-384.1	72.1	50.5								
ClNaO <sub>2</sub>	Sodium chlorite	-307.0											
ClNaO <sub>3</sub>	Sodium chlorate	-365.8	-262.3	123.4									
ClNaO <sub>4</sub>	Sodium perchlorate	-383.3	-254.9	142.3									
ClO	Chlorine oxide									101.8	98.1	226.6	31.5
ClOV	Vanadyl chloride	-607.0	-556.0	75.0									

[illegible]

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
Cl <sub>4</sub> Ge	Germanium(IV) chloride					-531.8	-462.7	245.6		-495.8	-457.3	347.7	96.1
Cl <sub>4</sub> Hf	Hafnium(IV) chloride	-990.4	-901.3	190.8	120.5					-884.5			
Cl <sub>4</sub> Pa	Protactinium(IV) chloride	-1043.0	-953.0	192.0									
Cl <sub>4</sub> Pb	Lead(IV) chloride					-329.3							
Cl <sub>4</sub> Pt	Platinum(IV) chloride	-231.8											
Cl <sub>4</sub> Si	Tetrachlorosilane					-687.0	-619.8	239.7	145.3	-657.0	-617.0	330.7	90.3
Cl <sub>4</sub> Sn	Tin(IV) chloride					-511.3	-440.1	258.6	165.3	-471.5	-432.2	365.8	98.3
Cl <sub>4</sub> Te	Tellurium tetrachloride	-326.4			138.5								
Cl <sub>4</sub> Th	Thorium(IV) chloride	-1186.2	-1094.1	190.4	120.3					-964.4	-932.0	390.7	107.5
Cl <sub>4</sub> Ti	Titanium(IV) chloride					-804.2	-737.2	252.3	145.2	-763.2	-726.3	353.2	95.4
Cl <sub>4</sub> U	Uranium(IV) chloride	-1019.2	-930.0	197.1	122.0					-809.6	-786.6	419.0	
Cl <sub>4</sub> V	Vanadium(IV) chloride					-569.4	-503.7	255.0		-525.5	-492.0	362.4	96.2
Cl <sub>4</sub> Zr	Zirconium(IV) chloride	-980.5	-889.9	181.6	119.8								
Cl <sub>5</sub> Nb	Niobium(V) chloride	-797.5	-683.2	210.5	148.1					-703.7	-646.0	400.6	120.8
Cl <sub>5</sub> P	Phosphorus(V) chloride	-443.5								-374.9	-305.0	364.6	112.8
Cl <sub>5</sub> Pa	Protactinium(V) chloride	-1145.0	-1034.0	238.0									
Cl <sub>5</sub> Ta	Tantalum(V) chloride	-859.0											
Cl <sub>6</sub> U	Uranium(VI) chloride	-1092.0	-962.0	285.8	175.7					-1013.0	-928.0	431.0	
Cl <sub>6</sub> W	Tungsten(VI) chloride	-602.5								-513.8			
Cm	Curium	0.0											
Co	Cobalt	0.0		30.0	24.8					424.7	380.3	179.5	23.0
CoF <sub>2</sub>	Cobalt(II) fluoride	-692.0	-647.2	82.0	68.8								
CoH <sub>2</sub> O <sub>2</sub>	Cobalt(II) hydroxide	-539.7	-454.3	79.0									
CoI <sub>2</sub>	Cobalt(II) iodide	-88.7											
CoN <sub>2</sub> O <sub>6</sub>	Cobalt(II) nitrate	-420.5											
CoO	Cobalt(II) oxide	-237.9	-214.2	53.0	55.2								
CoO <sub>4</sub> S	Cobalt(II) sulfate	-888.3	-782.3	118.0									
CoS	Cobalt(II) sulfide	-82.8											
Co <sub>2</sub> S <sub>3</sub>	Cobalt(III) sulfide	-147.3											
Co <sub>2</sub> O <sub>4</sub>	Cobalt(II,III) oxide	-891.0	-774.0	102.5	123.4								
Cr	Chromium	0.0		23.8	23.4					396.6	351.8	174.5	20.8
CrF <sub>2</sub>	Chromium(II) fluoride	-778.0											
CrF <sub>3</sub>	Chromium(III) fluoride	-1159.0	-1088.0	93.9	78.7								
CrI <sub>2</sub>	Chromium(II) iodide	-156.9											
CrI <sub>3</sub>	Chromium(III) iodide	-205.0											
CrO <sub>2</sub>	Chromium(IV) oxide	-598.0											
CrO <sub>3</sub>	Chromium(VI) oxide									-292.9		266.2	56.0
CrO <sub>4</sub> Pb	Lead(II) chromate	-930.9											
Cr <sub>2</sub> FeO <sub>4</sub>	Chromium iron oxide	-1444.7	-1343.8	146.0	133.6								
Cr <sub>2</sub> O <sub>3</sub>	Chromium(III) oxide	-1139.7	-1058.1	81.2	118.7								
Cr <sub>3</sub> O <sub>4</sub>	Chromium(II,III) oxide	-1531.0											
Cs	Cesium	0.0		85.2	32.2					76.5	49.6	175.6	20.8
CsF	Cesium fluoride	-553.5	-525.5	92.8	51.1								
CsF <sub>2</sub> H	Cesium hydrogen fluoride	-923.8	-858.9	135.2	87.3								
CsH	Cesium hydride	-54.2											
CsHO	Cesium hydroxide	-416.2	-371.8	104.2	69.9					-256.0	-256.5	254.8	49.7
CsHO <sub>4</sub> S	Cesium hydrogen sulfate	-1158.1											
CsH <sub>2</sub> N	Cesium amide	-118.4											
CsI	Cesium iodide	-346.6	-340.6	123.1	52.8								
CsNO <sub>3</sub>	Cesium nitrate	-506.0	-406.5	155.2									
CsO <sub>2</sub>	Cesium superoxide	-286.2											
Cs <sub>2</sub> O	Cesium oxide	-345.8	-308.1	146.9	76.0								
Cs <sub>2</sub> O <sub>3</sub> S	Cesium sulfite	-1134.7											
Cs <sub>2</sub> O <sub>4</sub> S	Cesium sulfate	-1443.0	-1323.6	211.9	134.9								
Cs <sub>2</sub> S	Cesium sulfide	-359.8											
Cu	Copper	0.0		33.2	24.4					337.4	297.7	166.4	20.8
CuF <sub>2</sub>	Copper(II) fluoride	-542.7											
CuH <sub>2</sub> O <sub>2</sub>	Copper(II) hydroxide	-449.8											
CuI	Copper(I) iodide	-67.8	-69.5	96.7	54.1								
CuN <sub>2</sub> O <sub>6</sub>	Copper(II) nitrate	-302.9											
CuO	Copper(II) oxide	-157.3	-129.7	42.6	42.3								
CuO <sub>4</sub> S	Copper(II) sulfate	-771.4	-662.2	109.2									
CuO <sub>4</sub> W	Copper(II) tungstate	-1105.0											
CuS	Copper(II) sulfide	-53.1	-53.6	66.5	47.8								
CuSe	Copper(II) selenide	-39.5											
Cu <sub>2</sub>	Dicopper									484.2	431.9	241.6	36.6



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
Cu <sub>2</sub> O	Copper(I) oxide	-168.6	-146.0	93.1	63.6								
Cu <sub>2</sub> S	Copper(I) sulfide	-79.5	-86.2	120.9	76.3								
Dy	Dysprosium	0.0		75.6	27.7					290.4	254.4	196.6	20.8
DyI <sub>3</sub>	Dysprosium(III) iodide	-620.5											
Dy <sub>2</sub> O <sub>3</sub>	Dysprosium(III) oxide	-1863.1	-1771.5	149.8	116.3								
Er	Erbium	0.0		73.2	28.1					317.1	280.7	195.6	20.8
ErF <sub>3</sub>	Erbium fluoride	-1711.0											
Er <sub>2</sub> O <sub>3</sub>	Erbium oxide	-1897.9	-1808.7	155.6	108.5								
Es	Einsteinium	0.0											
Eu	Europium	0.0		77.8	27.7					175.3	142.2	188.8	20.8
Eu <sub>2</sub> O <sub>3</sub>	Europium(III) oxide	-1651.4	-1556.8	146.0	122.2								
Eu <sub>3</sub> O <sub>4</sub>	Europium(II,III) oxide	-2272.0	-2142.0	205.0									
F	Fluorine (atomic)									79.4	62.3	158.8	22.7
FGa	Gallium monofluoride									-251.9			33.3
FGe	Germanium monofluoride									-33.4			34.7
FGeH <sub>3</sub>	Fluorogermane											252.8	51.6
FH	Hydrogen fluoride					-299.8				-273.3	-275.4	173.8	
FH <sub>3</sub> Si	Fluorosilane											238.4	47.4
FH <sub>4</sub> N	Ammonium fluoride	-464.0	-348.7	72.0	65.3								
FI	Iodine fluoride									-95.7	-118.5	236.2	33.4
FIIn	Indium(I) fluoride									-203.4			
FK	Potassium fluoride	-567.3	-537.8	66.6	49.0								
FLi	Lithium fluoride	-616.0	-587.7	35.7	41.6								
FNO	Nitrosyl fluoride									-66.5	-51.0	248.1	41.3
FNO <sub>2</sub>	Nitryl fluoride											260.4	49.8
FNS	Thionitrosyl fluoride (NSF)											259.8	44.1
FNa	Sodium fluoride	-576.6	-546.3	51.1	46.9								
FO	Fluorine oxide									109.0	105.3	216.4	32.0
FO <sub>2</sub>	Fluorine superoxide (FOO)									25.4	39.4	259.5	44.5
FRb	Rubidium fluoride	-557.7											
FSi	Fluorosilyldiyne									7.1	-24.3	225.8	32.6
FTl	Thallium(I) fluoride	-324.7								-182.4			
F <sub>2</sub>	Fluorine									0.0		202.8	31.3
F <sub>2</sub> Fe	Iron(II) fluoride	-711.3	-668.6	87.0	68.1								
F <sub>2</sub> HK	Potassium hydrogen fluoride	-927.7	-859.7	104.3	76.9								
F <sub>2</sub> HN	Difluoramine											252.8	43.4
F <sub>2</sub> HNa	Sodium hydrogen fluoride	-920.3	-852.2	90.9	75.0								
F <sub>2</sub> HRb	Rubidium hydrogen fluoride	-922.6	-855.6	120.1	79.4								
F <sub>2</sub> Mg	Magnesium fluoride	-1124.2	-1071.1	57.2	61.6								
F <sub>2</sub> N	Difluoroamidogen									43.1	57.8	249.9	41.0
F <sub>2</sub> N <sub>2</sub>	cis-Difluorodiazine									69.5			
F <sub>2</sub> N <sub>2</sub>	trans-Difluorodiazine									82.0			
F <sub>2</sub> Ni	Nickel(II) fluoride	-651.4	-604.1	73.6	64.1								
F <sub>2</sub> O	Fluorine monoxide									24.5	41.8	247.5	43.3
F <sub>2</sub> OS	Thionyl fluoride											278.7	56.8
F <sub>2</sub> O <sub>2</sub>	Fluorine dioxide									19.2	58.2	277.2	62.1
F <sub>2</sub> O <sub>2</sub> S	Sulfuryl fluoride											284.0	66.0
F <sub>2</sub> O <sub>2</sub> U	Uranyl fluoride	-1653.5	-1557.4	135.6	103.2								
F <sub>2</sub> Pb	Lead(II) fluoride	-664.0	-617.1	110.5									
F <sub>2</sub> Si	Difluorosilylene									-619.0	-628.0	252.7	43.9
F <sub>2</sub> Sr	Strontium fluoride	-1216.3	-1164.8	82.1	70.0								
F <sub>2</sub> Zn	Zinc fluoride	-764.4	-713.3	73.7	65.7								
F <sub>3</sub> Ga	Gallium(III) fluoride	-1163.0	-1085.3	84.0									
F <sub>3</sub> Gd	Gadolinium(III) fluoride									-1297.0			
F <sub>3</sub> HSi	Trifluorosilane											271.9	60.5
F <sub>3</sub> Ho	Holmium fluoride	-1707.0											
F <sub>3</sub> N	Nitrogen trifluoride									-132.1	-90.6	260.8	53.4
F <sub>3</sub> Nd	Neodymium fluoride	-1657.0											
F <sub>3</sub> OP	Phosphoric trifluoride									-1254.3	-1205.8	285.4	68.8
F <sub>3</sub> P	Phosphorus(III) fluoride									-958.4	-936.9	273.1	58.7
F <sub>3</sub> Sb	Antimony(III) fluoride	-915.5											
F <sub>3</sub> Sc	Scandium fluoride	-1629.2	-1555.6	92.0						-1247.0	-1234.0	300.5	67.8
F <sub>3</sub> Sm	Samarium(III) fluoride	-1778.0											
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



