

## 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
Substances not containing carbon:													
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	24.4					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
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	-15.5											
AlI	Aluminum monoiodide									65.5			36.0
AlI <sub>3</sub>	Aluminum iodide	-313.8	-300.8	159.0	98.7					-207.5			
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											

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		$\Delta_f H^\circ$ 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
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>3</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	0.0		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 ( $\beta$ -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



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		$\Delta_f H^\circ$ 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
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	90.9
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>2</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								
BrKO <sub>3</sub>	Potassium bromate	-360.2	-271.2	149.2	105.2								
BrKO <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										

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		$\Delta_f H^\circ$ 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
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
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>5</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	20.8
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>8</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	20.8
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 ( $\gamma$ , 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>3</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>2</sub> N	Ammonium chloride	-314.4	-202.9	94.6	84.1								
ClH <sub>2</sub> NO <sub>4</sub>	Ammonium perchlorate	-295.3	-88.8	186.2									
ClH <sub>2</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								
CLi	Lithium chloride	-408.6	-384.4	59.3	48.0								
CLiO <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									
ClO <sub>2</sub>	Chlorine dioxide									102.5	120.5	256.8	42.0
ClO <sub>2</sub>	Chlorine superoxide (ClOO)									89.1	105.0	263.7	46.0
ClO <sub>2</sub> Rb	Rubidium perchlorate	-437.2	-306.9	161.1									
ClRb	Rubidium chloride	-435.4	-407.8	95.9	52.4								
ClSi	Chlorosilylydyne									189.9			36.9
ClTI	Thallium(I) chloride	-204.1	-184.9	111.3	50.9					-67.8			
Cl <sub>2</sub>	Chlorine									0.0		223.1	33.9
Cl <sub>2</sub> Co	Cobalt(II) chloride	-312.5	-269.8	109.2	78.5								
Cl <sub>2</sub> Cr	Chromium(II) chloride	-395.4	-356.0	115.3	71.2								
Cl <sub>2</sub> CrO <sub>2</sub>	Chromyl chloride						-579.5	-510.8	221.8	-538.1	-501.6	329.8	84.5
Cl <sub>2</sub> Cu	Copper(II) chloride	-220.1	-175.7	108.1	71.9								
Cl <sub>2</sub> Fe	Iron(II) chloride	-341.8	-302.3	118.0	76.7								
Cl <sub>2</sub> H <sub>2</sub> Si	Dichlorosilane											285.7	60.5
Cl <sub>2</sub> Hg	Mercury(II) chloride	-224.3	-178.6	146.0									
Cl <sub>2</sub> Hg <sub>2</sub>	Mercury(I) chloride	-265.4	-210.7	191.6									
Cl <sub>2</sub> Mg	Magnesium chloride	-641.3	-591.8	89.6	71.4								
Cl <sub>2</sub> Mn	Manganese(II) chloride	-481.3	-440.5	118.2	72.9								
Cl <sub>2</sub> Ni	Nickel(II) chloride	-305.3	-259.0	97.7	71.7								
Cl <sub>2</sub> O	Chlorine monoxide									80.3	97.9	266.2	45.4
Cl <sub>2</sub> OS	Thionyl chloride						-245.6		121.0	-212.5	-198.3	309.8	66.5
Cl <sub>2</sub> O <sub>2</sub> S	Sulfuryl chloride						-394.1		134.0	-364.0	-320.0	311.9	77.0



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
Cl <sub>2</sub> O <sub>2</sub> U	Uranyl chloride	-1243.9	-1146.4	150.5	107.9								
Cl <sub>2</sub> Pb	Lead(II) chloride	-359.4	-314.1	136.0									
Cl <sub>2</sub> Pt	Platinum(II) chloride	-123.4											
Cl <sub>2</sub> S	Sulfur dichloride					-50.0							
Cl <sub>2</sub> S <sub>2</sub>	Sulfur chloride					-59.4							
Cl <sub>2</sub> Sn	Tin(II) chloride	-325.1											
Cl <sub>2</sub> Sr	Strontium chloride	-828.9	-781.1	114.9	75.6								
Cl <sub>2</sub> Ti	Titanium(II) chloride	-513.8	-464.4	87.4	69.8								
Cl <sub>2</sub> Zn	Zinc chloride	-415.1	-369.4	111.5	71.3					-266.1			
Cl <sub>2</sub> Zr	Zirconium(II) chloride	-502.0											
Cl <sub>3</sub> Cr	Chromium(III) chloride	-556.5	-486.1	123.0	91.8								
Cl <sub>3</sub> Dy	Dysprosium(III) chloride	-1000.0											
Cl <sub>3</sub> Er	Erbium chloride	-998.7			100.0								
Cl <sub>3</sub> Eu	Europium(III) chloride	-936.0											
Cl <sub>3</sub> Fe	Iron(III) chloride	-399.5	-334.0	142.3	96.7								
Cl <sub>3</sub> Ga	Gallium(III) chloride	-524.7	-454.8	142.0									
Cl <sub>3</sub> Gd	Gadolinium(III) chloride	-1008.0			88.0								
Cl <sub>3</sub> HSi	Trichlorosilane					-539.3	-482.5	227.6		-513.0	-482.0	313.9	75.8
Cl <sub>3</sub> Ho	Holmium chloride	-1005.4			88.0								
Cl <sub>3</sub> In	Indium(III) chloride	-537.2								-374.0			
Cl <sub>3</sub> Ir	Iridium(III) chloride	-245.6											
Cl <sub>3</sub> La	Lanthanum chloride	-1072.2			108.8								
Cl <sub>3</sub> Lu	Lutetium chloride	-945.6								-649.0			
Cl <sub>3</sub> N	Nitrogen trichloride					230.0							
Cl <sub>3</sub> Nd	Neodymium chloride	-1041.0			113.0								
Cl <sub>3</sub> OP	Phosphoric trichloride					-597.1	-520.8	222.5	138.8	-558.5	-512.9	325.5	84.9
Cl <sub>3</sub> OV	Vanadyl trichloride					-734.7	-668.5	244.3		-695.6	-659.3	344.3	89.9
Cl <sub>3</sub> Os	Osmium(III) chloride	-190.4											
Cl <sub>3</sub> P	Phosphorus(III) chloride					-319.7	-272.3	217.1		-287.0	-267.8	311.8	71.8
Cl <sub>3</sub> Pr	Praseodymium chloride	-1056.9			100.0								
Cl <sub>3</sub> Pt	Platinum(III) chloride	-182.0											
Cl <sub>3</sub> Re	Rhenium(III) chloride	-264.0	-188.0	123.8	92.4								
Cl <sub>3</sub> Rh	Rhodium(III) chloride	-299.2											
Cl <sub>3</sub> Ru	Ruthenium(III) chloride	-205.0											
Cl <sub>3</sub> Sb	Antimony(III) chloride	-382.2	-323.7	184.1	107.9								
Cl <sub>3</sub> Sc	Scandium chloride	-925.1											
Cl <sub>3</sub> Sm	Samarium(III) chloride	-1025.9											
Cl <sub>3</sub> Tb	Terbium chloride	-997.0											
Cl <sub>3</sub> Ti	Titanium(III) chloride	-720.9	-653.5	139.7	97.2								
Cl <sub>3</sub> Tl	Thallium(III) chloride	-315.1											
Cl <sub>3</sub> Tm	Thulium chloride	-986.6											
Cl <sub>3</sub> U	Uranium(III) chloride	-866.5	-799.1	159.0	102.5								
Cl <sub>3</sub> V	Vanadium(III) chloride	-580.7	-511.2	131.0	93.2								



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
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
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
FI <sub>n</sub>	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	Fluorosilylydyne					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>	<i>cis</i> -Difluorodiazine					69.5			
F <sub>2</sub> N <sub>2</sub>	<i>trans</i> -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
F <sub>4</sub> Ge	Germanium(IV) fluoride					-1190.2	-1150.0	301.9	

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
F <sub>4</sub> Hf	Hafnium fluoride	-1930.5	-1830.4	113.0						-1669.8			
F <sub>4</sub> N <sub>2</sub>	Tetrafluorohydrazine									-8.4	79.9	301.2	79.2
F <sub>4</sub> Pb	Lead(IV) fluoride	-941.8											
F <sub>4</sub> S	Sulfur tetrafluoride									-763.2	-722.0	299.6	77.6
F <sub>4</sub> Si	Tetrafluorosilane									-1615.0	-1572.8	282.8	73.6
F <sub>4</sub> Th	Thorium(IV) fluoride	-2097.8	-2003.4	142.0	110.7					-1759.0	-1724.0	341.7	93.0
F <sub>4</sub> U	Uranium(IV) fluoride	-1914.2	-1823.3	151.7	116.0					-1598.7	-1572.7	368.0	91.2
F <sub>4</sub> V	Vanadium(IV) fluoride	-1403.3											
F <sub>4</sub> Xe	Xenon tetrafluoride	-261.5											
F <sub>4</sub> Zr	Zirconium(IV) fluoride	-1911.3	-1809.9	104.6	103.7								
F <sub>5</sub> I	Iodine pentafluoride					-864.8				-822.5	-751.7	327.7	99.2
F <sub>5</sub> Nb	Niobium(V) fluoride	-1813.8	-1699.0	160.2	134.7					-1739.7	-1673.6	321.9	97.1
F <sub>5</sub> P	Phosphorus(V) fluoride									-1594.4	-1520.7	300.8	84.8
F <sub>5</sub> Ta	Tantalum(V) fluoride	-1903.6											
F <sub>5</sub> V	Vanadium(V) fluoride					-1480.3	-1373.1	175.7		-1433.9	-1369.8	320.9	98.6
F <sub>6</sub> H <sub>8</sub> N <sub>2</sub> Si	Ammonium hexafluorosilicate	-2681.7	-2365.3	280.2	228.1								
F <sub>6</sub> Ir	Iridium(VI) fluoride	-579.7	-461.6	247.7						-544.0	-460.0	357.8	121.1
F <sub>6</sub> K <sub>2</sub> Si	Potassium hexafluorosilicate	-2956.0	-2798.6	226.0									
F <sub>6</sub> Mo	Molybdenum(VI) fluoride					-1585.5	-1473.0	259.7	169.8	-1557.7	-1472.2	350.5	120.6
F <sub>6</sub> Na <sub>2</sub> Si	Sodium hexafluorosilicate	-2909.6	-2754.2	207.1	187.1								
F <sub>6</sub> Os	Osmium(VI) fluoride			246.0								358.1	120.8
F <sub>6</sub> Pt	Platinum(VI) fluoride			235.6								348.3	122.8
F <sub>6</sub> S	Sulfur hexafluoride									-1220.5	-1116.5	291.5	97.0
F <sub>6</sub> Se	Selenium hexafluoride									-1117.0	-1017.0	313.9	110.5
F <sub>6</sub> Si <sub>2</sub>	Hexafluorodisilane	-2427.0	-2299.7	219.1	129.5					-2383.3	-2307.3	391.0	129.9
F <sub>6</sub> Te	Tellurium hexafluoride									-1318.0			
F <sub>6</sub> U	Uranium(VI) fluoride	-2197.0	-2068.5	227.6	166.8					-2147.4	-2063.7	377.9	129.6
F <sub>6</sub> W	Tungsten(VI) fluoride					-1747.7	-1631.4	251.5		-1721.7	-1632.1	341.1	119.0
Fe	Iron	0.0		27.3	25.1					416.3	370.7	180.5	25.7
FeI <sub>2</sub>	Iron(II) iodide	-113.0											
FeI <sub>3</sub>	Iron(III) iodide									71.0			
FeMoO <sub>4</sub>	Iron(II) molybdate	-1075.0	-975.0	129.3	118.5								
FeO	Iron(II) oxide	-272.0											
FeO <sub>4</sub> S	Iron(II) sulfate	-928.4	-820.8	107.5	100.6								
FeO <sub>4</sub> W	Iron(II) tungstate	-1155.0	-1054.0	131.8	114.6								
FeS	Iron(II) sulfide	-100.0	-100.4	60.3	50.5								
FeS <sub>2</sub>	Iron disulfide	-178.2	-166.9	52.9	62.2								
Fe <sub>2</sub> O <sub>3</sub>	Iron(III) oxide	-824.2	-742.2	87.4	103.9								
Fe <sub>2</sub> O <sub>4</sub> Si	Iron(II) orthosilicate	-1479.9	-1379.0	145.2	132.9								
Fe <sub>3</sub> O <sub>4</sub>	Iron(II,III) oxide	-1118.4	-1015.4	146.4	143.4								
Fm	Fermium	0.0											
Fr	Francium	0.0		95.4									
Ga	Gallium	0.0	0.0	40.8	26.1	5.6				272.0	233.7	169.0	25.3

GaH <sub>3</sub> O <sub>3</sub>	Gallium(III) hydroxide	-964.4	-831.3	100.0					
Gal <sub>3</sub>	Gallium(III) iodide	-238.9		205.0	100.0				
GaN	Gallium nitride	-110.5							
GaO	Gallium monoxide					279.5	253.5	231.1	32.1
GaP	Gallium phosphide	-88.0							
GaSb	Gallium antimonide	-41.8	-38.9	76.1	48.5				
Ga <sub>2</sub>	Digallium					438.5			
Ga <sub>2</sub> O	Gallium suboxide	-356.0							
Ga <sub>2</sub> O <sub>3</sub>	Gallium(III) oxide	-1089.1	-998.3	85.0	92.1				
Gd	Gadolinium	0.0		68.1	37.0	397.5	359.8	194.3	27.5
Gd <sub>2</sub> O <sub>3</sub>	Gadolinium(III) oxide	-1819.6			106.7				
Ge	Germanium	0.0		31.1	23.3	372.0	331.2	167.9	30.7
GeH <sub>4</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					162.3			
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>2</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				
HN	Imidogen					-229.0	-234.2	214.4	46.0
HNO <sub>2</sub>	Nitrous acid					351.5	345.6	181.2	29.2
HNO <sub>3</sub>	Nitric acid					-79.5	-46.0	254.1	45.6
HN <sub>3</sub>	Hydrazoic acid					-174.1	-80.7	155.6	109.9
						264.0	327.3	140.6	
HNa	Sodium hydride	-56.3	-33.5	40.0	36.4				
HNaO	Sodium hydroxide	-425.8	-379.7	64.4	59.5				
HNaO <sub>2</sub> S	Sodium hydrogen sulfate	-1125.5	-992.8	113.0		-191.0	-193.9	229.0	48.0
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>2</sub> P	Metaphosphoric acid	-948.5							
HO <sub>2</sub> RbS	Rubidium hydrogen sulfate	-1159.0							
HO <sub>2</sub> Re	Perrhenic acid	-762.3	-656.4	158.2					

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
HRb	Rubidium hydride	-52.3											
HS	Mercapto									142.7	113.3	195.7	32.3
HSi	Silyliidyne									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>3</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> Si	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											
H <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	Ammonium nitrate	-365.6	-183.9	151.1	139.3								

H <sub>3</sub> N <sub>3</sub>	Ammonium azide	115.5	274.2	112.5								
H <sub>2</sub> O <sub>2</sub> Si	Orthosilicic acid	-1481.1	-1332.9	192.0								
H <sub>4</sub> O <sub>7</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>3</sub> NO	Ammonium hydroxide					-361.2	-254.0	165.6	154.9			
H <sub>3</sub> NO <sub>3</sub> S	Ammonium hydrogen sulfite	-768.6										
H <sub>3</sub> NO <sub>3</sub> S	Ammonium hydrogen sulfate	-1027.0										
H <sub>2</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>3</sub> Si <sub>3</sub>	Trisilane					92.5			120.9			
H <sub>3</sub> N <sub>2</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>2</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	



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 <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			
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>3</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>3</sub> Si	Lithium metasilicate	-1648.1	-1557.2	79.8	99.1				
Li <sub>2</sub> O <sub>3</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>3</sub> S	Magnesium sulfate	-1284.9	-1170.6	91.6	96.5				
MgO <sub>3</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>3</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 (α 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>3</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>2</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				
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				