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>4</sub> Ge	Germanium(IV) fluoride												
F <sub>4</sub> Hf	Hafnium fluoride	-1930.5	-1830.4	113.0						-1190.2	-1150.0	301.9	
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	
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>2</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
GeTe	Germanium(II) telluride	20.0											
Ge <sub>2</sub>	Digermanium									473.1	416.3	252.8	35.6
Ge <sub>2</sub> H <sub>6</sub>	Digermane					137.3				162.3			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
Ge <sub>3</sub> H <sub>8</sub>	Trigermane					193.7				226.8			
H	Hydrogen (atomic)									218.0	203.3	114.7	20.8
HI	Hydrogen iodide									26.5	1.7	206.6	29.2
HIO <sub>3</sub>	Iodic acid	-230.1											
HK	Potassium hydride	-57.7											
HKO	Potassium hydroxide	-424.6	-379.4	81.2	68.9					-232.0	-229.7	238.3	49.2
HKO <sub>4</sub> S	Potassium hydrogen sulfate	-1160.6	-1031.3	138.1									
HLi	Lithium hydride	-90.5	-68.3	20.0	27.9								
HLiO	Lithium hydroxide	-487.5	-441.5	42.8	49.6					-229.0	-234.2	214.4	46.0
HN	Imidogen									351.5	345.6	181.2	29.2
HNO <sub>2</sub>	Nitrous acid									-79.5	-46.0	254.1	45.6
HNO <sub>3</sub>	Nitric acid					-174.1	-80.7	155.6	109.9	-133.9	-73.5	266.9	54.1
HN <sub>3</sub>	Hydrazoic acid					264.0	327.3	140.6		294.1	328.1	239.0	43.7
HNa	Sodium hydride	-56.3	-33.5	40.0	36.4								
HNaO	Sodium hydroxide	-425.8	-379.7	64.4	59.5					-191.0	-193.9	229.0	48.0
HNaO <sub>2</sub> S	Sodium hydrogen sulfate	-1125.5	-992.8	113.0									
HNa <sub>2</sub> O <sub>4</sub> P	Sodium hydrogen phosphate	-1748.1	-1608.2	150.5	135.3								
HO	Hydroxyl									39.0	34.2	183.7	29.9
HORb	Rubidium hydroxide	-418.8	-373.9	94.0	69.0					-238.0	-239.1	248.5	49.5
HOTl	Thallium(I) hydroxide	-238.9	-195.8	88.0									
HO <sub>2</sub>	Hydroperoxy									10.5	22.6	229.0	34.9
HO <sub>3</sub> P	Metaphosphoric acid	-948.5											
HO <sub>4</sub> RbS	Rubidium hydrogen sulfate	-1159.0											
HO <sub>4</sub> Re	Perrhenic acid	-762.3	-656.4	158.2									
HRb	Rubidium hydride	-52.3											
HS	Mercapto									142.7	113.3	195.7	32.3
HSi	Silylidyne									361.0			
HTa <sub>2</sub>	Tantalum hydride	-32.6	-69.0	79.1	90.8								
H <sub>2</sub>	Hydrogen									0.0		130.7	28.8
H <sub>2</sub> KN	Potassium amide	-128.9											
H <sub>2</sub> KO <sub>4</sub> P	Potassium dihydrogen phosphate	-1568.3	-1415.9	134.9	116.6								
H <sub>2</sub> LiN	Lithium amide	-179.5											
H <sub>2</sub> Mg	Magnesium hydride	-75.3	-35.9	31.1	35.4								
H <sub>2</sub> MgO <sub>2</sub>	Magnesium hydroxide	-924.5	-833.5	63.2	77.0								
H <sub>2</sub> N	Amidogen									184.9	194.6	195.0	33.9
H <sub>2</sub> NNa	Sodium amide	-123.8	-64.0	76.9	66.2								
H <sub>2</sub> NRb	Rubidium amide	-113.0											
H <sub>2</sub> N <sub>2</sub> O <sub>2</sub>	Nitramide	-89.5											
H <sub>2</sub> NiO <sub>2</sub>	Nickel(II) hydroxide	-529.7	-447.2	88.0									
H <sub>2</sub> O	Water					-285.8	-237.1	70.0	75.3	-241.8	-228.6	188.8	33.6
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide					-187.8	-120.4	109.6	89.1	-136.3	-105.6	232.7	43.1
H <sub>2</sub> O <sub>2</sub> Sn	Tin(II) hydroxide	-561.1	-491.6	155.0									
H <sub>2</sub> O <sub>2</sub> Sr	Strontium hydroxide	-959.0											
H <sub>2</sub> O <sub>2</sub> Zn	Zinc hydroxide	-641.9	-553.5	81.2									
H <sub>2</sub> O <sub>2</sub> Si	Metasilicic acid	-1188.7	-1092.4	134.0									
H <sub>2</sub> O <sub>4</sub> S	Sulfuric acid					-814.0	-690.0	156.9	138.9				
H <sub>2</sub> O <sub>4</sub> Se	Selenic acid	-530.1											
H <sub>2</sub> S	Hydrogen sulfide									-20.6	-33.4	205.8	34.2
H <sub>2</sub> S <sub>2</sub>	Hydrogen disulfide					-18.1			84.1	15.5			51.5
H <sub>2</sub> Se	Hydrogen selenide									29.7	15.9	219.0	34.7
H <sub>2</sub> Sr	Strontium hydride	-180.3											
H <sub>2</sub> Te	Hydrogen telluride									99.6			
H <sub>2</sub> Th	Thorium hydride	-139.7	-100.0	50.7	36.7								
H <sub>2</sub> Zr	Zirconium(II) hydride	-169.0	-128.8	35.0	31.0								
H <sub>3</sub> ISi	Iodosilane											270.9	54.4
H <sub>3</sub> N	Ammonia									-45.9	-16.4	192.8	35.1
H <sub>3</sub> NO	Hydroxylamine	-114.2											
H <sub>3</sub> O <sub>2</sub> P	Phosphinic acid	-604.6				-595.4							
H <sub>3</sub> O <sub>3</sub> P	Phosphonic acid	-964.4											
H <sub>3</sub> O <sub>4</sub> P	Phosphoric acid	-1284.4	-1124.3	110.5	106.1	-1271.7	-1123.6	150.8	145.0				
H <sub>3</sub> P	Phosphine									5.4	13.5	210.2	37.1
H <sub>3</sub> Sb	Stibine									145.1	147.8	232.8	41.1
H <sub>3</sub> U	Uranium(III) hydride	-127.2	-72.8	63.7	49.3								
H <sub>4</sub> IN	Ammonium iodide	-201.4	-112.5	117.0									
H <sub>4</sub> N <sub>2</sub>	Hydrazine					50.6	149.3	121.2	98.9	95.4	159.4	238.5	48.4
H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	Ammonium nitrite	-256.5											

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
H <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	Ammonium nitrate	-365.6	-183.9	151.1	139.3								
H <sub>4</sub> N <sub>4</sub>	Ammonium azide	115.5	274.2	112.5									
H <sub>4</sub> O <sub>4</sub> Si	Orthosilicic acid	-1481.1	-1332.9	192.0									
H <sub>4</sub> O <sub>4</sub> P <sub>2</sub>	Diphosphoric acid	-2241.0				-2231.7							
H <sub>4</sub> P <sub>2</sub>	Diphosphine					-5.0				20.9			
H <sub>4</sub> Si	Silane									34.3	56.9	204.6	42.8
H <sub>4</sub> Sn	Stannane									162.8	188.3	227.7	49.0
H <sub>5</sub> NO	Ammonium hydroxide					-361.2	-254.0	165.6	154.9				
H <sub>5</sub> NO <sub>3</sub> S	Ammonium hydrogen sulfite	-768.6											
H <sub>5</sub> NO <sub>4</sub> S	Ammonium hydrogen sulfate	-1027.0											
H <sub>6</sub> Si <sub>2</sub>	Disilane									80.3	127.3	272.7	80.8
H <sub>8</sub> N <sub>2</sub> O <sub>4</sub> S	Ammonium sulfate	-1180.9	-901.7	220.1	187.5								
H <sub>8</sub> Si <sub>3</sub>	Trisilane					92.5				120.9			
H <sub>9</sub> N <sub>3</sub> O <sub>4</sub> P	Ammonium hydrogen phosphate	-1566.9			188.0								
H <sub>12</sub> N <sub>3</sub> O <sub>4</sub> P	Ammonium phosphate	-1671.9											
He	Helium									0.0		126.2	20.8
Hf	Hafnium	0.0		43.6	25.7					619.2	576.5	186.9	20.8
HfO <sub>2</sub>	Hafnium oxide	-1144.7	-1088.2	59.3	60.3								
Hg	Mercury					0.0		75.9	28.0	61.4	31.8	175.0	20.8
HgI <sub>2</sub>	Mercury(II) iodide	-105.4	-101.7	180.0									
HgO	Mercury(II) oxide	-90.8	-58.5	70.3	44.1								
HgO <sub>2</sub> S	Mercury(II) sulfate	-707.5											
HgS	Mercury(II) sulfide (red)	-58.2	-50.6	82.4	48.4								
HgTe	Mercury(II) telluride	-42.0											
Hg <sub>2</sub>	Dimercury									108.8	68.2	288.1	37.4
Hg <sub>2</sub> I <sub>2</sub>	Mercury(I) iodide	-121.3	-111.0	233.5									
Hg <sub>2</sub> O <sub>4</sub> S	Mercury(I) sulfate	-743.1	-625.8	200.7	132.0								
Ho	Holmium	0.0		75.3	27.2					300.8	264.8	195.6	20.8
Ho <sub>2</sub> O <sub>3</sub>	Holmium oxide	-1880.7	-1791.1	158.2	115.0								
I	Iodine (atomic)									106.8	70.2	180.8	20.8
IIn	Indium(I) iodide	-116.3	-120.5	130.0						7.5	-37.7	267.3	36.8
IK	Potassium iodide	-327.9	-324.9	106.3	52.9								
IKO <sub>3</sub>	Potassium iodate	-501.4	-418.4	151.5	106.5								
IKO <sub>4</sub>	Potassium periodate	-467.2	-361.4	175.7									
ILi	Lithium iodide	-270.4	-270.3	86.8	51.0								
INa	Sodium iodide	-287.8	-286.1	98.5	52.1								
INaO <sub>3</sub>	Sodium iodate	-481.8			92.0								
INaO <sub>4</sub>	Sodium periodate	-429.3	-323.0	163.0									
IO	Iodine monoxide									126.0	102.5	239.6	32.9
IRb	Rubidium iodide	-333.8	-328.9	118.4	53.2								
ITl	Thallium(I) iodide	-123.8	-125.4	127.6						7.1			
I <sub>2</sub>	Iodine (rhombic)	0.0		116.1	54.4					62.4	19.3	260.7	36.9
I <sub>2</sub> Mg	Magnesium iodide	-364.0	-358.2	129.7									
I <sub>2</sub> Ni	Nickel(II) iodide	-78.2											
I <sub>2</sub> Pb	Lead(II) iodide	-175.5	-173.6	174.9	77.4								
I <sub>2</sub> Sn	Tin(II) iodide	-143.5											
I <sub>2</sub> Sr	Strontium iodide	-558.1			81.6								
I <sub>2</sub> Zn	Zinc iodide	-208.0	-209.0	161.1									
I <sub>3</sub> In	Indium(III) iodide	-238.0								-120.5			
I <sub>3</sub> La	Lanthanum iodide	-668.9											
I <sub>3</sub> Lu	Lutetium iodide	-548.0											
I <sub>3</sub> P	Phosphorus(III) iodide	-45.6										374.4	78.4
I <sub>3</sub> Ru	Ruthenium(III) iodide	-65.7											
I <sub>3</sub> Sb	Antimony(III) iodide	-100.4											
I <sub>4</sub> Pt	Platinum(IV) iodide	-72.8											
I <sub>4</sub> Si	Tetraiodosilane	-189.5											
I <sub>4</sub> Sn	Tin(IV) iodide				84.9							446.1	105.4
I <sub>4</sub> Ti	Titanium(IV) iodide	-375.7	-371.5	249.4	125.7					-277.8			
I <sub>4</sub> V	Vanadium(IV) iodide									-122.6			
I <sub>4</sub> Zr	Zirconium(IV) iodide	-481.6											
In	Indium	0.0		57.8	26.7					243.3	208.7	173.8	20.8
InO	Indium monoxide									387.0	364.4	236.5	32.6
InP	Indium phosphide	-88.7	-77.0	59.8	45.4								
InS	Indium(II) sulfide	-138.1	-131.8	67.0						238.0			
InSb	Indium antimonide	-30.5	-25.5	86.2	49.5					344.3			
In <sub>2</sub>	Diindium									380.9			

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
In <sub>2</sub> O <sub>3</sub>	Indium(III) oxide	-925.8	-830.7	104.2	92.0								
In <sub>2</sub> S <sub>3</sub>	Indium(III) sulfide	-427.0	-412.5	163.6	118.0								
In <sub>2</sub> Te <sub>5</sub>	Indium(IV) telluride	-175.3											
Ir	Iridium	0.0		35.5	25.1					665.3	617.9	193.6	20.8
IrO <sub>2</sub>	Iridium(IV) oxide	-274.1			57.3								
IrS <sub>2</sub>	Iridium(IV) sulfide	-138.0											
Ir <sub>2</sub> S <sub>3</sub>	Iridium(III) sulfide	-234.0											
K	Potassium	0.0		64.7	29.6					89.0	60.5	160.3	20.8
KMnO <sub>4</sub>	Potassium permanganate	-837.2	-737.6	171.7	117.6								
KNO <sub>2</sub>	Potassium nitrite	-369.8	-306.6	152.1	107.4								
KNO <sub>3</sub>	Potassium nitrate	-494.6	-394.9	133.1	96.4								
KNa	Potassium sodium					6.3							
KO <sub>2</sub>	Potassium superoxide	-284.9	-239.4	116.7	77.5								
K <sub>2</sub>	Dipotassium									123.7	87.5	249.7	37.9
K <sub>2</sub> O	Potassium oxide	-361.5											
K <sub>2</sub> O <sub>2</sub>	Potassium peroxide	-494.1	-425.1	102.1									
K <sub>2</sub> O <sub>4</sub> S	Potassium sulfate	-1437.8	-1321.4	175.6	131.5								
K <sub>2</sub> S	Potassium sulfide	-380.7	-364.0	105.0									
K <sub>3</sub> O <sub>4</sub> P	Potassium phosphate	-1950.2											
Kr	Krypton									0.0		164.1	20.8
La	Lanthanum	0.0		56.9	27.1					431.0	393.6	182.4	22.8
LaS	Lanthanum monosulfide	-456.0	-451.5	73.2	59.0								
La <sub>2</sub> O <sub>3</sub>	Lanthanum oxide	-1793.7	-1705.8	127.3	108.8								
Li	Lithium	0.0		29.1	24.8					159.3	126.6	138.8	20.8
LiNO <sub>2</sub>	Lithium nitrite	-372.4	-302.0	96.0									
LiNO <sub>3</sub>	Lithium nitrate	-483.1	-381.1	90.0									
Li <sub>2</sub>	Dilithium									215.9	174.4	197.0	36.1
Li <sub>2</sub> O	Lithium oxide	-597.9	-561.2	37.6	54.1								
Li <sub>2</sub> O <sub>2</sub>	Lithium peroxide	-634.3											
Li <sub>2</sub> O <sub>2</sub> Si	Lithium metasilicate	-1648.1	-1557.2	79.8	99.1								
Li <sub>2</sub> O <sub>4</sub> S	Lithium sulfate	-1436.5	-1321.7	115.1	117.6								
Li <sub>2</sub> S	Lithium sulfide	-441.4											
Li <sub>3</sub> O <sub>4</sub> P	Lithium phosphate	-2095.8											
Lr	Lawrencium	0.0											
Lu	Lutetium	0.0		51.0	26.9					427.6	387.8	184.8	20.9
Lu <sub>2</sub> O <sub>3</sub>	Lutetium oxide	-1878.2	-1789.0	110.0	101.8								
Md	Mendelevium	0.0											
Mg	Magnesium	0.0		32.7	24.9					147.1	112.5	148.6	20.8
MgN <sub>2</sub> O <sub>6</sub>	Magnesium nitrate	-790.7	-589.4	164.0	141.9								
MgO	Magnesium oxide	-601.6	-569.3	27.0	37.2								
MgO <sub>2</sub> S	Magnesium sulfate	-1284.9	-1170.6	91.6	96.5								
MgO <sub>4</sub> Se	Magnesium selenate	-968.5											
MgS	Magnesium sulfide	-346.0	-341.8	50.3	45.6								
Mg <sub>2</sub>	Dimagnesium									287.7			
Mg <sub>2</sub> O <sub>4</sub> Si	Magnesium orthosilicate	-2174.0	-2055.1	95.1	118.5								
Mn	Manganese	0.0		32.0	26.3					280.7	238.5	173.7	20.8
MnN <sub>2</sub> O <sub>6</sub>	Manganese(II) nitrate	-576.3											
MnNaO <sub>4</sub>	Sodium permanganate	-1156.0											
MnO	Manganese(II) oxide	-385.2	-362.9	59.7	45.4								
MnO <sub>2</sub>	Manganese(IV) oxide	-520.0	-465.1	53.1	54.1								
MnO <sub>3</sub> Si	Manganese(II) metasilicate	-1320.9	-1240.5	89.1	86.4								
MnS	Manganese(II) sulfide (a form)	-214.2	-218.4	78.2	50.0								
MnSe	Manganese(II) selenide	-106.7	-111.7	90.8	51.0								
Mn <sub>2</sub> O <sub>3</sub>	Manganese(III) oxide	-959.0	-881.1	110.5	107.7								
Mn <sub>2</sub> O <sub>4</sub> Si	Manganese(II) orthosilicate	-1730.5	-1632.1	163.2	129.9								
Mn <sub>3</sub> O <sub>4</sub>	Manganese(II,III) oxide	-1387.8	-1283.2	155.6	139.7								
Mo	Molybdenum	0.0		28.7	24.1					658.1	612.5	182.0	20.8
MoNa <sub>2</sub> O <sub>4</sub>	Sodium molybdate	-1468.1	-1354.3	159.7	141.7								
MoO <sub>2</sub>	Molybdenum(IV) oxide	-588.9	-533.0	46.3	56.0								
MoO <sub>3</sub>	Molybdenum(VI) oxide	-745.1	-668.0	77.7	75.0								
MoO <sub>4</sub> Pb	Lead(II) molybdate	-1051.9	-951.4	166.1	119.7								
MoS <sub>2</sub>	Molybdenum(IV) sulfide	-235.1	-225.9	62.6	63.6								
Mo <sub>3</sub> Si	Molybdenum silicide	-125.2	-125.7	106.3	93.1								
N	Nitrogen (atomic)									472.7	455.5	153.3	20.8
NNaO <sub>2</sub>	Sodium nitrite	-358.7	-284.6	103.8									
NNaO <sub>3</sub>	Sodium nitrate	-467.9	-367.0	116.5	92.9								

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
NO	Nitric oxide									91.3	87.6	210.8	29.9
NO <sub>2</sub>	Nitrogen dioxide									33.2	51.3	240.1	37.2
NO <sub>2</sub> Rb	Rubidium nitrite	-367.4	-306.2	172.0									
NO <sub>3</sub> Rb	Rubidium nitrate	-495.1	-395.8	147.3	102.1								
NO <sub>3</sub> Tl	Thallium(I) nitrate	-243.9	-152.4	160.7	99.5								
NP	Phosphorus nitride	-63.0								171.5	149.4	211.1	29.7
N <sub>2</sub>	Nitrogen									0.0		191.6	29.1
N <sub>2</sub> O	Nitrous oxide									81.6	103.7	220.0	38.6
N <sub>2</sub> O <sub>3</sub>	Nitrogen trioxide					50.3				86.6	142.4	314.7	72.7
N <sub>2</sub> O <sub>4</sub>	Nitrogen tetroxide					-19.5	97.5	209.2	142.7	11.1	99.8	304.4	79.2
N <sub>2</sub> O <sub>4</sub> Sr	Strontium nitrite	-762.3											
N <sub>2</sub> O <sub>5</sub>	Nitrogen pentoxide	-43.1	113.9	178.2	143.1					13.3	117.1	355.7	95.3
N <sub>2</sub> O <sub>6</sub> Pb	Lead(II) nitrate	-451.9											
N <sub>2</sub> O <sub>6</sub> Ra	Radium nitrate	-992.0	-796.1	222.0									
N <sub>2</sub> O <sub>6</sub> Sr	Strontium nitrate	-978.2	-780.0	194.6	149.9								
N <sub>2</sub> O <sub>6</sub> Zn	Zinc nitrate	-483.7											
N <sub>3</sub> Na	Sodium azide	21.7	93.8	96.9	76.6								
N <sub>4</sub> Si <sub>3</sub>	Silicon nitride	-743.5	-642.6	101.3									
Na	Sodium	0.0		51.3	28.2					107.5	77.0	153.7	20.8
NaO <sub>2</sub>	Sodium superoxide	-260.2	-218.4	115.9	72.1								
Na <sub>2</sub>	Disodium									142.1	103.9	230.2	37.6
Na <sub>2</sub> O	Sodium oxide	-414.2	-375.5	75.1	69.1								
Na <sub>2</sub> O <sub>2</sub>	Sodium peroxide	-510.9	-447.7	95.0	89.2								
Na <sub>2</sub> O <sub>3</sub> S	Sodium sulfite	-1100.8	-1012.5	145.9	120.3								
Na <sub>2</sub> O <sub>3</sub> Si	Sodium metasilicate	-1554.9	-1462.8	113.9									
Na <sub>2</sub> O <sub>4</sub> S	Sodium sulfate	-1387.1	-1270.2	149.6	128.2								
Na <sub>2</sub> S	Sodium sulfide	-364.8	-349.8	83.7									
Nb	Niobium	0.0		36.4	24.6					725.9	681.1	186.3	30.2
NbO	Niobium(II) oxide	-405.8	-378.6	48.1	41.3								
NbO <sub>2</sub>	Niobium(IV) oxide	-796.2	-740.5	54.5	57.5								
Nb <sub>2</sub> O <sub>5</sub>	Niobium(V) oxide	-1899.5	-1766.0	137.2	132.1								
Nd	Neodymium	0.0		71.5	27.5					327.6	292.4	189.4	22.1
Nd <sub>2</sub> O <sub>3</sub>	Neodymium oxide	-1807.9	-1720.8	158.6	111.3								
Ne	Neon									0.0		146.3	20.8
Ni	Nickel	0.0		29.9	26.1					429.7	384.5	182.2	23.4
NiO <sub>4</sub> S	Nickel(II) sulfate	-872.9	-759.7	92.0	138.0								
NiS	Nickel(II) sulfide	-82.0	-79.5	53.0	47.1								
Ni <sub>2</sub> O <sub>3</sub>	Nickel(III) oxide	-489.5											
No	Nobelium	0.0											
O	Oxygen (atomic)									249.2	231.7	161.1	21.9
OP	Phosphorus monoxide									-28.5	-51.9	222.8	31.8
OPb	Lead(II) oxide (massicot)	-217.3	-187.9	68.7	45.8								
OPb	Lead(II) oxide (litharge)	-219.0	-188.9	66.5	45.8								
OPd	Palladium(II) oxide	-85.4		31.4						348.9	325.9	218.0	
ORa	Radium oxide	-523.0											
ORb <sub>2</sub>	Rubidium oxide	-339.0											
ORh	Rhodium monoxide									385.0			
OS	Sulfur monoxide									6.3	-19.9	222.0	30.2
OSe	Selenium monoxide									53.4	26.8	234.0	31.3
OSi	Silicon monoxide									-99.6	-126.4	211.6	29.9
OSn	Tin(II) oxide	-280.7	-251.9	57.2	44.3					15.1	-8.4	232.1	31.6
OSr	Strontium oxide	-592.0	-561.9	54.4	45.0					1.5			
OTi	Titanium(II) oxide	-519.7	-495.0	50.0	40.0								
OTl <sub>2</sub>	Thallium(I) oxide	-178.7	-147.3	126.0									
OU	Uranium(II) oxide									21.0			
OV	Vanadium(II) oxide	-431.8	-404.2	38.9	45.4								
OZn	Zinc oxide	-350.5	-320.5	43.7	40.3								
O <sub>2</sub>	Oxygen									0.0		205.2	29.4
O <sub>2</sub> P	Phosphorus dioxide									-279.9	-281.6	252.1	39.5
O <sub>2</sub> Pb	Lead(IV) oxide	-277.4	-217.3	68.6	64.6								
O <sub>2</sub> Rb	Rubidium superoxide	-278.7											
O <sub>2</sub> Rb <sub>2</sub>	Rubidium peroxide	-472.0											
O <sub>2</sub> Ru	Ruthenium(IV) oxide	-305.0											
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 (α-quartz)	-910.7	-856.3	41.5	44.4					-322.0			

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> 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> Pr <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,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,V) 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>8</sub> U <sub>3</sub>	Uranium(V,V) 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
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

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
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 (α 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
<i>Substances containing carbon:</i>													
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								
CAgN	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
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



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
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
CClN	Cyanogen chloride					112.1				138.0	131.0	236.2	45.0
CClN <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	Methyldyne									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
(CH <sub>2</sub> O) <sub>x</sub>	Paraformaldehyde	-177.6											
CH <sub>2</sub> O <sub>2</sub>	Formic acid					-425.0	-361.4	129.0	99.0	-378.7			
CH <sub>2</sub> S <sub>3</sub>	Trithiocarbonic acid					24.0							

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
CH <sub>3</sub>	Methyl									145.7	147.9	194.2	38.7
CH <sub>3</sub> BO	Borane carbonyl									-111.2	-92.9	249.4	59.5
CH <sub>3</sub> Br	Bromomethane					-59.8				-35.4	-26.3	246.4	42.4
CH <sub>3</sub> Cl	Chloromethane									-81.9		234.6	40.8
CH <sub>3</sub> Cl <sub>2</sub> Si	Methyltrichlorosilane							262.8	163.1	-528.9		351.1	102.4
CH <sub>3</sub> F	Fluoromethane											222.9	37.5
CH <sub>3</sub> I	Iodomethane					-13.6		163.2	126.0	14.4		254.1	44.1
CH <sub>3</sub> NO	Formamide					-254.0				-193.9			
CH <sub>3</sub> NO <sub>2</sub>	Nitromethane					-112.6	-14.4	171.8	106.6	-80.8		282.9	55.5
CH <sub>3</sub> NO <sub>2</sub>	Methyl nitrite									-66.1			
CH <sub>3</sub> NO <sub>3</sub>	Methyl nitrate					-156.3	-43.4	217.1	157.3	-122.0		305.8	76.6
CH <sub>4</sub>	Methane									-74.6	-50.5	186.3	35.7
CH <sub>5</sub> N <sub>2</sub>	Ammonium cyanide	0.4			134.0								
CH <sub>4</sub> N <sub>2</sub> O	Urea	-333.1								-245.8			
CH <sub>4</sub> N <sub>2</sub> S	Thiourea	-89.1								22.9			
CH <sub>5</sub> N <sub>4</sub> O <sub>2</sub>	Nitroguanidine	-92.4											
CH <sub>4</sub> O	Methanol					-239.2	-166.6	126.8	81.1	-201.0	-162.3	239.9	44.1
CH <sub>4</sub> S	Methanethiol					-46.7	-7.7	169.2	90.5	-22.9	-9.3	255.2	50.3
CH <sub>5</sub> N	Methylamine					-47.3	35.7	150.2	102.1	-22.5	32.7	242.9	50.1
CH <sub>5</sub> NO <sub>3</sub>	Ammonium hydrogen carbonate	-849.4	-665.9	120.9									
CH <sub>5</sub> N <sub>3</sub>	Guanidine	-56.0											
CH <sub>5</sub> N <sub>2</sub> S	Hydrazinecarbothioamide	24.7											
CH <sub>5</sub> N <sub>3</sub> O <sub>2</sub>	3-Amino-1-nitroguanidine	22.1											
CH <sub>6</sub> CIN	Methylamine hydrochloride	-298.1											
CH <sub>6</sub> N <sub>2</sub>	Methylhydrazine					54.2	180.0	165.9	134.9	94.7	187.0	278.8	71.1
CH <sub>6</sub> Si	Methylsilane											256.5	65.9
CHg <sub>2</sub> O <sub>3</sub>	Mercury(II) carbonate	-553.5	-468.1	180.0									
CIN	Cyanogen iodide	166.2	185.0	96.2						225.5	196.6	256.8	48.3
Cl <sub>4</sub>	Tetraiodomethane	-392.9								474.0		391.9	95.9
CKN	Potassium cyanide	-113.0	-101.9	128.5	66.3								
CKNS	Potassium thiocyanate	-200.2	-178.3	124.3	88.5								
CK <sub>2</sub> O <sub>3</sub>	Potassium carbonate	-1151.0	-1063.5	155.5	114.4								
CLi <sub>2</sub> O <sub>3</sub>	Lithium carbonate	-1215.9	-1132.1	90.4	99.1								
CMgO <sub>3</sub>	Magnesium carbonate	-1095.8	-1012.1	65.7	75.5								
CMnO <sub>3</sub>	Manganese(II) carbonate	-894.1	-816.7	85.8	81.5								
CN	Cyanide									437.6	407.5	202.6	29.2
CNNa	Sodium cyanide	-87.5	-76.4	115.6	70.4								
CNNaO	Sodium cyanate	-405.4	-358.1	96.7	86.6								
CN <sub>4</sub> O <sub>8</sub>	Tetranitromethane					38.4				82.4		503.7	176.1
CNa <sub>2</sub> O <sub>3</sub>	Sodium carbonate	-1130.7	-1044.4	135.0	112.3								
CO	Carbon monoxide									-110.5	-137.2	197.7	29.1
COS	Carbon oxysulfide									-142.0	-169.2	231.6	41.5
CO <sub>2</sub>	Carbon dioxide									-393.5	-394.4	213.8	37.1
CO <sub>3</sub> Pb	Lead(II) carbonate	-699.1	-625.5	131.0	87.4								
CO <sub>3</sub> Rb <sub>2</sub>	Rubidium carbonate	-1136.0	-1051.0	181.3	117.6								
CO <sub>3</sub> Sr	Strontium carbonate	-1220.1	-1140.1	97.1	81.4								
CO <sub>3</sub> Tl <sub>2</sub>	Thallium(I) carbonate	-700.0	-614.6	155.2									
CO <sub>3</sub> Zn	Zinc carbonate	-812.8	-731.5	82.4	79.7								
CS	Carbon monosulfide									280.3	228.8	210.6	29.8
CS <sub>2</sub>	Carbon disulfide					89.0	64.6	151.3	76.4	116.7	67.1	237.8	45.4
CSe <sub>2</sub>	Carbon diselenide					164.8							
CSi	Silicon carbide (cubic)	-65.3	-62.8	16.6	26.9								
CSi	Silicon carbide (hexagonal)	-62.8	-60.2	16.5	26.7								
C <sub>2</sub>	Dicarbon									831.9	775.9	199.4	43.2
C <sub>2</sub> BrF <sub>5</sub>	Bromopentafluoroethane									-1064.4			
C <sub>2</sub> Br <sub>2</sub> ClF <sub>3</sub>	1,2-Dibromo-1-chloro-1,2,2-trifluoroethane					-691.7				-656.6			
C <sub>2</sub> Br <sub>2</sub> F <sub>4</sub>	1,2-Dibromotetrafluoroethane					-817.7				-789.1			
C <sub>2</sub> Br <sub>4</sub>	Tetrabromoethene											387.1	102.7
C <sub>2</sub> Br <sub>6</sub>	Hexabromoethane											441.9	139.3
C <sub>2</sub> Ca	Calcium carbide	-59.8	-64.9	70.0	62.7								
C <sub>2</sub> CaN <sub>2</sub>	Calcium cyanide	-184.5											
C <sub>2</sub> CaO <sub>4</sub>	Calcium oxalate	-1360.6											
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>4</sub> O <sub>2</sub>	Oxalyl chloride					-367.6				-335.8			

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>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	Trichloroacetnitrile											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	Trifluoroacetnitrile									-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> BrF <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>2</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>3</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
C <sub>2</sub> H <sub>3</sub> Cl <sub>2</sub> F	1,1-Dichloro-1-fluoroethane											320.2	88.7
C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	1,1,1-Trichloroethane					-177.4		227.4	144.3	-144.4		323.1	93.3
C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	1,1,2-Trichloroethane					-190.8		232.6	150.9	-151.3		337.2	89.0
C <sub>2</sub> H <sub>3</sub> F	Fluoroethene									-138.8			
C <sub>2</sub> H <sub>3</sub> FO	Acetyl fluoride					-467.2				-442.1			
C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>	1,1,1-Trifluoroethane									-744.6		279.9	78.2
C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>	1,1,2-Trifluoroethane									-730.7			
C <sub>2</sub> H <sub>3</sub> F <sub>3</sub> O	2,2,2-Trifluoroethanol					-932.4				-888.4			
C <sub>2</sub> H <sub>3</sub> I	Iodoethene											285.0	57.9