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
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>3</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 ( $\alpha$ -quartz)	-910.7	-856.3	41.5	44.4			-322.0				
O <sub>2</sub> Sn	Tin(IV) oxide	-577.6	-515.8	49.0	52.6							
O <sub>2</sub> Te	Tellurium dioxide	-322.6	-270.3	79.5								
O <sub>2</sub> Th	Thorium(IV) oxide	-1226.4	-1169.2	65.2	61.8							
O <sub>2</sub> Ti	Titanium(IV) oxide	-944.0	-888.8	50.6	55.0							
O <sub>2</sub> U	Uranium(IV) oxide	-1085.0	-1031.8	77.0	63.6			-465.7	-471.5	274.6	51.4	
O <sub>2</sub> W	Tungsten(IV) oxide	-589.7	-533.9	50.5	56.1							
O <sub>2</sub> Zr	Zirconium(IV) oxide	-1100.6	-1042.8	50.4	56.2							
O <sub>3</sub>	Ozone					142.7	163.2	238.9	39.2			
O <sub>3</sub> PbS	Lead(II) sulfite	-669.9										
O <sub>3</sub> PbSi	Lead(II) metasilicate	-1145.7	-1062.1	109.6	90.0							
O <sub>3</sub> 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								

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>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,VI) oxide	-3427.1	-3242.9	250.5	215.5								
O <sub>8</sub> S <sub>2</sub> Zr	Zirconium(IV) sulfate	-2217.1			172.0								
O <sub>8</sub> U <sub>3</sub>	Uranium(V,VI) oxide	-3574.8	-3369.5	282.6	238.4								
O <sub>8</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
PtS	Platinum(II) sulfide	-81.6	-76.1	55.1	43.4								
PtS <sub>2</sub>	Platinum(IV) sulfide	-108.8	-99.6	74.7	65.9								
Pu	Plutonium	0.0											
Ra	Radium	0.0		71.0						159.0	130.0	176.5	20.8

Rb	Rubidium	0.0		76.8	31.1		80.9	53.1	170.1	20.8
Re	Rhenium	0.0		36.9	25.5		769.9	724.6	188.9	20.8
Rh	Rhodium	0.0		31.5	25.0		556.9	510.8	185.8	21.0
Rn	Radon						0.0		176.2	20.8
Ru	Ruthenium	0.0		28.5	24.1		642.7	595.8	186.5	21.5
S	Sulfur (rhombic)	0.0		32.1	22.6		277.2	236.7	167.8	23.7
S	Sulfur (monoclinic)	0.3								
SSi	Silicon monosulfide						112.5	60.9	223.7	32.3
SSn	Tin(II) sulfide	-100.0	-98.3	77.0	49.3					
SSr	Strontium sulfide	-472.4	-467.8	68.2	48.7					
STl <sub>2</sub>	Thallium(I) sulfide	-97.1	-93.7	151.0						
SZn	Zinc sulfide (wurtzite)	-192.6								
SZn	Zinc sulfide (sphalerite)	-206.0	-201.3	57.7	46.0					
S <sub>2</sub>	Disulfur						128.6	79.7	228.2	32.5
Sb	Antimony	0.0		45.7	25.2		262.3	222.1	180.3	20.8
Sb <sub>2</sub>	Diantimony						235.6	187.0	254.9	36.4
Sc	Scandium	0.0		34.6	25.5		377.8	336.0	174.8	22.1
Se	Selenium (gray)	0.0		42.4	25.4		227.1	187.0	176.7	20.8
Se	Selenium ( $\alpha$ form)	6.7					227.1			
Se	Selenium (vitreous)	5.0					227.1			
SeSr	Strontium selenide	-385.8								
SeTl <sub>2</sub>	Thallium(I) selenide	-59.0	-59.0	172.0						
SeZn	Zinc selenide	-163.0	-163.0	84.0						
Se <sub>2</sub>	Diselenium						146.0	96.2	252.0	35.4
Si	Silicon	0.0		18.8	20.0		450.0	405.5	168.0	22.3
Si <sub>2</sub>	Disilicon						594.0	536.0	229.9	34.4
Sm	Samarium	0.0		69.6	29.5		206.7	172.8	183.0	30.4
Sn	Tin (white)	0.0		51.2	27.0		301.2	266.2	168.5	21.3
Sn	Tin (gray)	-2.1	0.1	44.1	25.8					
Sr	Strontium	0.0		55.0	26.8		164.4	130.9	164.6	20.8
Ta	Tantalum	0.0		41.5	25.4		782.0	739.3	185.2	20.9
Tb	Terbium	0.0		73.2	28.9		388.7	349.7	203.6	24.6
Tc	Technetium	0.0					678.0		181.1	20.8
Te	Tellurium	0.0		49.7	25.7		196.7	157.1	182.7	20.8
Te <sub>2</sub>	Ditellurium						168.2	118.0	268.1	36.7
Th	Thorium	0.0		51.8	27.3		602.0	560.7	190.2	20.8
Ti	Titanium	0.0		30.7	25.0		473.0	428.4	180.3	24.4
Tl	Thallium	0.0		64.2	26.3		182.2	147.4	181.0	20.8
Tm	Thulium	0.0		74.0	27.0		232.2	197.5	190.1	20.8
U	Uranium	0.0		50.2	27.7		533.0	488.4	199.8	23.7
V	Vanadium	0.0		28.9	24.9		514.2	754.4	182.3	26.0
W	Tungsten	0.0		32.6	24.3		849.4	807.1	174.0	21.3
Xe	Xenon						0.0		169.7	20.8
Y	Yttrium	0.0		44.4	26.5		421.3	381.1	179.5	25.9
Yb	Ytterbium	0.0		59.9	26.7		152.3	118.4	173.1	20.8
Zn	Zinc	0.0		41.6	25.4		130.4	94.8	161.0	20.8
Zr	Zirconium	0.0		39.0	25.4		608.8	566.5	181.4	26.7

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
Substances containing carbon:													
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
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	Methyldiyne											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
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>3</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



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> 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>4</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>3</sub> S	Methanethiol					-46.7	-7.7	169.2	90.5	-22.9	-9.3	255.2	50.3
CH <sub>3</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>3</sub> S	Hydrazinecarbothioamide	24.7											
CH <sub>5</sub> N <sub>4</sub> O <sub>2</sub>	3-Amino-1-nitroguanidine	22.1											
CH <sub>6</sub> ClN	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(I) carbonate	-553.5	-468.1	180.0									
ClN	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>6</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									234.0	184.0	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>2</sub> O <sub>2</sub>	Oxalyl chloride					-367.6			-335.8			
C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub>	1,1,2-Trichloro-1,2,2-trifluoroethane					-745.0		170.1	-716.8			
C <sub>2</sub> Cl <sub>3</sub> N	Trichloroacetonitrile										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	Trifluoroacetonitrile								-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

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>2</sub> Br <sub>2</sub> Cl <sub>2</sub>	1,2-Dibromo-1,2-dichloroethane									-36.9			
C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>	1,1,2,2-Tetrabromoethane								165.7				
C <sub>2</sub> H <sub>2</sub> ClF <sub>3</sub>	2-Chloro-1,1,1-trifluoroethane											326.5	89.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	1,1-Dichloroethene					-23.9	24.1	201.5	111.3	2.8	25.4	289.0	67.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	<i>cis</i> -1,2-Dichloroethene					-26.4		198.4	116.4	4.6		289.6	65.1
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	<i>trans</i> -1,2-Dichloroethene					-24.3	27.3	195.9	116.8	5.0	28.6	290.0	66.7
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O	Chloroacetyl chloride					-283.7				-244.8			
C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O <sub>2</sub>	Dichloroacetic acid					-496.3							
C <sub>2</sub> H <sub>2</sub> Cl <sub>3</sub> NO	2,2,2-Trichloroacetamide	-358.0											
C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,1,2-Tetrachloroethane											356.0	102.7
C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,2,2-Tetrachloroethane					-195.0		246.9	162.3	-149.2		362.8	100.8
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	1,1-Difluoroethene									-335.0		266.2	60.1
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	<i>cis</i> -1,2-Difluoroethene											268.3	58.2
C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> I	1,1,1-Trifluoro-2-iodoethane										-644.5		
C <sub>2</sub> H <sub>2</sub> I <sub>2</sub>	<i>cis</i> -1,2-Diiodoethene										-207.4		
C <sub>2</sub> H <sub>2</sub> O	Ketene					-67.9				-47.5	-48.3	247.6	51.8
C <sub>2</sub> H <sub>2</sub> O <sub>2</sub>	Glyoxal									-212.0	-189.7	272.5	60.6
C <sub>2</sub> H <sub>2</sub> O <sub>4</sub>	Oxalic acid	-829.9		109.8	91.0					-731.8	-662.7	320.6	86.2
C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> Sr	Strontium formate	-1393.3											
C <sub>2</sub> H <sub>2</sub> S	Thiirene									300.0	275.8	255.3	54.7
C <sub>2</sub> H <sub>3</sub> Br	Bromoethene									79.2	81.8	275.8	55.5
C <sub>2</sub> H <sub>3</sub> BrO	Acetyl bromide					-223.5				-190.4			
C <sub>2</sub> H <sub>3</sub> BrO <sub>2</sub>	Bromoacetic acid									-383.5	-338.3	337.0	80.5
C <sub>2</sub> H <sub>3</sub> Cl	Chloroethene	-94.1			59.4	14.6				37.2	53.6	264.0	53.7
C <sub>2</sub> H <sub>3</sub> ClF <sub>2</sub>	1-Chloro-1,1-difluoroethane											307.2	82.5
C <sub>2</sub> H <sub>3</sub> ClO	Acetyl chloride					-272.9	-208.0	200.8	117.0	-242.8	-205.8	295.1	67.8
C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	Chloroacetic acid	-509.7								-427.6	-368.5	325.9	78.8
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
C <sub>2</sub> H <sub>3</sub> O	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									
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									
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									
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>2</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>	Oxaly 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