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
C <sub>2</sub> H <sub>3</sub> IO	Acetyl iodide					-163.5				-126.4			
C <sub>2</sub> H <sub>3</sub> KO <sub>2</sub>	Potassium acetate	-723.0											
C <sub>2</sub> H <sub>3</sub> N	Acetonitrile					40.6	86.5	149.6	91.5	74.0	91.9	243.4	52.2
C <sub>2</sub> H <sub>3</sub> N	Isocyanomethane					130.8	159.5	159.0		163.5	165.7	246.9	52.9
C <sub>2</sub> H <sub>3</sub> NO	Methyl isocyanate					-92.0							
C <sub>2</sub> H <sub>3</sub> NO <sub>2</sub>	Nitroethene									33.3		300.5	73.7
C <sub>2</sub> H <sub>3</sub> NO <sub>3</sub>	Oxamic acid	-661.2								-552.3			
C <sub>2</sub> H <sub>3</sub> NS	Methyl isothiocyanate	79.4											
C <sub>2</sub> H <sub>3</sub> NaO <sub>2</sub>	Sodium acetate	-708.8	-607.2	123.0	79.9								
C <sub>2</sub> H <sub>4</sub>	Ethylene									52.4	68.4	219.3	42.9
C <sub>2</sub> H <sub>4</sub> BrCl	1-Bromo-2-chloroethane								130.1				
C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1,1-Dibromoethane					-66.2						327.7	80.8
C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1,2-Dibromoethane					-79.2		223.3	136.0	-37.5			
C <sub>2</sub> H <sub>4</sub> ClF	1-Chloro-1-fluoroethane									-313.4			
C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	1,1-Dichloroethane					-158.4	-73.8	211.8	126.3	-127.7	-70.8	305.1	76.2
C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	1,2-Dichloroethane					-166.8			128.4	-126.4		308.4	78.7
C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>	1,1-Difluoroethane									-497.0		282.5	67.8
C <sub>2</sub> H <sub>4</sub> I <sub>2</sub>	1,2-Diiodoethane	9.3								75.0			
C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	Oxamide	-504.4								-387.1			
C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	Ethanedial dioxime	-90.5											
C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>	1,1-Dinitroethane					-148.2							
C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>	1,2-Dinitroethane					-165.2							
C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> S <sub>2</sub>	Ethanedithioamide	-20.8								83.0			
C <sub>2</sub> H <sub>4</sub> N <sub>4</sub>	1 <i>H</i> -1,2,4-Triazol-3-amine	76.8											
C <sub>2</sub> H <sub>4</sub> O	Acetaldehyde					-192.2	-127.6	160.2	89.0	-166.2	-133.0	263.8	55.3
C <sub>2</sub> H <sub>4</sub> O	Oxirane					-78.0	-11.8	153.9	88.0	-52.6	-13.0	242.5	47.9
C <sub>2</sub> H <sub>4</sub> OS	Thioacetic acid					-216.9				-175.1			
C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	Acetic acid					-484.3	-389.9	159.8	123.3	-432.2	-374.2	283.5	63.4
C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	Methyl formate					-386.1			119.1	-357.4		285.3	64.4
C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	Peroxyacetic acid												82.4
C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	Glycolic acid									-583.0	-504.9	318.6	87.1
C <sub>2</sub> H <sub>4</sub> S	Thiirane					51.6				82.0	96.8	255.2	53.3
C <sub>2</sub> H <sub>4</sub> Si	Ethynylsilane											269.4	72.6
C <sub>2</sub> H <sub>5</sub> Br	Bromoethane					-90.5	-25.8	198.7	100.8	-61.9	-23.9	286.7	64.5
C <sub>2</sub> H <sub>5</sub> Cl	Chloroethane					-136.8	-59.3	190.8	104.3	-112.1	-60.4	276.0	62.8
C <sub>2</sub> H <sub>5</sub> ClO	2-Chloroethanol					-295.4							
C <sub>2</sub> H <sub>5</sub> F	Fluoroethane											264.5	58.6
C <sub>2</sub> H <sub>5</sub> I	Iodoethane					-40.0	14.7	211.7	115.1	-8.1	19.2	306.0	66.9
C <sub>2</sub> H <sub>5</sub> N	Ethyleneimine					91.9				126.5			
C <sub>2</sub> H <sub>5</sub> NO	Acetamide	-317.0		115.0	91.3					-238.3			
C <sub>2</sub> H <sub>5</sub> NO	<i>N</i> -Methylformamide								123.8				
C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	Nitroethane					-143.9			134.4	-103.8		320.5	79.0
C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	Glycine	-528.5								-392.1			
C <sub>2</sub> H <sub>5</sub> NO <sub>3</sub>	2-Nitroethanol					-350.7							
C <sub>2</sub> H <sub>5</sub> NO <sub>3</sub>	Ethyl nitrate					-190.4				-154.1			
C <sub>2</sub> H <sub>5</sub> NS	Thioacetamide	-71.7								11.4			
C <sub>2</sub> H <sub>6</sub>	Ethane									-84.0	-32.0	229.2	52.5
C <sub>2</sub> H <sub>6</sub> Cd	Dimethyl cadmium					63.6	139.0	201.9	132.0	101.6	146.9	303.0	
C <sub>2</sub> H <sub>6</sub> Hg	Dimethyl mercury					59.8	140.3	209.0		94.4	146.1	306.0	83.3
C <sub>2</sub> H <sub>6</sub> N <sub>2</sub> O	<i>N</i> -Methylurea	-332.8											
C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> O <sub>2</sub>	1,2-Hydrazinedicarboxamide	-498.7											
C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> O <sub>2</sub>	Oxalyl dihydrazide	-295.2											
C <sub>2</sub> H <sub>6</sub> O	Ethanol					-277.6	-174.8	160.7	112.3	-234.8	-167.9	281.6	65.6
C <sub>2</sub> H <sub>6</sub> O	Dimethyl ether					-203.3				-184.1	-112.6	266.4	64.4
C <sub>2</sub> H <sub>6</sub> OS	Dimethyl sulfoxide					-204.2	-99.9	188.3	153.0	-151.3			
C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	Ethylene glycol					-460.0		163.2	148.6	-392.2		303.8	82.7
C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> S	Dimethyl sulfone	-450.1	-302.4	142.0						-373.1	-272.7	310.6	100.0
C <sub>2</sub> H <sub>6</sub> O <sub>3</sub> S	Dimethyl sulfite					-523.6				-483.4			
C <sub>2</sub> H <sub>6</sub> O <sub>4</sub> S	Dimethyl sulfate					-735.5				-687.0			
C <sub>2</sub> H <sub>6</sub> S	Ethanethiol					-73.6	-5.5	207.0	117.9	-46.1	-4.8	296.2	72.7
C <sub>2</sub> H <sub>6</sub> S	Dimethyl sulfide					-65.3		196.4	118.1	-37.4		286.0	74.1
C <sub>2</sub> H <sub>6</sub> S <sub>2</sub>	1,2-Ethanedithiol					-54.3				-9.7			
C <sub>2</sub> H <sub>6</sub> S <sub>2</sub>	Dimethyl disulfide					-62.6		235.4	146.1	-24.7			
C <sub>2</sub> H <sub>6</sub> Zn	Dimethyl zinc					23.4		201.6	129.2	53.0			
C <sub>2</sub> H <sub>7</sub> N	Ethylamine					-74.1			130.0	-47.5	36.3	283.8	71.5
C <sub>2</sub> H <sub>7</sub> N	Dimethylamine					-43.9	70.0	182.3	137.7	-18.8	68.5	273.1	70.7

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>2</sub> H <sub>7</sub> NO	Ethanolamine								195.5				
C <sub>2</sub> H <sub>9</sub> ClN	Dimethylamine hydrochloride	-289.3											
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub>	1,2-Ethanediamine					-63.0			172.6	-18.0			
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub>	1,1-Dimethylhydrazine					48.9	206.4	198.0	164.1	84.1			
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub>	1,2-Dimethylhydrazine					52.7				92.2			
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>	Ammonium oxalate	-1123.0			226.0								
C <sub>2</sub> HgO <sub>4</sub>	Mercury(II) oxalate	-678.2											
C <sub>2</sub> I <sub>2</sub>	Diiodoacetylene											313.1	70.3
C <sub>2</sub> I <sub>4</sub>	Tetraiodoethene	305.0											
C <sub>2</sub> K <sub>2</sub> O <sub>4</sub>	Potassium oxalate	-1346.0											
C <sub>2</sub> MgO <sub>4</sub>	Magnesium oxalate	-1269.0											
C <sub>2</sub> N <sub>2</sub>	Cyanogen					285.9				306.7		241.9	56.8
C <sub>2</sub> N <sub>4</sub> O <sub>6</sub>	Trinitroacetone nitrile					183.7							
C <sub>2</sub> Na <sub>2</sub> O <sub>4</sub>	Sodium oxalate									-1318.0			
C <sub>2</sub> O <sub>4</sub> Pb	Lead(II) oxalate	-851.4	-750.1	146.0	105.4								
C <sub>3</sub> F <sub>8</sub>	Perfluoropropane									-1783.2			
C <sub>3</sub> H <sub>2</sub> N <sub>2</sub>	Malononitrile	186.4								265.5			
C <sub>3</sub> H <sub>2</sub> O <sub>2</sub>	2-Propynoic acid					-193.2							
C <sub>3</sub> H <sub>2</sub> O <sub>3</sub>	1,3-Dioxol-2-one					-459.9				-418.6			
C <sub>3</sub> H <sub>3</sub> Cl <sub>3</sub>	1,2,3-Trichloropropene					-101.8							
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub>	3,3,3-Trifluoropropene									-614.2			
C <sub>3</sub> H <sub>3</sub> N	Acrylonitrile					147.1				180.6			
C <sub>3</sub> H <sub>3</sub> NO	Oxazole					-48.0				-15.5			
C <sub>3</sub> H <sub>3</sub> NO	Isoxazole					42.1				78.6			
C <sub>3</sub> H <sub>4</sub>	Allene									190.5			
C <sub>3</sub> H <sub>4</sub>	Propyne									184.9			
C <sub>3</sub> H <sub>4</sub>	Cyclopropene									277.1			
C <sub>3</sub> H <sub>4</sub> Cl <sub>2</sub>	2,3-Dichloropropene					-73.3							
C <sub>3</sub> H <sub>4</sub> Cl <sub>4</sub>	1,1,1,3-Tetrachloropropene					-208.7							
C <sub>3</sub> H <sub>4</sub> Cl <sub>4</sub>	1,2,2,3-Tetrachloropropene					-251.8							
C <sub>3</sub> H <sub>4</sub> F <sub>4</sub> O	2,2,3,3-Tetrafluoro-1-propanol					-1114.9				-1061.3			
C <sub>3</sub> H <sub>4</sub> N <sub>2</sub>	1 <i>H</i> -Pyrazole	105.4			81.0					179.4			
C <sub>3</sub> H <sub>4</sub> N <sub>2</sub>	Imidazole	49.8								132.9			
C <sub>3</sub> H <sub>4</sub> O	Acrolein												71.3
C <sub>3</sub> H <sub>4</sub> O <sub>2</sub>	1,2-Propanedione					-309.1				-271.0			
C <sub>3</sub> H <sub>4</sub> O <sub>2</sub>	Acrylic acid					-383.8			145.7				
C <sub>3</sub> H <sub>4</sub> O <sub>2</sub>	2-Oxetanone					-329.9		175.3	122.1	-282.9			
C <sub>3</sub> H <sub>4</sub> O <sub>3</sub>	Ethylene carbonate					-682.8			133.9	-508.4			
C <sub>3</sub> H <sub>5</sub> Br	<i>cis</i> -1-Bromopropene					7.9				40.8			
C <sub>3</sub> H <sub>5</sub> Br	3-Bromopropene					12.2				45.2			
C <sub>3</sub> H <sub>5</sub> BrO	Bromoacetone									-181.0			
C <sub>3</sub> H <sub>5</sub> Cl	2-Chloropropene									-21.0			
C <sub>3</sub> H <sub>5</sub> Cl	3-Chloropropene								125.1				
C <sub>3</sub> H <sub>5</sub> ClO	Epichlorohydrin					-148.4			131.6	-107.8			
C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub>	2-Chloropropanoic acid					-522.5				-475.8			
C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub>	3-Chloropropanoic acid	-549.3											
C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub>	Ethyl chloroformate					-505.3				-462.9			
C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub>	Methyl chloroacetate					-487.0				-444.0			
C <sub>3</sub> H <sub>5</sub> Cl <sub>3</sub>	1,2,3-Trichloropropane					-230.6			183.6	-182.9			
C <sub>3</sub> H <sub>5</sub> I	3-Iodopropene					53.7				91.5			
C <sub>3</sub> H <sub>5</sub> IO	Iodoacetone									-130.5			
C <sub>3</sub> H <sub>5</sub> IO <sub>2</sub>	3-Iodopropanoic acid	-460.0											
C <sub>3</sub> H <sub>5</sub> N	Propanenitrile					15.5			119.3	51.7			
C <sub>3</sub> H <sub>5</sub> N	2-Propyn-1-amine					205.7							
C <sub>3</sub> H <sub>5</sub> N	Ethyl isocyanide					108.6				141.7			
C <sub>3</sub> H <sub>5</sub> NO	Acrylamide	-212.1			110.6	-224.0				-130.2			
C <sub>3</sub> H <sub>5</sub> NO <sub>3</sub>	Nitroacetone					-278.6							
C <sub>3</sub> H <sub>5</sub> NO <sub>4</sub>	Methyl nitroacetate					-464.0							
C <sub>3</sub> H <sub>5</sub> N <sub>3</sub> O <sub>9</sub>	Trinitroglycerol					-370.9				-279.1		545.9	234.2
C <sub>3</sub> H <sub>6</sub>	Propene					4.0				20.0			
C <sub>3</sub> H <sub>6</sub>	Cyclopropane					35.2				53.3	104.5	237.5	55.6
C <sub>3</sub> H <sub>6</sub> Br <sub>2</sub>	1,2-Dibromopropane					-113.6				-71.6			
C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub>	1,2-Dichloropropane, (±)					-198.8			149.1	-162.8			
C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub>	1,3-Dichloropropane					-199.9				-159.2			
C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub>	2,2-Dichloropropane					-205.8				-173.2			
C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub> O	2,3-Dichloro-1-propanol					-381.5				-316.3			