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>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>4</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>4</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
C <sub>2</sub> H <sub>7</sub> NO	Ethanolamine								195.5				
C <sub>2</sub> H <sub>8</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					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>3</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>2</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				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			-571.5			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> I	Iodoacetone							-130.5		
C <sub>3</sub> H <sub>5</sub> I <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
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		
C <sub>3</sub> H <sub>6</sub> Cl <sub>2</sub> O	1,3-Dichloro-2-propanol			-385.3				-318.4		
C <sub>3</sub> H <sub>6</sub> I <sub>2</sub>	1,2-Diiodopropane							35.6		
C <sub>3</sub> H <sub>6</sub> I <sub>2</sub>	1,3-Diiodopropane			-9.0						
C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	Propanediamide	-546.1								
C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	<i>N</i> -(Aminocarbonyl)acetamide	-544.2						-441.2		
C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	1,1-Dinitropropane			-163.2				-100.7		
C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	1,3-Dinitropropane			-207.1						
C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	2,2-Dinitropropane			-181.2						
C <sub>3</sub> H <sub>6</sub> N <sub>6</sub> O <sub>6</sub>	Hexahydro-1,3,5-trinitro-1,3,5-triazine							192.0	482.4	230.2
C <sub>3</sub> H <sub>6</sub> O	Allyl alcohol			-171.8			138.9	-124.5		

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>3</sub> H <sub>6</sub> O	Propanal					-215.6				-185.6		304.5	80.7
C <sub>3</sub> H <sub>6</sub> O	Acetone					-248.4		199.8	126.3	-217.1	-152.7	295.3	74.5
C <sub>3</sub> H <sub>6</sub> O	Methyloxirane					-123.0		196.5	120.4	-94.7		286.9	72.6
C <sub>3</sub> H <sub>6</sub> O	Oxetane					-110.8				-80.5			
C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	Propanoic acid					-510.7		191.0	152.8	-455.7			
C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	Ethyl formate								149.3				
C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	Methyl acetate					-445.9			141.9	-413.3		324.4	86.0
C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	1,3-Dioxolane					-333.5			118.0	-298.0			
C <sub>3</sub> H <sub>6</sub> O <sub>2</sub> S	Thiolactic acid					-468.4							
C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	1,3,5-Trioxane	-522.5		133.0	111.4					-465.9			
C <sub>3</sub> H <sub>6</sub> S	Thietane					24.7		184.9		60.6	107.1	285.0	68.3
C <sub>3</sub> H <sub>6</sub> S	Methylthiirane					11.3				45.8			
C <sub>3</sub> H <sub>6</sub> S <sub>2</sub>	1,2-Dithiolane									0.0	47.7	313.5	86.5
C <sub>3</sub> H <sub>6</sub> S <sub>2</sub>	1,3-Dithiolane									10.0	54.7	323.3	84.7
C <sub>3</sub> H <sub>6</sub> S <sub>3</sub>	1,3,5-Trithiane									80.0	130.4	336.4	111.3
C <sub>3</sub> H <sub>7</sub> Br	1-Bromopropane					-121.9				-87.0			
C <sub>3</sub> H <sub>7</sub> Br	2-Bromopropane					-130.5				-99.4			
C <sub>3</sub> H <sub>7</sub> Cl	1-Chloropropane					-160.5				-131.9			
C <sub>3</sub> H <sub>7</sub> Cl	2-Chloropropane					-172.3				-144.9			
C <sub>3</sub> H <sub>7</sub> ClO <sub>2</sub>	3-Chloro-1,2-propanediol					-525.3							
C <sub>3</sub> H <sub>7</sub> ClO <sub>2</sub>	2-Chloro-1,3-propanediol					-517.5							
C <sub>3</sub> H <sub>7</sub> F	1-Fluoropropane									-285.9			
C <sub>3</sub> H <sub>7</sub> F	2-Fluoropropane									-293.5			
C <sub>3</sub> H <sub>7</sub> I	1-Iodopropane					-66.0				-30.0			
C <sub>3</sub> H <sub>7</sub> I	2-Iodopropane					-74.8				-40.3			
C <sub>3</sub> H <sub>7</sub> N	Allylamine					-10.0							
C <sub>3</sub> H <sub>7</sub> N	Cyclopropylamine					45.8		187.7	147.1	77.0			
C <sub>3</sub> H <sub>7</sub> NO	<i>N,N</i> -Dimethylformamide					-239.3			150.6	-192.4			
C <sub>3</sub> H <sub>7</sub> NO	Propanamide	-338.2								-259.0			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	1-Nitropropane					-167.2				-124.3		350.0	104.1
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	2-Nitropropane					-180.3			170.3	-138.9			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	Ethyl carbamate	-517.1			156.4	-497.3				-446.3			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	<i>DL</i> -Alanine	-563.6											
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	<i>D</i> -Alanine	-561.2											
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	<i>L</i> -Alanine	-604.0								-465.9			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	$\beta$ -Alanine	-558.0								-424.0			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	Sarcosine	-513.3								-367.3			
C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S	<i>L</i> -Cysteine	-534.1											
C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>	Propyl nitrate					-214.5				-174.1		362.6	123.2
C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>	Isopropyl nitrate					-229.7				-191.0			
C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>	<i>DL</i> -Serine	-739.0											
C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>	<i>L</i> -Serine	-732.7											
C <sub>3</sub> H <sub>8</sub>	Propane					-120.9				-103.8	-23.4	270.3	73.6

C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> O	<i>N</i> -Ethylurea	-357.8							
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> O	<i>N,N</i> -Dimethylurea	-319.1							
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> O	<i>N,N</i> -Dimethylurea	-312.1							
C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	Oxymethurea	-717.0							
C <sub>3</sub> H <sub>8</sub> O	1-Propanol		-302.6		193.6	143.9	-255.1	322.6	85.6
C <sub>3</sub> H <sub>8</sub> O	2-Propanol		-318.1		181.1	156.5	-272.6	309.2	89.3
C <sub>3</sub> H <sub>8</sub> O	Ethyl methyl ether						-216.4	309.2	93.3
C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	1,2-Propylene glycol		-501.0			190.8	-429.8		
C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	1,3-Propylene glycol		-480.8				-408.0		
C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	Ethylene glycol monomethyl ether					171.1			
C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	Dimethoxymethane		-377.8		244.0	162.0	-348.5		
C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	Glycerol		-669.6		206.3	218.9	-577.9		
C <sub>3</sub> H <sub>8</sub> S	1-Propanethiol		-99.9		242.5	144.6	-67.8		
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>7</sub> Al	Trimethyl aluminum		-136.4	-9.9	209.4	155.6	-74.1		
C <sub>3</sub> H <sub>7</sub> B	Trimethylborane		-143.1	-32.1	238.9		-124.3	-35.9	314.7 88.5
C <sub>3</sub> H <sub>7</sub> BO <sub>3</sub>	Trimethyl borate					189.9			
C <sub>3</sub> H <sub>7</sub> ClSi	Trimethylchlorosilane		-382.8	-246.4	278.2		-352.8	-243.5	369.1
C <sub>3</sub> H <sub>7</sub> N	Propylamine		-101.5			164.1	-70.1	39.9	325.4 91.2
C <sub>3</sub> H <sub>7</sub> N	Isopropylamine		-112.3		218.3	163.8	-83.7	32.2	312.2 97.5
C <sub>3</sub> H <sub>7</sub> N	Trimethylamine		-45.7		208.5	137.9	-23.6		287.1 91.8
C <sub>3</sub> H <sub>10</sub> ClN	Propylamine hydrochloride	-354.7							
C <sub>3</sub> H <sub>10</sub> ClN	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	Aminetrimethylboron	-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		