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
$C_3H_6Cl_2O$	1,3-Dichloro-2-propanol					-385.3				-318.4			
$C_3H_6I_2$	1,2-Diiodopropane									35.6			
$C_3H_6I_2$	1,3-Diiodopropane					-9.0							
$C_3H_6N_2O_2$	Propanediamide	-546.1											
$C_3H_6N_2O_2$	<i>N</i> -(Aminocarbonyl)acetamide	-544.2								-441.2			
$C_3H_6N_2O_4$	1,1-Dinitropropane					-163.2				-100.7			
$C_3H_6N_2O_4$	1,3-Dinitropropane					-207.1							
$C_3H_6N_2O_4$	2,2-Dinitropropane					-181.2							
$C_3H_6N_6O_6$	Hexahydro-1,3,5-trinitro-1,3,5-triazine									192.0		482.4	230.2
$C_3H_6O$	Allyl alcohol					-171.8			138.9	-124.5			
$C_3H_6O$	Propanal					-215.6				-185.6		304.5	80.7
$C_3H_6O$	Acetone					-248.4		199.8	126.3	-217.1	-152.7	295.3	74.5
$C_3H_6O$	Methyloxirane					-123.0		196.5	120.4	-94.7		286.9	72.6
$C_3H_6O$	Oxetane					-110.8				-80.5			
$C_3H_6O_2$	Propanoic acid					-510.7		191.0	152.8	-455.7			
$C_3H_6O_2$	Ethyl formate								149.3				
$C_3H_6O_2$	Methyl acetate					-445.9			141.9	-413.3		324.4	86.0
$C_3H_6O_2$	1,3-Dioxolane					-333.5			118.0	-298.0			
$C_3H_6O_2S$	Thiolactic acid					-468.4							
$C_3H_6O_3$	1,3,5-Trioxane	-522.5		133.0	111.4					-465.9			
$C_3H_6S$	Thietane					24.7		184.9		60.6	107.1	285.0	68.3
$C_3H_6S$	Methylthiirane					11.3				45.8			
$C_3H_6S_2$	1,2-Dithiolane									0.0	47.7	313.5	86.5
$C_3H_6S_2$	1,3-Dithiolane									10.0	54.7	323.3	84.7
$C_3H_6S_3$	1,3,5-Trithiane									80.0	130.4	336.4	111.3
$C_3H_7Br$	1-Bromopropane					-121.9				-87.0			
$C_3H_7Br$	2-Bromopropane					-130.5				-99.4			
$C_3H_7Cl$	1-Chloropropane					-160.5				-131.9			
$C_3H_7Cl$	2-Chloropropane					-172.3				-144.9			
$C_3H_7ClO_2$	3-Chloro-1,2-propanediol					-525.3							
$C_3H_7ClO_2$	2-Chloro-1,3-propanediol					-517.5							
$C_3H_7F$	1-Fluoropropane									-285.9			
$C_3H_7F$	2-Fluoropropane									-293.5			
$C_3H_7I$	1-Iodopropane					-66.0				-30.0			
$C_3H_7I$	2-Iodopropane					-74.8				-40.3			
$C_3H_7N$	Allylamine					-10.0							
$C_3H_7N$	Cyclopropylamine					45.8		187.7	147.1	77.0			
$C_3H_7NO$	<i>N,N</i> -Dimethylformamide					-239.3			150.6	-192.4			
$C_3H_7NO$	Propanamide	-338.2								-259.0			
$C_3H_7NO_2$	1-Nitropropane					-167.2				-124.3		350.0	104.1
$C_3H_7NO_2$	2-Nitropropane					-180.3			170.3	-138.9			
$C_3H_7NO_2$	Ethyl carbamate	-517.1			156.4	-497.3				-446.3			
$C_3H_7NO_2$	<i>DL</i> -Alanine	-563.6											
$C_3H_7NO_2$	<i>D</i> -Alanine	-561.2											
$C_3H_7NO_2$	<i>L</i> -Alanine	-604.0								-465.9			
$C_3H_7NO_2$	$\beta$ -Alanine	-558.0								-424.0			
$C_3H_7NO_2$	Sarcosine	-513.3								-367.3			
$C_3H_7NO_2S$	<i>L</i> -Cysteine	-534.1											
$C_3H_7NO_3$	Propyl nitrate					-214.5				-174.1		362.6	123.2
$C_3H_7NO_3$	Isopropyl nitrate					-229.7				-191.0			
$C_3H_7NO_3$	<i>DL</i> -Serine	-739.0											
$C_3H_7NO_3$	<i>L</i> -Serine	-732.7											
$C_3H_8$	Propane					-120.9				-103.8	-23.4	270.3	73.6
$C_3H_8N_2O$	<i>N</i> -Ethylurea	-357.8											
$C_3H_8N_2O$	<i>N,N</i> -Dimethylurea	-319.1											
$C_3H_8N_2O$	<i>N,N'</i> -Dimethylurea	-312.1											
$C_3H_8N_2O_3$	Oxymethurea	-717.0											
$C_3H_8O$	1-Propanol					-302.6		193.6	143.9	-255.1		322.6	85.6
$C_3H_8O$	2-Propanol					-318.1		181.1	156.5	-272.6		309.2	89.3
$C_3H_8O$	Ethyl methyl ether									-216.4		309.2	93.3
$C_3H_8O_2$	1,2-Propylene glycol					-501.0			190.8	-429.8			
$C_3H_8O_2$	1,3-Propylene glycol					-480.8				-408.0			
$C_3H_8O_2$	Ethylene glycol monomethyl ether								171.1				
$C_3H_8O_2$	Dimethoxymethane					-377.8		244.0	162.0	-348.5			
$C_3H_8O_3$	Glycerol					-669.6		206.3	218.9	-577.9			
$C_3H_8S$	1-Propanethiol					-99.9		242.5	144.6	-67.8			

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>3</sub> H <sub>8</sub> S	2-Propanethiol					-105.9		233.5	145.3	-76.2			
C <sub>3</sub> H <sub>8</sub> S	Ethyl methyl sulfide					-91.6		239.1	144.6	-59.6			
C <sub>3</sub> H <sub>8</sub> S <sub>2</sub>	1,3-Propanedithiol					-79.4				-29.8			
C <sub>3</sub> H <sub>9</sub> Al	Trimethyl aluminum					-136.4	-9.9	209.4	155.6	-74.1			
C <sub>3</sub> H <sub>9</sub> B	Trimethylborane					-143.1	-32.1	238.9		-124.3	-35.9	314.7	88.5
C <sub>3</sub> H <sub>9</sub> BO <sub>3</sub>	Trimethyl borate								189.9				
C <sub>3</sub> H <sub>9</sub> ClSi	Trimethylchlorosilane					-382.8	-246.4	278.2		-352.8	-243.5	369.1	
C <sub>3</sub> H <sub>9</sub> N	Propylamine					-101.5			164.1	-70.1	39.9	325.4	91.2
C <sub>3</sub> H <sub>9</sub> N	Isopropylamine					-112.3		218.3	163.8	-83.7	32.2	312.2	97.5
C <sub>3</sub> H <sub>9</sub> N	Trimethylamine					-45.7		208.5	137.9	-23.6		287.1	91.8
C <sub>3</sub> H <sub>10</sub> CIN	Propylamine hydrochloride	-354.7											
C <sub>3</sub> H <sub>10</sub> CIN	Trimethylamine hydrochloride	-282.9											
C <sub>3</sub> H <sub>10</sub> N <sub>2</sub>	1,2-Propanediamine, (±)					-97.8				-53.6			
C <sub>3</sub> H <sub>10</sub> Si	Trimethylsilane											331.0	117.9
C <sub>3</sub> H <sub>12</sub> BN	Trimethylamine borane	-142.5	70.7	187.0									
C <sub>3</sub> H <sub>12</sub> BN	Aminotrimethylboron	-284.1	-79.3	218.0									
C <sub>4</sub> Cl <sub>6</sub>	Hexachloro-1,3-butadiene					-24.5							
C <sub>4</sub> F <sub>8</sub>	Perfluorocyclobutane									-1542.6			
C <sub>4</sub> F <sub>10</sub>	Perfluorobutane								127.2				
C <sub>4</sub> H <sub>2</sub> N <sub>2</sub>	<i>trans</i> -2-Butenedinitrile	268.2								340.2			
C <sub>4</sub> H <sub>2</sub> O <sub>3</sub>	Maleic anhydride	-469.8								-398.3			
C <sub>4</sub> H <sub>2</sub> O <sub>4</sub>	2-Butyenedioic acid	-577.3											
C <sub>4</sub> H <sub>3</sub> NO <sub>3</sub>	2-Nitrofuran	-104.1								-28.8			
C <sub>4</sub> H <sub>4</sub> BrNO <sub>2</sub>	<i>N</i> -Bromosuccinimide	-335.9											
C <sub>4</sub> H <sub>4</sub> ClNO <sub>2</sub>	<i>N</i> -Chlorosuccinimide	-357.9											
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>	Succinonitrile	139.7		191.6	145.6					209.7			
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>	Pyrazine	139.8								196.1			
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>	Pyrimidine					145.9				195.7			
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub>	Pyridazine					224.9				278.3			
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	Uracil	-429.4			120.5					-302.9			
C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	Barbituric acid	-634.7											
C <sub>4</sub> H <sub>4</sub> O	Furan					-62.3		177.0	114.8	-34.8		267.2	65.4
C <sub>4</sub> H <sub>4</sub> O <sub>2</sub>	Diketene					-233.1				-190.3			
C <sub>4</sub> H <sub>4</sub> O <sub>3</sub>	Succinic anhydride	-608.6								-527.9			
C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	Maleic acid	-789.4		160.8	137.0					-679.4			
C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	Fumaric acid	-811.7		168.0	142.0					-675.8			
C <sub>4</sub> H <sub>4</sub> S	Thiophene					80.2		181.2	123.8	114.9	126.1	278.8	72.8
C <sub>4</sub> H <sub>5</sub> N	<i>trans</i> -2-Butenenitrile					95.1				134.3			
C <sub>4</sub> H <sub>5</sub> N	3-Butenenitrile					117.8				159.7			
C <sub>4</sub> H <sub>5</sub> N	2-Methylacrylonitrile								126.3				
C <sub>4</sub> H <sub>5</sub> N	Pyrrole					63.1		156.4	127.7	108.2			
C <sub>4</sub> H <sub>5</sub> N	Cyclopropanecarbonitrile					140.8				182.8			
C <sub>4</sub> H <sub>5</sub> NO <sub>2</sub>	Succinimide	-459.0								-375.4			
C <sub>4</sub> H <sub>5</sub> NS	4-Methylthiazole					67.9				111.8			
C <sub>4</sub> H <sub>5</sub> N <sub>3</sub> O	Cytosine	-221.3			132.6								
C <sub>4</sub> H <sub>6</sub>	1,2-Butadiene					138.6				162.3			
C <sub>4</sub> H <sub>6</sub>	1,3-Butadiene					88.5		199.0	123.6	110.0			
C <sub>4</sub> H <sub>6</sub>	1-Butyne					141.4				165.2			
C <sub>4</sub> H <sub>6</sub>	2-Butyne					119.1				145.7			
C <sub>4</sub> H <sub>6</sub>	Cyclobutene									156.7			
C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	2,5-Piperazinedione	-446.5											
C <sub>4</sub> H <sub>6</sub> O	Divinyl ether					-39.8				-13.6			
C <sub>4</sub> H <sub>6</sub> O	<i>trans</i> -2-Butenal					-138.7				-100.6			
C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	<i>trans</i> -2-Butenoic acid												
C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	Methacrylic acid								161.1				
C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	Vinyl acetate					-349.2				-314.4			
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							



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>7</sub> ClO <sub>2</sub>	3-Chlorobutanoic acid					-556.3							
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>4</sub> O <sub>8</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, (±)					-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			
C <sub>4</sub> H <sub>9</sub> Cl	2-Chlorobutane					-192.8				-161.1			
C <sub>4</sub> H <sub>9</sub> Cl	1-Chloro-2-methylpropane					-191.1				-159.3			
C <sub>4</sub> H <sub>9</sub> Cl	2-Chloro-2-methylpropane					-211.3				-182.2			
C <sub>4</sub> H <sub>9</sub> ClO	2-Chloroethyl ethyl ether					-335.6				-301.3			
C <sub>4</sub> H <sub>9</sub> I	1-Iodo-2-methylpropane								162.3				
C <sub>4</sub> H <sub>9</sub> I	2-Iodo-2-methylpropane					-107.5				-72.1			
C <sub>4</sub> H <sub>9</sub> N	Cyclobutanamine					5.6				41.2			
C <sub>4</sub> H <sub>9</sub> N	Pyrrolidine					-41.1		204.1	156.6	-3.6			
C <sub>4</sub> H <sub>9</sub> NO	Butanamide	-364.8								-282.0			
C <sub>4</sub> H <sub>9</sub> NO	N-Methylpropanamide								179.0				

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>9</sub> NO	2-Methylpropanamide	-368.6								-282.6			
C <sub>4</sub> H <sub>9</sub> NO	<i>N,N</i> -Dimethylacetamide					-278.3			175.6	-228.0			
C <sub>4</sub> H <sub>9</sub> NO	Morpholine								164.8				
C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>	1-Nitrobutane					-192.5				-143.9		369.9	115.1
C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>	2-Nitroisobutane					-217.2				-177.1			
C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>	Propyl carbamate	-552.6								-471.4			
C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>	4-Aminobutanoic acid	-581.0								-441.0			
C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>	3-Nitro-2-butanol					-390.0							
C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>	2-Methyl-2-nitro-1-propanol	-410.1											
C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>	<i>DL</i> -Threonine	-758.8											
C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>	<i>L</i> -Threonine	-807.2											
C <sub>4</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>	Creatine	-537.2											
C <sub>4</sub> H <sub>10</sub>	Butane					-147.3			140.9	-125.7			
C <sub>4</sub> H <sub>10</sub>	Isobutane					-154.2				-134.2			
C <sub>4</sub> H <sub>10</sub> Hg	Diethyl mercury					30.1			182.8	75.3			
C <sub>4</sub> H <sub>10</sub> N <sub>2</sub>	Piperazine	-45.6											
C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O	Trimethylurea	-330.5											
C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>	<i>N</i> -Nitrodiethylamine					-106.2				-53.0			
C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub>	<i>L</i> -Asparagine, monohydrate	-1086.6											
C <sub>4</sub> H <sub>10</sub> O	1-Butanol					-327.3		225.8	177.2	-274.9			
C <sub>4</sub> H <sub>10</sub> O	2-Butanol					-342.6		214.9	196.9	-292.8		359.5	112.7
C <sub>4</sub> H <sub>10</sub> O	2-Methyl-1-propanol					-334.7		214.7	181.5	-283.8			
C <sub>4</sub> H <sub>10</sub> O	2-Methyl-2-propanol					-359.2		193.3	218.6	-312.5		326.7	113.6
C <sub>4</sub> H <sub>10</sub> O	Diethyl ether					-279.5		253.5	172.5	-252.1		342.7	119.5
C <sub>4</sub> H <sub>10</sub> O	Methyl propyl ether					-266.0		262.9	165.4	-238.1			
C <sub>4</sub> H <sub>10</sub> O	Isopropyl methyl ether					-278.8		253.8	161.9	-252.0			
C <sub>4</sub> H <sub>10</sub> OS	Diethyl sulfoxide					-268.0				-205.6			
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	1,2-Butanediol, ( $\pm$ )					-523.6							
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	1,3-Butanediol					-501.0				-433.2			
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	1,4-Butanediol					-505.3		223.4	200.1	-428.7			
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	2,3-Butanediol					-541.5			213.0	-482.3			
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	2-Methyl-1,2-propanediol					-539.7							
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	Ethylene glycol monoethyl ether								210.8				
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	Ethylene glycol dimethyl ether					-376.6			193.3				
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	Dimethylacetal					-420.6				-389.7			
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	<i>tert</i> -Butyl hydroperoxide					-293.6				-245.9			
C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>	Diethylene glycol					-628.5			244.8	-571.2			
C <sub>4</sub> H <sub>10</sub> O <sub>3</sub> S	Diethyl sulfite					-600.7				-552.2			
C <sub>4</sub> H <sub>10</sub> O <sub>4</sub> S	Diethyl sulfate					-813.2				-756.3			
C <sub>4</sub> H <sub>10</sub> S	1-Butanethiol					-124.7			171.2	-88.0			
C <sub>4</sub> H <sub>10</sub> S	2-Butanethiol					-131.0				-96.9			
C <sub>4</sub> H <sub>10</sub> S	2-Methyl-1-propanethiol					-132.0				-97.3			
C <sub>4</sub> H <sub>10</sub> S	2-Methyl-2-propanethiol					-140.5				-109.6			
C <sub>4</sub> H <sub>10</sub> S	Diethyl sulfide					-119.4		269.3	171.4	-83.5		368.1	117.0
C <sub>4</sub> H <sub>10</sub> S	Methyl propyl sulfide					-118.5		272.5	171.6	-82.2			
C <sub>4</sub> H <sub>10</sub> S	Isopropyl methyl sulfide					-124.7		263.1	172.4	-90.5			
C <sub>4</sub> H <sub>10</sub> S <sub>2</sub>	1,4-Butanedithiol					-105.7				-50.6			
C <sub>4</sub> H <sub>10</sub> S <sub>2</sub>	Diethyl disulfide					-120.1		269.3	171.4	-79.4			
C <sub>4</sub> H <sub>11</sub> N	Butylamine					-127.6			179.2	-91.9			
C <sub>4</sub> H <sub>11</sub> N	<i>sec</i> -Butylamine					-137.5				-104.6			
C <sub>4</sub> H <sub>11</sub> N	<i>tert</i> -Butylamine					-150.6			192.1	-121.0			
C <sub>4</sub> H <sub>11</sub> N	Isobutylamine					-132.6			183.2	-98.7			
C <sub>4</sub> H <sub>11</sub> N	Diethylamine					-103.7			169.2	-72.2			
C <sub>4</sub> H <sub>11</sub> NO	<i>N,N</i> -Dimethylethanolamine					-253.7				-203.6			
C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub>	Diethanolamine	-493.8			233.5					-397.1			
C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub>	Tris(hydroxymethyl)methylamine	-717.8											
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> IN	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			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
C <sub>4</sub> NiO <sub>4</sub>	Nickel carbonyl												
C <sub>5</sub> FeO <sub>5</sub>	Iron pentacarbonyl					-633.0	-588.2	313.4	204.6	-602.9	-587.2	410.6	145.2
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								-387.0		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-butenolate					-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			
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			