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>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							
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>	<i>L</i> -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>	<i>cis</i> -2-Butene	-29.8	219.9	127.0	-7.1			
C <sub>4</sub> H <sub>8</sub>	<i>trans</i> -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>9</sub> I <sub>2</sub>	1,4-Diodobutane	-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>	<i>L</i> -Asparagine	-789.4						
C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	<i>N</i> -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	<i>S</i> -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			

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> 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					-346.9							-282.0
C <sub>4</sub> H <sub>9</sub> NO	<i>N</i> -Methylpropanamide								179.0				
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
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
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
C <sub>4</sub> H <sub>10</sub> O	Diethyl ether					-279.5		172.4	175.6				-252.1
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>2</sub> H <sub>10</sub> O <sub>2</sub>	Ethylene glycol dimethyl ether									193.3															
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	Dimethylacetal										-389.7														
C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	<i>tert</i> -Butyl hydroperoxide										-245.9														
C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>	Diethylene glycol									244.8	-571.2														
C <sub>4</sub> H <sub>10</sub> O <sub>3</sub> S	Diethyl sulfite										-552.2														
C <sub>4</sub> H <sub>10</sub> O <sub>4</sub> S	Diethyl sulfate										-756.3														
C <sub>4</sub> H <sub>10</sub> S	1-Butanethiol									171.2	-88.0														
C <sub>4</sub> H <sub>10</sub> S	2-Butanethiol										-96.9														
C <sub>4</sub> H <sub>10</sub> S	2-Methyl-1-propanethiol										-97.3														
C <sub>4</sub> H <sub>10</sub> S	2-Methyl-2-propanethiol										-109.6														
C <sub>4</sub> H <sub>10</sub> S	Diethyl sulfide									269.3	171.4	-83.5	368.1	117.0											
C <sub>4</sub> H <sub>10</sub> S	Methyl propyl sulfide											-82.2													
C <sub>4</sub> H <sub>10</sub> S	Isopropyl methyl sulfide											-90.5													
C <sub>4</sub> H <sub>10</sub> S <sub>2</sub>	1,4-Butanedithiol											-50.6													
C <sub>4</sub> H <sub>10</sub> S <sub>2</sub>	Diethyl disulfide											-79.4													
C <sub>4</sub> H <sub>11</sub> N	Butylamine											-91.9													
C <sub>4</sub> H <sub>11</sub> N	<i>sec</i> -Butylamine											-104.6													
C <sub>4</sub> H <sub>11</sub> N	<i>tert</i> -Butylamine											-121.0													
C <sub>4</sub> H <sub>11</sub> N	Isobutylamine											-98.7													
C <sub>4</sub> H <sub>11</sub> N	Diethylamine											-72.2													
C <sub>4</sub> H <sub>11</sub> NO	<i>N,N</i> -Dimethylethanolamine											-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> I <sub>2</sub> N	Tetramethylammonium iodide	-203.9																							
C <sub>4</sub> H <sub>12</sub> N <sub>2</sub>	2-Methyl-1,2-propanediamine											-133.9	-90.3												
C <sub>4</sub> H <sub>12</sub> Pb	Tetramethyl lead											97.9	135.9												
C <sub>4</sub> H <sub>12</sub> Si	Tetramethylsilane											-264.0	-100.0	277.3	204.1	-239.1	-99.9	359.0	143.9						
C <sub>4</sub> H <sub>12</sub> Sn	Tetramethylstannane											-52.3							-18.8						
C <sub>4</sub> H <sub>13</sub> N <sub>3</sub>	Bis(2-aminoethyl)amine																			254.0					
C <sub>4</sub> N <sub>2</sub>	2-Butynedinitrile												500.4							529.2					
C <sub>4</sub> NiO <sub>4</sub>	Nickel carbonyl												-633.0	-588.2	313.4	204.6	-602.9	-587.2	410.6	145.2					
C <sub>5</sub> FeO <sub>5</sub>	Iron pentacarbonyl												-774.0	-705.3	338.1	240.6									
C <sub>6</sub> H <sub>2</sub> F <sub>6</sub> O <sub>2</sub>	Hexafluoroacetylacetone	-2286.7																							
C <sub>6</sub> H <sub>3</sub> NO <sub>5</sub>	5-Nitro-2-furancarboxylic acid	-516.8																							
C <sub>9</sub> H <sub>4</sub> N <sub>4</sub>	1 <i>H</i> -Purine	169.4																							
C <sub>7</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>7</sub> H <sub>2</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>5</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

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>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-Pentenenitrile					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-butenate					-382.9				-341.9			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Methyl methacrylate								191.2				
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	2,4-Pentanedione					-423.8				-382.0			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Dihydro-4-methyl-2(3 <i>H</i> )-furanone					-461.3				-406.5			
C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	Tetrahydro-2 <i>H</i> -pyran-2-one					-436.7				-379.6			
C <sub>5</sub> H <sub>8</sub> O <sub>3</sub>	Methyl acetoacetate					-623.2							
C <sub>5</sub> H <sub>8</sub> O <sub>4</sub>	Glutaric acid	-960.0											
C <sub>5</sub> H <sub>9</sub> ClO <sub>2</sub>	Propyl chloroacetate					-515.5				-467.0			
C <sub>5</sub> H <sub>9</sub> N	Pentanenitrile					-33.1				10.5			
C <sub>5</sub> H <sub>9</sub> N	2,2-Dimethylpropanenitrile					-39.8		232.0	179.4	-2.3			
C <sub>5</sub> H <sub>9</sub> N	1,2,5,6-Tetrahydropyridine					33.5							

C <sub>5</sub> H <sub>9</sub> NO	2-Piperidinone	-306.6				
C <sub>5</sub> H <sub>9</sub> NO	<i>N</i> -Methyl-2-pyrrolidone		-262.2		307.8	
C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>	<i>L</i> -Proline	-515.2				-366.2
C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	<i>D</i> -Glutamic acid	-1005.3				
C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	<i>L</i> -Glutamic acid	-1009.7				
C <sub>5</sub> H <sub>10</sub>	1-Pentene		-46.9	262.6	154.0	-21.1
C <sub>5</sub> H <sub>10</sub>	<i>cis</i> -2-Pentene		-53.7	258.6	151.7	-27.6
C <sub>5</sub> H <sub>10</sub>	<i>trans</i> -2-Pentene		-58.2	256.5	157.0	-31.9
C <sub>5</sub> H <sub>10</sub>	2-Methyl-1-butene		-61.1	254.0	157.2	-35.2
C <sub>5</sub> H <sub>10</sub>	3-Methyl-1-butene		-51.5	253.3	156.1	-27.5
C <sub>5</sub> H <sub>10</sub>	2-Methyl-2-butene		-68.6	251.0	152.8	-41.7
C <sub>5</sub> H <sub>10</sub>	Cyclopentane		-105.1	204.5	128.8	-76.4
C <sub>5</sub> H <sub>10</sub>	Methylcyclobutane		-44.5			
C <sub>5</sub> H <sub>10</sub>	Ethylcyclopropane		-24.8			
C <sub>5</sub> H <sub>10</sub>	1,1-Dimethylcyclopropane		-33.3			-8.2
C <sub>5</sub> H <sub>10</sub>	<i>cis</i> -1,2-Dimethylcyclopropane		-26.3			
C <sub>5</sub> H <sub>10</sub>	<i>trans</i> -1,2-Dimethylcyclopropane		-30.7			
C <sub>5</sub> H <sub>10</sub> Br <sub>2</sub>	2,3-Dibromo-2-methylbutane					-137.6
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O	<i>N</i> -Nitrosopiperidine		-31.1			16.6
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>	<i>N</i> -Nitropiperidine		-93.0			-44.5
C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>	<i>L</i> -Glutamine	-826.4				
C <sub>5</sub> H <sub>10</sub> O	Cyclopentanol		-300.1	204.1	182.5	-242.5
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-Dimethylloxetane		-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	