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>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			
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	<i>L</i> -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			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
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, (±)					-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, (±)					-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-Pentanediol					-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			
C <sub>6</sub> H <sub>4</sub> F <sub>2</sub>	<i>p</i> -Difluorobenzene					-342.3			157.5	-306.7			
C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>	1,2-Dinitrobenzene	-2.0			200.4								
C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>	1,3-Dinitrobenzene	-27.0			197.5	-36.0							
C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>	1,4-Dinitrobenzene	-38.0			200.0								
C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> O <sub>5</sub>	2,4-Dinitrophenol	-232.7								-128.1			
C <sub>6</sub> H <sub>4</sub> O <sub>2</sub>	<i>p</i> -Benzoquinone	-185.7			129.0					-122.9			
C <sub>6</sub> H <sub>5</sub> Br	Bromobenzene					60.9		219.2	154.3				
C <sub>6</sub> H <sub>5</sub> Cl	Chlorobenzene					11.1			150.1	52.0			
C <sub>6</sub> H <sub>5</sub> ClO	2-Chlorophenol								188.7				
C <sub>6</sub> H <sub>5</sub> ClO	3-Chlorophenol	-206.4				-189.3							
C <sub>6</sub> H <sub>5</sub> ClO	4-Chlorophenol	-197.7				-181.3							
C <sub>6</sub> H <sub>5</sub> Cl <sub>2</sub> N	3,4-Dichloroaniline	-89.1											
C <sub>6</sub> H <sub>5</sub> F	Fluorobenzene					-150.6		205.9	146.4	-115.9			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p^\circ$ J/mol K
C <sub>6</sub> H <sub>5</sub> I	Iodobenzene					117.2		205.4	158.7	68.5		348.8	120.4
C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	Nitrobenzene					12.5			185.8				
C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	3-Pyridinecarboxylic acid	-344.9								-221.5			
C <sub>6</sub> H <sub>5</sub> NO <sub>3</sub>	2-Nitrophenol	-202.4											
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub>	1 <i>H</i> -Benzotriazole	236.5								335.5			
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O <sub>4</sub>	2,3-Dinitroaniline	-11.7											
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O <sub>4</sub>	2,4-Dinitroaniline	-67.8											
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O <sub>4</sub>	2,5-Dinitroaniline	-44.3											
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O <sub>4</sub>	2,6-Dinitroaniline	-50.6											
C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O <sub>4</sub>	3,5-Dinitroaniline	-38.9											
C <sub>6</sub> H <sub>6</sub>	1,5-Hexadiyne					384.2							
C <sub>6</sub> H <sub>6</sub>	Benzene					49.1	124.5	173.4	136.0	82.9	129.7	269.2	82.4
C <sub>6</sub> H <sub>6</sub> ClN	2-Chloroaniline					-4.6							
C <sub>6</sub> H <sub>6</sub> ClN	3-Chloroaniline					-20.3			198.7				
C <sub>6</sub> H <sub>6</sub> ClN	4-Chloroaniline	-33.3			147.3								
C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	2-Nitroaniline	-26.1			166.0	-9.4				63.8			
C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	3-Nitroaniline	-38.3			158.8	-14.4				58.4			
C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	4-Nitroaniline	-42.0			167.0	-20.7				58.8			
C <sub>6</sub> H <sub>6</sub> O	Phenol	-165.1		144.0	127.4					-96.4			
C <sub>6</sub> H <sub>6</sub> O	2-Vinylfuran					-10.3				27.8			
C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>	<i>p</i> -Hydroquinone	-364.5			136.0					-265.3			
C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>	Pyrocatechol	-354.1								-267.5			
C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>	Resorcinol	-368.0								-274.7			
C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	1,2,3-Benzenetriol	-551.1								-434.2			
C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	1,2,4-Benzenetriol	-563.8								-444.0			
C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	1,3,5-Benzenetriol	-584.6								-452.9			
C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	3,4-Dimethyl-2,5-furandione	-581.4											
C <sub>6</sub> H <sub>6</sub> O <sub>6</sub>	<i>cis</i> -1-Propene-1,2,3-tricarboxylic acid	-1224.4											
C <sub>6</sub> H <sub>6</sub> O <sub>6</sub>	<i>trans</i> -1-Propene-1,2,3-tricarboxylic acid	-1232.7											
C <sub>6</sub> H <sub>6</sub> S	Benzenethiol					63.7		222.8	173.2	111.3			
C <sub>6</sub> H <sub>7</sub> N	Aniline					31.6			191.9	87.5	-7.0	317.9	107.9
C <sub>6</sub> H <sub>7</sub> N	2-Methylpyridine					56.7			158.6	99.2			
C <sub>6</sub> H <sub>7</sub> N	3-Methylpyridine					61.9		216.3	158.7	106.4			
C <sub>6</sub> H <sub>7</sub> N	4-Methylpyridine					59.2		209.1	159.0	103.8			
C <sub>6</sub> H <sub>7</sub> N	1-Cyclopentenecarbonitrile					111.5				156.5			
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>	Adiponitrile					85.1			128.7	149.5			
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>	1,2-Benzenediamine	-0.3											
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>	1,3-Benzenediamine	-7.8		154.5	159.6								
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>	1,4-Benzenediamine	3.0											
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub>	Phenylhydrazine					141.0			217.0	202.9			
C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> S	Bis(2-cyanoethyl) sulfide					96.3							
C <sub>6</sub> H <sub>8</sub> O <sub>4</sub>	Dimethyl maleate								263.2				
C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	<i>L</i> -Ascorbic acid	-1164.6											
C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	Citric acid	-1543.8											
C <sub>6</sub> H <sub>9</sub> Cl <sub>3</sub> O <sub>2</sub>	Butyl trichloroacetate					-545.8				-492.3			
C <sub>6</sub> H <sub>9</sub> Cl <sub>3</sub> O <sub>2</sub>	Isobutyl trichloroacetate					-553.4				-500.2			
C <sub>6</sub> H <sub>9</sub> N	Cyclopentanecarbonitrile					0.7				44.1			
C <sub>6</sub> H <sub>9</sub> N	2,4-Dimethylpyrrole	-422.3											
C <sub>6</sub> H <sub>9</sub> N	2,5-Dimethylpyrrole					-16.7				39.8			
C <sub>6</sub> H <sub>9</sub> NO <sub>3</sub>	Triacetamide					-610.5				-550.1			
C <sub>6</sub> H <sub>9</sub> NO <sub>6</sub>	Nitrilotriacetic acid	-1311.9											
C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>	<i>L</i> -Histidine	-466.7											
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-butenate					-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			

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> 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-chlorobutanoate					-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>2</sub> S <sub>2</sub>	<i>L</i> -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			
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	β- <i>D</i> -Fructose	-1265.6											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	<i>D</i> -Galactose	-1286.3											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	α- <i>D</i> -Glucose	-1273.3											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	<i>D</i> -Mannose	-1263.0											
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	<i>L</i> -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, (±)					-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	<i>N</i> -Butylacetamide					-380.9				-305.9			
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>DL</i> -Leucine	-640.6											



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
$C_6H_{13}NO_2$	<i>D</i> -Leucine	-637.3											
$C_6H_{13}NO_2$	<i>L</i> -Leucine	-637.4			200.1					-486.8			
$C_6H_{13}NO_2$	<i>DL</i> -Isoleucine	-635.3											
$C_6H_{13}NO_2$	<i>L</i> -Isoleucine	-637.8											
$C_6H_{13}NO_2$	<i>L</i> -Norleucine	-639.1											
$C_6H_{13}NO_2$	6-Aminohexanoic acid	-637.3											
$C_6H_{14}$	Hexane					-198.7			195.6	-166.9			
$C_6H_{14}$	2-Methylpentane					-204.6		290.6	193.7	-174.6			
$C_6H_{14}$	3-Methylpentane					-202.4		292.5	190.7	-171.9			
$C_6H_{14}$	2,2-Dimethylbutane					-213.8		272.5	191.9	-185.9			
$C_6H_{14}$	2,3-Dimethylbutane					-207.4		287.8	189.7	-178.1			
$C_6H_{14}N_2$	Azopropane					11.5				51.3			
$C_6H_{14}N_2O_2$	<i>DL</i> -Lysine	-678.7											
$C_6H_{14}N_2O_2$	<i>D</i> -Arginine	-623.5		250.6	232.0								
$C_6H_{14}O$	1-Hexanol					-377.5		287.4	240.4	-315.9			
$C_6H_{14}O$	2-Hexanol					-392.0				-333.5			
$C_6H_{14}O$	3-Hexanol					-392.4			286.2				
$C_6H_{14}O$	2-Methyl-1-pentanol								248.0				
$C_6H_{14}O$	3-Methyl-2-pentanol								275.9				
$C_6H_{14}O$	4-Methyl-2-pentanol					-394.7			273.0				
$C_6H_{14}O$	2-Methyl-3-pentanol					-396.4							
$C_6H_{14}O$	3-Methyl-3-pentanol								293.4				
$C_6H_{14}O$	Dipropyl ether					-328.8		323.9	221.6	-293.0			
$C_6H_{14}O$	Diisopropyl ether					-351.5			216.8	-319.2			
$C_6H_{14}O$	Butyl ethyl ether								159.0				
$C_6H_{14}O$	<i>tert</i> -Butyl ethyl ether									-313.9			
$C_6H_{14}OS$	Dipropyl sulfoxide					-329.4				-254.9			
$C_6H_{14}O_2$	1,2-Hexanediol					-577.1				-490.1			
$C_6H_{14}O_2$	1,6-Hexanediol	-569.9				-548.6				-461.2			
$C_6H_{14}O_2$	2-Methyl-2,4-pentanediol								336.0				
$C_6H_{14}O_2$	Ethylene glycol monobutyl ether								281.0				
$C_6H_{14}O_2$	1,1-Diethoxyethane					-491.4				-453.5			
$C_6H_{14}O_2$	Ethylene glycol diethyl ether					-451.4			259.4	-408.1			
$C_6H_{14}O_3$	Diethylene glycol monoethyl ether								301.0				
$C_6H_{14}O_3$	Diethylene glycol dimethyl ether								274.1				
$C_6H_{14}O_3$	Trimethylolpropane	-750.9											
$C_6H_{14}O_4$	Triethylene glycol					-804.3				-725.0			
$C_6H_{14}O_4S$	Dipropyl sulfate					-859.0				-792.0			
$C_6H_{14}O_6$	Galactitol					-1317.0							
$C_6H_{14}O_6$	<i>D</i> -Mannitol					-1314.5							
$C_6H_{14}S$	1-Hexanethiol					-175.7				-129.9			
$C_6H_{14}S$	2-Methyl-2-pentanethiol					-188.3				-148.3			
$C_6H_{14}S$	2,3-Dimethyl-2-butanethiol					-187.1				-147.9			
$C_6H_{14}S$	Diisopropyl sulfide					-181.6		313.0	232.0	-142.0			
$C_6H_{14}S$	Butyl ethyl sulfide					-172.3				-127.8			
$C_6H_{14}S$	Methyl pentyl sulfide					-167.1				-121.8			
$C_6H_{14}S_2$	Dipropyl disulfide					-171.5				-118.3			
$C_6H_{15}B$	Triethylborane					-194.6	9.4	336.7	241.2	-157.7	16.1	437.8	
$C_6H_{15}N$	Dipropylamine					-156.1				-116.0			
$C_6H_{15}N$	Diisopropylamine					-178.5				-143.8			
$C_6H_{15}N$	Triethylamine					-127.7			219.9	-92.7			
$C_6H_{15}NO$	2-Diethylaminoethanol					-305.9							
$C_6H_{15}NO_3$	Triethanolamine	-664.2			389.0					-558.3			
$C_6H_{16}N_2$	1,6-Hexanediamine	-205.0											
$C_6H_{18}N_3OP$	Hexamethylphosphoric triamide								321.0				
$C_6H_{18}OSi_2$	Hexamethyldisiloxane					-815.0	-541.5	433.8	311.4	-777.7	-534.5	535.0	238.5
$C_6MoO_6$	Molybdenum hexacarbonyl	-982.8	-877.7	325.9	242.3					-912.1	-856.0	490.0	205.0
$C_6N_4$	Tetracyanoethene	623.8								705.0			
$C_7F_8$	Perfluorotoluene					-1311.1		355.5	262.3				
$C_7F_{14}$	Perfluoromethylcyclohexane					-2931.1			353.1	-2897.2			
$C_7F_{16}$	Perfluoroheptane					-3420.0		561.8	419.0	-3383.6			
$C_7H_5F_5$	2,3,4,5,6-Pentafluorotoluene					-883.8		306.4	225.8	-842.7			
$C_7H_4Cl_2O$	3-Chlorobenzoyl chloride					-189.7							
$C_7H_4N_2O_6$	3,5-Dinitrobenzoic acid	-409.8											
$C_7H_5ClO$	Benzoyl chloride					-158.0				-103.2			
$C_7H_5ClO_2$	2-Chlorobenzoic acid	-404.5								-325.0			

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
$C_7H_5ClO_2$	3-Chlorobenzoic acid	-424.3								-342.3			
$C_7H_5ClO_2$	4-Chlorobenzoic acid	-428.9			163.2					-341.0			
$C_7H_5F_3$	(Trifluoromethyl)benzene								188.4				
$C_7H_5N$	Benzonitrile					163.2		209.1	165.2	215.7			
$C_7H_5NO$	Benzoxazole	-24.2								44.8			
$C_7H_5NO_4$	2-Nitrobenzoic acid	-378.8											
$C_7H_5NO_4$	3-Nitrobenzoic acid	-394.7											
$C_7H_5NO_4$	4-Nitrobenzoic acid	-392.2											
$C_7H_5N_3O_6$	2,4,6-Trinitrotoluene	-63.2			243.3								
$C_7H_6N_2$	1 <i>H</i> -Benzimidazole	79.5								181.7			
$C_7H_6N_2$	1 <i>H</i> -Indazole	151.9								243.0			
$C_7H_6N_2O_4$	1-Methyl-2,4-dinitrobenzene	-66.4								33.2			
$C_7H_6O$	Benzaldehyde					-87.0		221.2	172.0	-36.7			
$C_7H_6O_2$	Benzoic acid	-385.2		167.6	146.8					-294.0			
$C_7H_6O_2$	Salicylaldehyde								222.0				
$C_7H_6O_3$	3-(2-Furanyl)-2-propenal	-182.0								-105.9			
$C_7H_6O_3$	2-Hydroxybenzoic acid	-589.9								-494.8			
$C_7H_7Br$	4-Bromotoluene					12.0							
$C_7H_7Cl$	2-Chlorotoluene								166.8				
$C_7H_7Cl$	(Chloromethyl)benzene					-32.5				18.9			
$C_7H_7F$	4-Fluorotoluene					-186.9			171.2	-147.4			
$C_7H_7NO$	Benzamide	-202.6								-100.9			
$C_7H_7NO_2$	Aniline-2-carboxylic acid	-401.1								-296.0			
$C_7H_7NO_2$	Aniline-3-carboxylic acid	-417.3								-283.6			
$C_7H_7NO_2$	Aniline-4-carboxylic acid	-410.0			177.8					-296.7			
$C_7H_7NO_2$	2-Nitrotoluene					-9.7							
$C_7H_7NO_2$	3-Nitrotoluene					-31.5							
$C_7H_7NO_2$	4-Nitrotoluene	-48.1			172.3					31.0			
$C_7H_7NO_2$	(Nitromethyl)benzene					-22.8				30.7			
$C_7H_7NO_2$	Salicylaldoxime	-183.7											
$C_7H_8$	Toluene					12.4			157.3	50.5			
$C_7H_8N_2O$	Phenylurea	-218.6											
$C_7H_8O$	<i>o</i> -Cresol	-204.6		165.4	154.6					-128.6			
$C_7H_8O$	<i>m</i> -Cresol					-194.0		212.6	224.9	-132.3			
$C_7H_8O$	<i>p</i> -Cresol	-199.3		167.3	150.2					-125.4			
$C_7H_8O$	Benzyl alcohol					-160.7		216.7	217.9	-100.4			
$C_7H_8O$	Anisole					-114.8				-67.9			
$C_7H_9N$	Benzylamine					34.2			207.2	94.4			
$C_7H_9N$	2-Methylaniline					-6.3				56.4	167.6	351.0	130.2
$C_7H_9N$	3-Methylaniline					-8.1				54.6	165.4	352.5	125.5
$C_7H_9N$	4-Methylaniline	-23.5								55.3	167.7	347.0	126.2
$C_7H_9N$	<i>N</i> -Methylaniline								207.1				
$C_7H_9N$	1-Cyclohexenecarbonitrile					48.1				101.6			
$C_7H_9N$	2,3-Dimethylpyridine					19.4		243.7	189.5	67.1			
$C_7H_9N$	2,4-Dimethylpyridine					16.1		248.5	184.8	63.6			
$C_7H_9N$	2,5-Dimethylpyridine					18.7		248.8	184.7	66.5			
$C_7H_9N$	2,6-Dimethylpyridine					12.7		244.2	185.2	58.1			
$C_7H_9N$	3,4-Dimethylpyridine					18.3		240.7	191.8	68.8			
$C_7H_9N$	3,5-Dimethylpyridine					22.5		241.7	184.5	72.0			
$C_7H_{10}O_2$	Ethyl 2-pentynoate					-301.8				-250.3			
$C_7H_{10}O_2$	Methyl 2-hexynoate					-242.7							
$C_7H_{11}Cl_3O_2$	Isopentyl trichloroacetate					-580.9				-523.1			
$C_7H_{11}N$	Cyclohexanecarbonitrile					-47.2				4.8			
$C_7H_{12}$	Bicyclo[2.2.1]heptane	-95.1			151.0					-54.8			
$C_7H_{12}$	1-Methylbicyclo(3,1,0)hexane					-33.2				1.7			
$C_7H_{12}$	Methylenecyclohexane					-61.3				-25.2			
$C_7H_{12}$	Vinylcyclopentane					-34.8							
$C_7H_{12}$	1-Ethylcyclopentene					-53.3				-19.8			
$C_7H_{12}O$	2-Methylenecyclohexanol					-277.6							
$C_7H_{12}O_2$	Butyl acrylate					-422.6			251.0	-375.3			
$C_7H_{12}O_4$	Diethyl malonate								285.0				
$C_7H_{13}ClO_2$	Butyl 2-chloropropanoate					-571.7				-517.3			
$C_7H_{13}ClO_2$	Isobutyl 2-chloropropanoate					-603.1				-549.6			
$C_7H_{13}ClO_2$	Butyl 3-chloropropanoate					-557.9				-502.3			
$C_7H_{13}ClO_2$	Isobutyl 3-chloropropanoate					-572.6				-517.3			
$C_7H_{13}ClO_2$	Propyl 2-chlorobutanoate					-630.7				-578.4			

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
$C_7H_{13}N$	Heptanenitrile					-82.8				-31.0			
$C_7H_{14}$	1-Heptene					-97.9		327.6	211.8	-62.3			
$C_7H_{14}$	<i>cis</i> -2-Heptene					-105.1							
$C_7H_{14}$	<i>trans</i> -2-Heptene					-109.5							
$C_7H_{14}$	<i>cis</i> -3-Heptene					-104.3							
$C_7H_{14}$	<i>trans</i> -3-Heptene					-109.3							
$C_7H_{14}$	5-Methyl-1-hexene					-100.0				-65.7			
$C_7H_{14}$	<i>cis</i> -3-Methyl-3-hexene					-115.9				-79.4			
$C_7H_{14}$	<i>trans</i> -3-Methyl-3-hexene					-112.7				-76.8			
$C_7H_{14}$	2,4-Dimethyl-1-pentene					-117.0				-83.8			
$C_7H_{14}$	4,4-Dimethyl-1-pentene					-110.6				-81.6			
$C_7H_{14}$	2,4-Dimethyl-2-pentene					-123.1				-88.7			
$C_7H_{14}$	<i>cis</i> -4,4-Dimethyl-2-pentene					-105.3				-72.6			
$C_7H_{14}$	<i>trans</i> -4,4-Dimethyl-2-pentene					-121.7				-88.8			
$C_7H_{14}$	2-Ethyl-3-methyl-1-butene					-114.1				-79.5			
$C_7H_{14}$	2,3,3-Trimethyl-1-butene					-117.7				-85.5			
$C_7H_{14}$	Cycloheptane					-156.6				-118.1			
$C_7H_{14}$	Methylcyclohexane					-190.1			184.8	-154.7			
$C_7H_{14}$	Ethylcyclopentane					-163.4		279.9		-126.9			
$C_7H_{14}$	1,1-Dimethylcyclopentane					-172.1				-138.2			
$C_7H_{14}$	<i>cis</i> -1,2-Dimethylcyclopentane					-165.3		269.2		-129.5			
$C_7H_{14}$	<i>trans</i> -1,2-Dimethylcyclopentane					-171.2				-136.6			
$C_7H_{14}$	<i>cis</i> -1,3-Dimethylcyclopentane					-170.1				-135.8			
$C_7H_{14}$	<i>trans</i> -1,3-Dimethylcyclopentane					-168.1				-133.6			
$C_7H_{14}$	1,1,2,2-Tetramethylcyclopropane					-119.8							
$C_7H_{14}Br_2$	1,2-Dibromoheptane					-212.3				-157.9			
$C_7H_{14}O$	1-Heptanal					-311.5		335.4	230.1	-263.8			
$C_7H_{14}O$	2-Heptanone								232.6				
$C_7H_{14}O$	3-Heptanone									-297.1			
$C_7H_{14}O$	4-Heptanone									-298.3			
$C_7H_{14}O$	2,2-Dimethyl-3-pentanone					-356.1				-313.6			
$C_7H_{14}O$	2,4-Dimethyl-3-pentanone					-352.9		318.0	233.7	-311.3			
$C_7H_{14}O$	<i>cis</i> -2-Methylcyclohexanol					-390.2				-327.0			
$C_7H_{14}O$	<i>trans</i> -2-Methylcyclohexanol, ( $\pm$ )					-415.7				-352.5			
$C_7H_{14}O$	<i>cis</i> -3-Methylcyclohexanol, ( $\pm$ )					-416.1				-350.9			
$C_7H_{14}O$	<i>trans</i> -3-Methylcyclohexanol, ( $\pm$ )					-394.4				-329.1			
$C_7H_{14}O$	<i>cis</i> -4-Methylcyclohexanol					-413.2				-347.5			
$C_7H_{14}O$	<i>trans</i> -4-Methylcyclohexanol					-433.3				-367.2			
$C_7H_{14}O_2$	Heptanoic acid					-610.2			265.4	-536.2			
$C_7H_{14}O_2$	Pentyl acetate								261.0				
$C_7H_{14}O_2$	Isopentyl acetate								248.5				
$C_7H_{14}O_2$	Ethyl pentanoate					-553.0				-505.9			
$C_7H_{14}O_2$	Ethyl 3-methylbutanoate					-571.0				-527.0			
$C_7H_{14}O_2$	Ethyl 2,2-dimethylpropanoate					-577.2				-536.0			
$C_7H_{14}O_2$	Methyl hexanoate					-540.2				-492.2			
$C_7H_{14}O_6$	$\alpha$ -Methylglucoside	-1233.3											
$C_7H_{15}Br$	1-Bromoheptane					-218.4				-167.8			
$C_7H_{16}$	Heptane					-224.2			224.7	-187.6			
$C_7H_{16}$	2-Methylhexane					-229.5		323.3	222.9	-194.5			
$C_7H_{16}$	3-Methylhexane					-226.4				-191.3			
$C_7H_{16}$	3-Ethylpentane					-224.9		314.5	219.6	-189.5			
$C_7H_{16}$	2,2-Dimethylpentane					-238.3		300.3	221.1	-205.7			
$C_7H_{16}$	2,3-Dimethylpentane					-233.1				-198.7			
$C_7H_{16}$	2,4-Dimethylpentane					-234.6		303.2	224.2	-201.6			
$C_7H_{16}$	3,3-Dimethylpentane					-234.2				-201.0			
$C_7H_{16}$	2,2,3-Trimethylbutane					-236.5		292.2	213.5	-204.4			
$C_7H_{16}O$	1-Heptanol					-403.3			272.1	-336.5			
$C_7H_{16}O$	<i>tert</i> -Butyl isopropyl ether					-392.8				-358.1			
$C_7H_{16}O_2$	1,7-Heptanediol					-574.2							
$C_7H_{16}O_2$	2,2-Diethoxypropane					-538.9				-506.9			
$C_7H_{16}S$	1-Heptanethiol					-200.5				-149.9			
$C_8H_4O_3$	Phthalic anhydride	-460.1		180.0	160.0					-371.4			
$C_8H_5NO_2$	1 <i>H</i> -Indole-2,3-dione	-268.2											
$C_8H_6O_4$	Phthalic acid	-782.0		207.9	188.1								
$C_8H_6O_4$	Isophthalic acid	-803.0								-696.3			
$C_8H_6O_4$	Terephthalic acid	-816.1								-717.9			

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>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			
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			

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
$C_8H_{16}$	<i>cis</i> -1-Ethyl-3-methylcyclopentane					-194.4							
$C_8H_{16}$	<i>trans</i> -1-Ethyl-3-methylcyclopentane					-196.0							
$C_8H_{16}O$	Octanal									-291.9		365.4	
$C_8H_{16}O$	2-Ethylhexanal					-348.5				-299.6			
$C_8H_{16}O$	2-Octanone								273.3				
$C_8H_{16}O$	2,2,4-Trimethyl-3-pentanone					-381.6				-338.3			
$C_8H_{16}O_2$	Octanoic acid					-636.0			297.9	-554.3			
$C_8H_{16}O_2$	2-Ethylhexanoic acid					-635.1				-559.5			
$C_8H_{16}O_2$	Hexyl acetate								282.8				
$C_8H_{16}O_2$	Isobutyl isobutanoate					-587.4				-542.9			
$C_8H_{16}O_2$	Propyl pentanoate					-583.0				-533.6			
$C_8H_{16}O_2$	Isopropyl pentanoate					-592.2				-544.9			
$C_8H_{16}O_2$	Methyl heptanoate					-567.1			285.1	-515.5			
$C_8H_{17}Br$	1-Bromooctane					-245.1				-189.3			
$C_8H_{17}Cl$	1-Chlorooctane					-291.3				-238.9			
$C_8H_{17}NO$	Octanamide	-473.2								-362.7			
$C_8H_{18}$	Octane					-250.1			254.6	-208.5			
$C_8H_{18}$	2-Methylheptane					-255.0		356.4	252.0	-215.3			
$C_8H_{18}$	3-Methylheptane, (S)					-252.3		362.6	250.2	-212.5			
$C_8H_{18}$	4-Methylheptane					-251.6			251.1	-211.9			
$C_8H_{18}$	3-Ethylhexane					-250.4				-210.7			
$C_8H_{18}$	2,2-Dimethylhexane					-261.9				-224.5			
$C_8H_{18}$	2,3-Dimethylhexane					-252.6				-213.8			
$C_8H_{18}$	2,4-Dimethylhexane					-257.0				-219.2			
$C_8H_{18}$	2,5-Dimethylhexane					-260.4			249.2	-222.5			
$C_8H_{18}$	3,3-Dimethylhexane					-257.5			246.6	-219.9			
$C_8H_{18}$	3,4-Dimethylhexane					-251.8				-212.8			
$C_8H_{18}$	3-Ethyl-2-methylpentane					-249.6				-211.0			
$C_8H_{18}$	3-Ethyl-3-methylpentane					-252.8				-214.8			
$C_8H_{18}$	2,2,3-Trimethylpentane					-256.9				-220.0			
$C_8H_{18}$	2,2,4-Trimethylpentane					-259.2			239.1	-224.0			
$C_8H_{18}$	2,3,3-Trimethylpentane					-253.5			245.6	-216.3			
$C_8H_{18}$	2,3,4-Trimethylpentane					-255.0		329.3	247.3	-217.3			
$C_8H_{18}$	2,2,3,3-Tetramethylbutane	-269.0		273.7	239.2					-226.0			
$C_8H_{18}N_2$	Azobutane					-40.1				9.2			
$C_8H_{18}O$	1-Octanol					-426.5			305.2	-355.6			
$C_8H_{18}O$	2-Octanol								330.1				
$C_8H_{18}O$	2-Ethyl-1-hexanol					-432.8		347.0	317.5	-365.3			
$C_8H_{18}O$	Dibutyl ether					-377.9			278.2	-332.8			
$C_8H_{18}O$	Di- <i>sec</i> -butyl ether					-401.5				-360.6			
$C_8H_{18}O$	Di- <i>tert</i> -butyl ether					-399.6			276.1	-362.0			
$C_8H_{18}O$	<i>tert</i> -Butyl isobutyl ether					-409.1				-369.0			
$C_8H_{18}O_2$	1,8-Octanediol	-626.6											
$C_8H_{18}O_2$	2,5-Dimethyl-2,5-hexanediol	-681.7											
$C_8H_{18}O_3$	Diethylene glycol monobutyl ether								354.9				
$C_8H_{18}O_3$	Diethylene glycol diethyl ether								341.4				
$C_8H_{18}O_3S$	Dibutyl sulfite					-693.1				-625.3			
$C_8H_{18}O_5$	Tetraethylene glycol					-981.7			428.8	-883.0			
$C_8H_{18}S$	Dibutyl sulfide					-220.7		405.1	284.3	-167.7			
$C_8H_{18}S$	Di- <i>sec</i> -butyl sulfide					-220.7				-167.7			
$C_8H_{18}S$	Di- <i>tert</i> -butyl sulfide					-232.6				-188.8			
$C_8H_{18}S$	Diisobutyl sulfide					-229.2				-180.5			
$C_8H_{18}S_2$	Dibutyl disulfide					-222.9				-160.6			
$C_8H_{18}S_2$	Di- <i>tert</i> -butyl disulfide					-255.2				-201.0			
$C_8H_{19}N$	Dibutylamine					-206.0			292.9	-156.6			
$C_8H_{19}N$	Diisobutylamine					-218.5				-179.2			
$C_8H_{20}BrN$	Tetraethylammonium bromide	-342.7											
$C_8H_{20}O_4Si$	Ethyl silicate							533.1	364.4				
$C_8H_{20}Pb$	Tetraethyl lead					52.7		464.6	307.4	109.6			
$C_8H_{20}Si$	Tetraethylsilane								298.1				
$C_9H_6N_2O_2$	Toluene-2,4-diisocyanate								287.8				
$C_9H_7N$	Quinoline					141.2				200.5			
$C_9H_7N$	Isoquinoline					144.3		216.0	196.2	204.6			
$C_9H_7NO$	2-Quinolinol	-144.9								-25.5			
$C_9H_7NO$	8-Quinolinol	82.1											
$C_9H_8$	Indene					110.6		215.3	186.9	163.4			

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>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'-Dipyrrrolylmethane	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>	L-Phenylalanine	-466.9		213.6	203.0					-312.9			
C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub>	L-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>	1α,3α,5β-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>	sec-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	N-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							
C <sub>9</sub> H <sub>20</sub>	2,2,4-Trimethylhexane					-282.8							
C <sub>9</sub> H <sub>20</sub>	2,2,5-Trimethylhexane					-293.3							
C <sub>9</sub> H <sub>20</sub>	2,3,3-Trimethylhexane					-281.1							
C <sub>9</sub> H <sub>20</sub>	2,3,5-Trimethylhexane					-284.0				-242.6			
C <sub>9</sub> H <sub>20</sub>	2,4,4-Trimethylhexane					-280.2							
C <sub>9</sub> H <sub>20</sub>	3,3,4-Trimethylhexane					-277.5							
C <sub>9</sub> H <sub>20</sub>	3,3-Diethylpentane					-275.4			278.2	-233.3			
C <sub>9</sub> H <sub>20</sub>	3-Ethyl-2,2-dimethylpentane					-272.7							
C <sub>9</sub> H <sub>20</sub>	3-Ethyl-2,4-dimethylpentane					-269.7							
C <sub>9</sub> H <sub>20</sub>	2,2,3,3-Tetramethylpentane					-278.3			271.5	-237.1			
C <sub>9</sub> H <sub>20</sub>	2,2,3,4-Tetramethylpentane					-277.7				-236.9			
C <sub>9</sub> H <sub>20</sub>	2,2,4,4-Tetramethylpentane					-280.0			266.3	-241.6			
C <sub>9</sub> H <sub>20</sub>	2,3,3,4-Tetramethylpentane					-277.9				-236.1			
C <sub>9</sub> H <sub>20</sub> N <sub>2</sub> O	Tetraethylurea					-380.0				-316.4			
C <sub>9</sub> H <sub>20</sub> O	1-Nonanol					-453.4				-376.5			
C <sub>9</sub> H <sub>20</sub> O <sub>2</sub>	1,9-Nonanediol	-657.6											
C <sub>9</sub> H <sub>21</sub> N	Tripropylamine					-207.1				-161.0			
C <sub>10</sub> H <sub>8</sub> N <sub>2</sub>	2-Quinolinecarbonitrile	246.5											
C <sub>10</sub> H <sub>8</sub> N <sub>2</sub>	3-Quinolinecarbonitrile	242.3											
C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>	1,5-Dinitronaphthalene	29.8											

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
$C_{10}H_6N_2O_4$	1,8-Dinitronaphthalene	39.7											
$C_{10}H_7Cl$	1-Chloronaphthalene					54.6			212.6	119.8			
$C_{10}H_7Cl$	2-Chloronaphthalene	55.4								137.4			
$C_{10}H_7I$	1-Iodonaphthalene					161.5				233.8			
$C_{10}H_7I$	2-Iodonaphthalene	144.3								235.1			
$C_{10}H_7NO_2$	1-Nitronaphthalene	42.6								111.2			
$C_{10}H_8$	Naphthalene	78.5	201.6	167.4	165.7					150.6	224.1	333.1	131.9
$C_{10}H_8$	Azulene	212.3								289.1			
$C_{10}H_8O$	1-Naphthol	-121.5			166.9					-30.4			149.4
$C_{10}H_8O$	2-Naphthol	-124.1		179.0	172.8					-29.9		366.6	147.8
$C_{10}H_9N$	1-Naphthylamine	67.8								132.8			
$C_{10}H_9N$	2-Naphthylamine	60.2								134.3			
$C_{10}H_{10}$	1,2-Dihydronaphthalene					71.6							
$C_{10}H_{10}$	1,4-Dihydronaphthalene					84.2							
$C_{10}H_{10}O$	1-Tetralone	-209.6											
$C_{10}H_{10}O_4$	Dimethyl phthalate								303.1				
$C_{10}H_{10}O_4$	Dimethyl isophthalate	-730.9											
$C_{10}H_{10}O_4$	Dimethyl terephthalate	-732.6			261.1								
$C_{10}H_{12}$	1,2,3,4-Tetrahydronaphthalene					-29.2			217.5	26.0			
$C_{10}H_{14}$	Butylbenzene					-63.2		321.2	243.4	-11.8			
$C_{10}H_{14}$	<i>sec</i> -Butylbenzene, ( $\pm$ )					-66.4				-18.4			
$C_{10}H_{14}$	<i>tert</i> -Butylbenzene					-71.9				-23.0			
$C_{10}H_{14}$	Isobutylbenzene					-69.8				-21.9			
$C_{10}H_{14}$	1-Isopropyl-2-methylbenzene					-73.3							
$C_{10}H_{14}$	1-Isopropyl-3-methylbenzene					-78.6							
$C_{10}H_{14}$	1-Isopropyl-4-methylbenzene					-78.0			236.4				
$C_{10}H_{14}$	<i>o</i> -Diethylbenzene					-68.5							
$C_{10}H_{14}$	<i>m</i> -Diethylbenzene					-73.5							
$C_{10}H_{14}$	<i>p</i> -Diethylbenzene					-72.8							
$C_{10}H_{14}$	3-Ethyl-1,2-dimethylbenzene					-80.5							
$C_{10}H_{14}$	4-Ethyl-1,2-dimethylbenzene					-86.0							
$C_{10}H_{14}$	2-Ethyl-1,3-dimethylbenzene					-80.1							
$C_{10}H_{14}$	2-Ethyl-1,4-dimethylbenzene					-84.8							
$C_{10}H_{14}$	1-Ethyl-2,4-dimethylbenzene					-84.1							
$C_{10}H_{14}$	1-Ethyl-3,5-dimethylbenzene					-87.8							
$C_{10}H_{14}$	1,2,4,5-Tetramethylbenzene	-119.9		245.6	215.1								
$C_{10}H_{14}O$	Thymol	-309.7								-218.5			
$C_{10}H_{16}$	Dipentene					-50.8			249.4	-2.6			
$C_{10}H_{16}$	<i>d</i> -Limonene					-54.5			249.0				
$C_{10}H_{16}$	$\alpha$ -Pinene					-16.4				28.3			
$C_{10}H_{16}$	$\beta$ -Pinene					-7.7				38.7			
$C_{10}H_{16}$	$\alpha$ -Terpinene									-20.6			
$C_{10}H_{16}$	$\beta$ -Myrcene					14.5							
$C_{10}H_{16}$	<i>cis</i> , <i>cis</i> -2,6-Dimethyl-2,4,6-octatriene					-24.0							
$C_{10}H_{16}N_2O_8$	Ethylenediaminetetraacetic acid	-1759.5											
$C_{10}H_{16}O$	Camphor, ( $\pm$ )	-319.4			271.2					-267.5			
$C_{10}H_{18}$	1,1'-Bicyclopentyl					-178.9							
$C_{10}H_{18}$	<i>cis</i> -Decahydronaphthalene					-219.4		265.0	232.0	-169.2			
$C_{10}H_{18}$	<i>trans</i> -Decahydronaphthalene					-230.6		264.9	228.5	-182.1			
$C_{10}H_{18}O_4$	Sebacic acid	-1082.6								-921.9			
$C_{10}H_{19}N$	Decanenitrile					-158.4				-91.5			
$C_{10}H_{20}$	1-Decene					-173.8		425.0	300.8	-123.3			
$C_{10}H_{20}$	<i>cis</i> -1,2-Di- <i>tert</i> -butylethene					-163.6							
$C_{10}H_{20}$	Butylcyclohexane					-263.1		345.0	271.0	-213.7			
$C_{10}H_{20}O_2$	Decanoic acid	-713.7				-684.3				-594.9			
$C_{10}H_{20}O_2$	Methyl nonanoate					-616.2				-554.2			
$C_{10}H_{21}NO_2$	1-Nitrodecane					-351.5							
$C_{10}H_{22}$	Decane					-300.9			314.4	-249.5			
$C_{10}H_{22}$	2-Methylnonane					-309.8		420.1	313.3	-260.2			
$C_{10}H_{22}$	5-Methylnonane					-307.9		423.8	314.4	-258.6			
$C_{10}H_{22}O$	1-Decanol					-478.1			370.6	-396.6			
$C_{10}H_{22}O$	Dipentyl ether								250.0				
$C_{10}H_{22}O$	Diisopentyl ether								379.0				
$C_{10}H_{22}O_2$	1,10-Decanediol	-678.9											
$C_{10}H_{22}O_2$	Ethylene glycol dibutyl ether								350.0				
$C_{10}H_{22}S$	1-Decanethiol	-309.9				-276.5		476.1	350.4	-211.5			



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
$C_{10}H_{22}S$	Dipentyl sulfide					-266.4				-204.9			
$C_{10}H_{22}S$	Diisopentyl sulfide					-281.8				-221.5			
$C_{10}H_{23}N$	Octyldimethylamine					-232.8							
$C_{11}H_8O_2$	1-Naphthalenecarboxylic acid	-333.5								-223.1			
$C_{11}H_8O_2$	2-Naphthalenecarboxylic acid	-346.1								-232.5			
$C_{11}H_{10}$	1-Methylnaphthalene					56.3		254.8	224.4				
$C_{11}H_{10}$	2-Methylnaphthalene	44.9		220.0	196.0					106.7			
$C_{11}H_{12}N_2O_2$	L-Tryptophan	-415.3		251.0	238.1								
$C_{11}H_{14}$	1,1-Dimethylindan					-53.6				-1.6			
$C_{11}H_{16}$	1- <i>tert</i> -Butyl-3-methylbenzene					-109.7							
$C_{11}H_{16}$	1- <i>tert</i> -Butyl-4-methylbenzene					-109.7				-57.0			
$C_{11}H_{16}$	Pentamethylbenzene	-144.6								-67.2			
$C_{11}H_{20}$	Spiro[5.5]undecane					-244.5				-188.3			
$C_{11}H_{22}$	1-Undecene								344.9				
$C_{11}H_{22}O_2$	Methyl decanoate					-640.5				-573.8			
$C_{11}H_{24}$	Undecane					-327.2			344.9	-270.8			
$C_{11}H_{24}O$	1-Undecanol					-504.8							
$C_{12}F_7N$	Tris(perfluorobutyl)amine								418.4				
$C_{12}H_8$	Acenaphthylene	186.7			166.4					259.7			
$C_{12}H_{10}N_2$	Phenazine	237.0								328.8			
$C_{12}H_8O$	Dibenzofuran	-5.3								83.4			
$C_{12}H_8S$	Dibenzothiophene	120.0								205.1			
$C_{12}H_8S$	Thianthrene	182.0								286.0			
$C_{12}H_9N$	Carbazole	101.7								200.7			
$C_{12}H_{10}$	Acenaphthene	70.3		188.9	190.4					156.0			
$C_{12}H_{10}$	Biphenyl	99.4		209.4	198.4					181.4			
$C_{12}H_{10}N_2O$	<i>trans</i> -Azoxybenzene	243.4								342.0			
$C_{12}H_{10}N_2O$	<i>N</i> -Nitrosodiphenylamine	227.2											
$C_{12}H_{10}O$	Diphenyl ether	-32.1		233.9	216.6	-14.9				52.0			
$C_{12}H_{10}O_2$	1-Naphthaleneacetic acid	-359.2											
$C_{12}H_{10}O_2$	2-Naphthaleneacetic acid	-371.9											
$C_{12}H_{11}N$	Diphenylamine	130.2								219.3			
$C_{12}H_{11}N$	2-Aminobiphenyl	93.8								184.4			
$C_{12}H_{11}N$	4-Aminobiphenyl	81.0											
$C_{12}H_{12}N_2$	<i>p</i> -Benzidine	70.7											
$C_{12}H_{14}O_4$	Diethyl phthalate					-776.6		425.1	366.1	-688.4			
$C_{12}H_{16}$	Cyclohexylbenzene					-76.6				-16.7			
$C_{12}H_{17}NO_4$	Diethyl 3,5-dimethylpyrrole-2,4-dicarboxylate	-916.7											
$C_{12}H_{18}$	3,9-Dodecadiyne					197.8							
$C_{12}H_{18}$	5,7-Dodecadiyne					181.5							
$C_{12}H_{18}$	1- <i>tert</i> -Butyl-3,5-dimethylbenzene					-146.5							
$C_{12}H_{18}$	Hexamethylbenzene	-162.4		306.3	245.6					-77.4			
$C_{12}H_{22}$	Cyclohexylcyclohexane					-273.7				-215.7			
$C_{12}H_{22}O_4$	Dodecanedioic acid	-1130.0								-976.9			
$C_{12}H_{22}O_{11}$	Sucrose	-2226.1											
$C_{12}H_{22}O_{11}$	$\beta$ -D-Lactose	-2236.7											
$C_{12}H_{24}$	1-Dodecene					-226.2		484.8	360.7	-165.4			
$C_{12}H_{24}O_2$	Dodecanoic acid	-774.6			404.3	-737.9				-642.0			
$C_{12}H_{24}O_2$	Methyl undecanoate					-665.2				-593.8			
$C_{12}H_{24}O_{12}$	$\alpha$ -Lactose monohydrate	-2484.1											
$C_{12}H_{25}Br$	1-Bromododecane					-344.7				-269.9			
$C_{12}H_{25}Cl$	1-Chlorododecane					-392.3				-321.1			
$C_{12}H_{26}$	Dodecane					-350.9			375.8	-289.4			
$C_{12}H_{26}O$	1-Dodecanol					-528.5			438.1	-436.6			
$C_{12}H_{26}O_3$	Diethylene glycol dibutyl ether								452.0				
$C_{12}H_{27}N$	Tributylamine					-281.6							
$C_{12}H_{27}O_4P$	Tributyl phosphate								379.4				
$C_{13}H_8O_2$	Xanthone	-191.5											
$C_{13}H_9N$	Acridine	179.4								273.9			
$C_{13}H_9N$	Phenanthridine	141.9								240.5			
$C_{13}H_9N$	Benzo[f]quinoline	150.6								233.7			
$C_{13}H_{10}$	9 <i>H</i> -Fluorene	89.9		207.3	203.1					175.0			173.1
$C_{13}H_{10}N_2$	9-Acridinamine	159.2											
$C_{13}H_{10}O$	Benzophenone	-34.5			224.8					54.9			
$C_{13}H_{11}N$	9-Methyl-9 <i>H</i> -carbazole	105.5								201.0			
$C_{13}H_{12}$	Diphenylmethane	71.5		239.3		89.7				139.0			

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>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>8</sub> O <sub>2</sub>	9,10-Anthracenedione	-188.5								-75.7			
C <sub>14</sub> H <sub>8</sub> O <sub>2</sub>	9,10-Phenanthrenedione	-154.7								-46.6			
C <sub>14</sub> H <sub>8</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>24</sub> N <sub>2</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>	α-D-Glucose pentaacetate	-2249.4											
C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>	β-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>34</sub> Br	1-Bromohexadecane					-444.5				-350.2			
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>36</sub> IN	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[a]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>	o-Terphenyl			298.8	274.8			337.1	369.1				
C <sub>18</sub> H <sub>14</sub>	p-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-tert-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>38</sub> N	Trihexylamine					-433.0							
C <sub>19</sub> H <sub>16</sub> O	Triphenylmethanol	-2.5											
C <sub>19</sub> H <sub>30</sub> O <sub>2</sub>	Methyl oleate					-734.5				-649.9			
C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	Methyl trans-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[a]pyrene												254

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>20</sub> H <sub>14</sub> O <sub>4</sub>	Diphenyl phthalate	-489.2											
C <sub>20</sub> H <sub>38</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>21</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[a,h]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