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>10</sub> O <sub>4</sub>	Glycerol 1-acetate, (DL)					-909.2							
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	D-Ribose	-1047.2											
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	D-Xylose	-1057.8											
C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>	$\alpha$ -D-Arabinopyranose	-1057.9											
C <sub>6</sub> H <sub>10</sub> S	Thiacyclohexane					-106.3		218.2	163.3	-63.5	53.1	323.0	109.7
C <sub>6</sub> H <sub>10</sub> S	Cyclopentanethiol					-89.5		256.9	165.2	-48.1			
C <sub>6</sub> H <sub>11</sub> Br	1-Bromopentane					-170.2				-128.9			
C <sub>6</sub> H <sub>11</sub> Cl	1-Chloropentane					-213.2				-174.9			
C <sub>6</sub> H <sub>11</sub> Cl	1-Chloro-3-methylbutane					-216.0				-179.7			
C <sub>6</sub> H <sub>11</sub> Cl	2-Chloro-2-methylbutane					-235.7				-202.2			
C <sub>6</sub> H <sub>11</sub> Cl	2-Chloro-3-methylbutane					-226.6				-185.1			
C <sub>6</sub> H <sub>11</sub> N	Cyclopentylamine					-95.1		241.0	181.2	-54.9			
C <sub>6</sub> H <sub>11</sub> N	Piperidine					-86.4		210.0	179.9	-47.1			
C <sub>6</sub> H <sub>11</sub> NO	Pentanamide	-379.5								-290.2			
C <sub>6</sub> H <sub>11</sub> NO	2,2-Dimethylpropanamide	-399.7								-313.1			
C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub>	1-Nitropentane					-215.4				-164.4		390.9	137.1
C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub>	DL-Valine	-628.9											
C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub>	L-Valine	-617.9								-455.1			
C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub>	5-Aminopentanoic acid	-604.1								-460.0			
C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub> S	L-Methionine	-577.5								-413.5			
C <sub>6</sub> H <sub>11</sub> NO <sub>4</sub>	2-Ethyl-2-nitro-1,3-propanediol	-606.4											
C <sub>6</sub> H <sub>12</sub>	Pentane					-173.5			167.2	-146.9			
C <sub>6</sub> H <sub>12</sub>	Isopentane					-178.4		260.4	164.8	-153.6			
C <sub>6</sub> H <sub>12</sub>	Neopentane					-190.2				-168.0			
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O	Butylurea	-419.5											
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O	tert-Butylurea	-417.4											
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O	N,N-Diethylurea	-372.2											
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O	Tetramethylurea	-262.2											
C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> S	Tetramethylthiourea	-38.1								44.9			
C <sub>6</sub> H <sub>12</sub> O	1-Pentanol					-351.6			208.1	-294.6			
C <sub>6</sub> H <sub>12</sub> O	2-Pentanol					-365.2				-311.0			
C <sub>6</sub> H <sub>12</sub> O	3-Pentanol					-368.9			239.7	-314.9			
C <sub>6</sub> H <sub>12</sub> O	2-Methyl-1-butanol, ( $\pm$ )					-356.6				-301.4			
C <sub>6</sub> H <sub>12</sub> O	3-Methyl-1-butanol					-356.4				-300.7			
C <sub>6</sub> H <sub>12</sub> O	2-Methyl-2-butanol					-379.5			247.1	-329.3			
C <sub>6</sub> H <sub>12</sub> O	3-Methyl-2-butanol, ( $\pm$ )					-366.6				-313.5			
C <sub>6</sub> H <sub>12</sub> O	2,2-Dimethyl-1-propanol					-399.4							
C <sub>6</sub> H <sub>12</sub> O	Butyl methyl ether					-290.6		295.3	192.7	-258.1			
C <sub>6</sub> H <sub>12</sub> O	Methyl tert-butyl ether					-313.6		265.3	187.5	-283.7			
C <sub>6</sub> H <sub>12</sub> O	Ethyl propyl ether					-303.6		295.0	197.2	-272.0			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	1,5-Pentanediol									-450.8			
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	2,2-Dimethyl-1,3-propanediol	-551.2											
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Diethoxymethane					-450.5				-414.7			





Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>6</sub> H <sub>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			
C <sub>6</sub> H <sub>5</sub> I	Iodobenzene					117.2		205.4	158.7	164.9			
C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	Nitrobenzene					12.5			185.8	68.5	348.8	120.4	
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-Cyclopentene carbonitrile					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>	L-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>3</sub>	Nitrilotriacetic acid	-1311.9			
C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>	L-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-butene			78.4	
C <sub>6</sub> H <sub>10</sub>	Cyclohexene			-38.5	214.6 148.3 -5.0
C <sub>6</sub> H <sub>10</sub>	1-Methylcyclopentene			-36.4	-3.8
C <sub>6</sub> H <sub>10</sub>	3-Methylcyclopentene			-23.7	7.4
C <sub>6</sub> H <sub>10</sub>	4-Methylcyclopentene			-17.6	14.6
C <sub>6</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>2</sub>	Butyl dichloroacetate			-550.1	-497.8
C <sub>6</sub> H <sub>10</sub> O	Cyclohexanone			-271.2	182.2 -226.1
C <sub>6</sub> H <sub>10</sub> O	2-Methylcyclopentanone			-265.2	
C <sub>6</sub> H <sub>10</sub> O	Mesityl oxide				212.5
C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>	Ethyl <i>trans</i> -2-butenolate			-420.0	-375.6
C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>	Methyl cyclobutanecarboxylate			-395.0	-350.2
C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	Ethyl acetoacetate				248.0
C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	Propanoic anhydride			-679.1	-626.5
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Adipic acid	-994.3			
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Diethyl oxalate			-805.5	-742.0
C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>	Ethylene glycol diacetate				310.0
C <sub>6</sub> H <sub>11</sub> Cl	Chlorocyclohexane			-207.2	-163.7
C <sub>6</sub> H <sub>11</sub> ClO <sub>2</sub>	Ethyl 4-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

Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>6</sub> H <sub>12</sub>	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>	$\beta$ - <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>	$\alpha$ - <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> -Sorbosose	-1271.5											
C <sub>6</sub> H <sub>12</sub> S	Thiophane									-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	203.5	-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				-397.9			-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						
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>D</i> -Leucine	-637.3						
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>L</i> -Leucine	-637.4	200.1					-486.8
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>DL</i> -Isoleucine	-635.3						
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>L</i> -Isoleucine	-637.8						
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	<i>L</i> -Norleucine	-639.1						
C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	6-Aminohexanoic acid	-637.3						
C <sub>6</sub> H <sub>14</sub>	Hexane				-198.7		195.6	-166.9
C <sub>6</sub> H <sub>14</sub>	2-Methylpentane				-204.6	290.6	193.7	-174.6
C <sub>6</sub> H <sub>14</sub>	3-Methylpentane				-202.4	292.5	190.7	-171.9
C <sub>6</sub> H <sub>14</sub>	2,2-Dimethylbutane				-213.8	272.5	191.9	-185.9
C <sub>6</sub> H <sub>14</sub>	2,3-Dimethylbutane				-207.4	287.8	189.7	-178.1
C <sub>6</sub> H <sub>14</sub> N <sub>2</sub>	Azopropane				11.5			51.3
C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>	<i>DL</i> -Lysine	-678.7						
C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	<i>D</i> -Arginine	-623.5	250.6	232.0				
C <sub>6</sub> H <sub>14</sub> O	1-Hexanol				-377.5	287.4	240.4	-315.9
C <sub>6</sub> H <sub>14</sub> O	2-Hexanol				-392.0			-333.5
C <sub>6</sub> H <sub>14</sub> O	3-Hexanol				-392.4		286.2	
C <sub>6</sub> H <sub>14</sub> O	2-Methyl-1-pentanol						248.0	
C <sub>6</sub> H <sub>14</sub> O	3-Methyl-2-pentanol						275.9	
C <sub>6</sub> H <sub>14</sub> O	4-Methyl-2-pentanol				-394.7		273.0	
C <sub>6</sub> H <sub>14</sub> O	2-Methyl-3-pentanol				-396.4			
C <sub>6</sub> H <sub>14</sub> O	3-Methyl-3-pentanol						293.4	
C <sub>6</sub> H <sub>14</sub> O	Dipropyl ether				-328.8	323.9	221.6	-293.0
C <sub>6</sub> H <sub>14</sub> O	Diisopropyl ether				-351.5		216.8	-319.2
C <sub>6</sub> H <sub>14</sub> O	Butyl ethyl ether						159.0	
C <sub>6</sub> H <sub>14</sub> O	<i>tert</i> -Butyl ethyl ether							-313.9
C <sub>6</sub> H <sub>14</sub> OS	Dipropyl sulfoxide				-329.4			-254.9
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,2-Hexanediol				-577.1			-490.1
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,6-Hexanediol	-569.9			-548.6			-461.2
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	2-Methyl-2,4-pentanediol						336.0	
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	Ethylene glycol monobutyl ether						281.0	
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	1,1-Diethoxyethane				-491.4			-453.5
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	Ethylene glycol diethyl ether				-451.4		259.4	-408.1
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Diethylene glycol monoethyl ether						301.0	
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Diethylene glycol dimethyl ether						274.1	
C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	Trimethylolpropane	-750.9						
C <sub>6</sub> H <sub>14</sub> O <sub>4</sub>	Triethylene glycol				-804.3			-725.0
C <sub>6</sub> H <sub>14</sub> O <sub>2</sub> S	Dipropyl sulfate				-859.0			-792.0
C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>	Galactitol				-1317.0			

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>6</sub> H <sub>14</sub> O <sub>6</sub>	D-Mannitol					-1314.5								
C <sub>6</sub> H <sub>14</sub> S	1-Hexanethiol					-175.7					-129.9			
C <sub>6</sub> H <sub>14</sub> S	2-Methyl-2-pentanethiol					-188.3					-148.3			
C <sub>6</sub> H <sub>14</sub> S	2,3-Dimethyl-2-butanethiol					-187.1					-147.9			
C <sub>6</sub> H <sub>14</sub> S	Diisopropyl sulfide					-181.6		313.0	232.0		-142.0			
C <sub>6</sub> H <sub>14</sub> S	Butyl ethyl sulfide					-172.3					-127.8			
C <sub>6</sub> H <sub>14</sub> S	Methyl pentyl sulfide					-167.1					-121.8			
C <sub>6</sub> H <sub>14</sub> S <sub>2</sub>	Dipropyl disulfide					-171.5					-118.3			
C <sub>6</sub> H <sub>15</sub> B	Triethylborane					-194.6	9.4	336.7	241.2		-157.7	16.1	437.8	
C <sub>6</sub> H <sub>15</sub> N	Dipropylamine					-156.1					-116.0			
C <sub>6</sub> H <sub>15</sub> N	Diisopropylamine					-178.5					-143.8			
C <sub>6</sub> H <sub>15</sub> N	Triethylamine					-127.7			219.9		-92.7			
C <sub>6</sub> H <sub>15</sub> NO	2-Diethylaminoethanol					-305.9								
C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>	Triethanolamine	-664.2			389.0						-558.3			
C <sub>6</sub> H <sub>16</sub> N <sub>2</sub>	1,6-Hexanediamine	-205.0												
C <sub>6</sub> H <sub>16</sub> N <sub>3</sub> OP	Hexamethylphosphoric triamide								321.0					
C <sub>6</sub> H <sub>18</sub> OSi <sub>2</sub>	Hexamethyldisiloxane					-815.0	-541.5	433.8	311.4		-777.7	-534.5	535.0	238.5
C <sub>6</sub> MoO <sub>6</sub>	Molybdenum hexacarbonyl	-982.8	-877.7	325.9	242.3						-912.1	-856.0	490.0	205.0
C <sub>6</sub> N <sub>4</sub>	Tetracyanoethene	623.8									705.0			
C <sub>7</sub> F <sub>8</sub>	Perfluorotoluene					-1311.1		355.5	262.3					
C <sub>7</sub> F <sub>14</sub>	Perfluoromethylcyclohexane					-2931.1			353.1		-2897.2			
C <sub>7</sub> F <sub>16</sub>	Perfluoroheptane					-3420.0		561.8	419.0		-3383.6			
C <sub>7</sub> H <sub>5</sub> F <sub>5</sub>	2,3,4,5,6-Pentafluorotoluene					-883.8		306.4	225.8		-842.7			
C <sub>7</sub> H <sub>5</sub> Cl <sub>3</sub> O	3-Chlorobenzoyl chloride					-189.7								
C <sub>7</sub> H <sub>5</sub> N <sub>2</sub> O <sub>6</sub>	3,5-Dinitrobenzoic acid	-409.8												
C <sub>7</sub> H <sub>5</sub> ClO	Benzoyl chloride					-158.0					-103.2			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	2-Chlorobenzoic acid	-404.5									-325.0			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	3-Chlorobenzoic acid	-424.3									-342.3			
C <sub>7</sub> H <sub>5</sub> ClO <sub>2</sub>	4-Chlorobenzoic acid	-428.9			163.2						-341.0			
C <sub>7</sub> H <sub>5</sub> F <sub>3</sub>	(Trifluoromethyl)benzene								188.4					
C <sub>7</sub> H <sub>5</sub> N	Benzonitrile					163.2		209.1	165.2		215.7			
C <sub>7</sub> H <sub>5</sub> NO	Benzoxazole	-24.2									44.8			
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	2-Nitrobenzoic acid	-378.8												
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	3-Nitrobenzoic acid	-394.7												
C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>	4-Nitrobenzoic acid	-392.2												
C <sub>7</sub> H <sub>5</sub> N <sub>3</sub> O <sub>6</sub>	2,4,6-Trinitrotoluene	-63.2			243.3									
C <sub>7</sub> H <sub>6</sub> N <sub>2</sub>	1 <i>H</i> -Benzimidazole	79.5									181.7			
C <sub>7</sub> H <sub>6</sub> N <sub>2</sub>	1 <i>H</i> -Indazole	151.9									243.0			
C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	1-Methyl-2,4-dinitrobenzene	-66.4									33.2			
C <sub>7</sub> H <sub>6</sub> O	Benzaldehyde					-87.0		221.2	172.0		-36.7			
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	Benzoic acid	-385.2		167.6	146.8						-294.0			
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	Salicylaldehyde								222.0					
C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	3-(2-Furanyl)-2-propenal	-182.0									-105.9			



Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Isobutyl 2-chloropropanoate					-603.1							-549.6
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Butyl 3-chloropropanoate					-557.9							-502.3
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Isobutyl 3-chloropropanoate					-572.6							-517.3
C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>	Propyl 2-chlorobutanoate					-630.7							-578.4
C <sub>7</sub> H <sub>13</sub> N	Heptanenitrile					-82.8							-31.0
C <sub>7</sub> H <sub>14</sub>	1-Heptene					-97.9		327.6	211.8				-62.3
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -2-Heptene					-105.1							
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -2-Heptene					-109.5							
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -3-Heptene					-104.3							
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -3-Heptene					-109.3							
C <sub>7</sub> H <sub>14</sub>	5-Methyl-1-hexene					-100.0							-65.7
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -3-Methyl-3-hexene					-115.9							-79.4
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -3-Methyl-3-hexene					-112.7							-76.8
C <sub>7</sub> H <sub>14</sub>	2,4-Dimethyl-1-pentene					-117.0							-83.8
C <sub>7</sub> H <sub>14</sub>	4,4-Dimethyl-1-pentene					-110.6							-81.6
C <sub>7</sub> H <sub>14</sub>	2,4-Dimethyl-2-pentene					-123.1							-88.7
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -4,4-Dimethyl-2-pentene					-105.3							-72.6
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -4,4-Dimethyl-2-pentene					-121.7							-88.8
C <sub>7</sub> H <sub>14</sub>	2-Ethyl-3-methyl-1-butene					-114.1							-79.5
C <sub>7</sub> H <sub>14</sub>	2,3,3-Trimethyl-1-butene					-117.7							-85.5
C <sub>7</sub> H <sub>14</sub>	Cycloheptane					-156.6							-118.1
C <sub>7</sub> H <sub>14</sub>	Methylcyclohexane					-190.1			184.8				-154.7
C <sub>7</sub> H <sub>14</sub>	Ethylcyclopentane					-163.4		279.9					-126.9
C <sub>7</sub> H <sub>14</sub>	1,1-Dimethylcyclopentane					-172.1							-138.2
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -1,2-Dimethylcyclopentane					-165.3		269.2					-129.5
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -1,2-Dimethylcyclopentane					-171.2							-136.6
C <sub>7</sub> H <sub>14</sub>	<i>cis</i> -1,3-Dimethylcyclopentane					-170.1							-135.8
C <sub>7</sub> H <sub>14</sub>	<i>trans</i> -1,3-Dimethylcyclopentane					-168.1							-133.6
C <sub>7</sub> H <sub>14</sub>	1,1,2,2-Tetramethylcyclopropane					-119.8							
C <sub>7</sub> H <sub>14</sub> Br <sub>2</sub>	1,2-Dibromoheptane					-212.3							-157.9
C <sub>7</sub> H <sub>14</sub> O	1-Heptanal					-311.5		335.4	230.1				-263.8
C <sub>7</sub> H <sub>14</sub> O	2-Heptanone								232.6				
C <sub>7</sub> H <sub>14</sub> O	3-Heptanone												-297.1
C <sub>7</sub> H <sub>14</sub> O	4-Heptanone												-298.3
C <sub>7</sub> H <sub>14</sub> O	2,2-Dimethyl-3-pentanone					-356.1							-313.6
C <sub>7</sub> H <sub>14</sub> O	2,4-Dimethyl-3-pentanone					-352.9		318.0	233.7				-311.3
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -2-Methylcyclohexanol					-390.2							-327.0
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -2-Methylcyclohexanol, (±)					-415.7							-352.5
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -3-Methylcyclohexanol, (±)					-416.1							-350.9
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -3-Methylcyclohexanol, (±)					-394.4							-329.1
C <sub>7</sub> H <sub>14</sub> O	<i>cis</i> -4-Methylcyclohexanol					-413.2							-347.5
C <sub>7</sub> H <sub>14</sub> O	<i>trans</i> -4-Methylcyclohexanol					-433.3							-367.2
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Heptanoic acid					-610.2			265.4				-536.2

C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Pentyl acetate				261.0	
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Isopentyl acetate				248.5	
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl pentanoate			-553.0		-505.9
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl 3-methylbutanoate			-571.0		-527.0
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Ethyl 2,2-dimethylpropanoate			-577.2		-536.0
C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>	Methyl hexanoate			-540.2		-492.2
C <sub>7</sub> H <sub>14</sub> O <sub>6</sub>	$\alpha$ -Methylglucoside	-1233.3				
C <sub>7</sub> H <sub>15</sub> Br	1-Bromoheptane			-218.4		-167.8
C <sub>7</sub> H <sub>16</sub>	Heptane			-224.2		224.7 -187.6
C <sub>7</sub> H <sub>16</sub>	2-Methylhexane			-229.5	323.3	222.9 -194.5
C <sub>7</sub> H <sub>16</sub>	3-Methylhexane			-226.4		-191.3
C <sub>7</sub> H <sub>16</sub>	3-Ethylpentane			-224.9	314.5	219.6 -189.5
C <sub>7</sub> H <sub>16</sub>	2,2-Dimethylpentane			-238.3	300.3	221.1 -205.7
C <sub>7</sub> H <sub>16</sub>	2,3-Dimethylpentane			-233.1		-198.7
C <sub>7</sub> H <sub>16</sub>	2,4-Dimethylpentane			-234.6	303.2	224.2 -201.6
C <sub>7</sub> H <sub>16</sub>	3,3-Dimethylpentane			-234.2		-201.0
C <sub>7</sub> H <sub>16</sub>	2,2,3-Trimethylbutane			-236.5	292.2	213.5 -204.4
C <sub>7</sub> H <sub>16</sub> O	1-Heptanol			-403.3		272.1 -336.5
C <sub>7</sub> H <sub>16</sub> O	<i>tert</i> -Butyl isopropyl ether			-392.8		-358.1
C <sub>7</sub> H <sub>16</sub> O <sub>2</sub>	1,7-Heptanediol			-574.2		
C <sub>7</sub> H <sub>16</sub> O <sub>2</sub>	2,2-Diethoxypropane			-538.9		-506.9
C <sub>7</sub> H <sub>16</sub> S	1-Heptanethiol			-200.5		-149.9
C <sub>8</sub> H <sub>4</sub> O <sub>3</sub>	Phthalic anhydride	-460.1	180.0	160.0		-371.4
C <sub>8</sub> H <sub>8</sub> NO <sub>2</sub>	1 <i>H</i> -Indole-2,3-dione	-268.2				
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Phthalic acid	-782.0	207.9	188.1		
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Isophthalic acid	-803.0				-696.3
C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	Terephthalic acid	-816.1				-717.9
C <sub>8</sub> H <sub>6</sub> S	Benzo[ <i>b</i> ]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



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>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]	228.9											
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
C <sub>8</sub> H <sub>16</sub>	<i>cis</i> -1-Ethyl-3-methylcyclopentane				-194.4			
C <sub>8</sub> H <sub>16</sub>	<i>trans</i> -1-Ethyl-3-methylcyclopentane				-196.0			
C <sub>8</sub> H <sub>16</sub> O	Octanal							-291.9
								365.4
C <sub>8</sub> H <sub>16</sub> O	2-Ethylhexanal				-348.5			-299.6
C <sub>8</sub> H <sub>16</sub> O	2-Octanone						273.3	
C <sub>8</sub> H <sub>16</sub> O	2,2,4-Trimethyl-3-pentanone				-381.6			-338.3
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Octanoic acid				-636.0		297.9	-554.3
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	2-Ethylhexanoic acid				-635.1			-559.5
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Hexyl acetate						282.8	
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Isobutyl isobutanoate				-587.4			-542.9
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Propyl pentanoate				-583.0			-533.6
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Isopropyl pentanoate				-592.2			-544.9
C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	Methyl heptanoate				-567.1		285.1	-515.5
C <sub>8</sub> H <sub>17</sub> Br	1-Bromooctane				-245.1			-189.3
C <sub>8</sub> H <sub>17</sub> Cl	1-Chlorooctane				-291.3			-238.9
C <sub>8</sub> H <sub>17</sub> NO	Octanamide	-473.2						-362.7
C <sub>8</sub> H <sub>18</sub>	Octane				-250.1		254.6	-208.5
C <sub>8</sub> H <sub>18</sub>	2-Methylheptane				-255.0	356.4	252.0	-215.3
C <sub>8</sub> H <sub>18</sub>	3-Methylheptane, (S)				-252.3	362.6	250.2	-212.5
C <sub>8</sub> H <sub>18</sub>	4-Methylheptane				-251.6		251.1	-211.9
C <sub>8</sub> H <sub>18</sub>	3-Ethylhexane				-250.4			-210.7
C <sub>8</sub> H <sub>18</sub>	2,2-Dimethylhexane				-261.9			-224.5
C <sub>8</sub> H <sub>18</sub>	2,3-Dimethylhexane				-252.6			-213.8
C <sub>8</sub> H <sub>18</sub>	2,4-Dimethylhexane				-257.0			-219.2
C <sub>8</sub> H <sub>18</sub>	2,5-Dimethylhexane				-260.4		249.2	-222.5
C <sub>8</sub> H <sub>18</sub>	3,3-Dimethylhexane				-257.5		246.6	-219.9
C <sub>8</sub> H <sub>18</sub>	3,4-Dimethylhexane				-251.8			-212.8
C <sub>8</sub> H <sub>18</sub>	3-Ethyl-2-methylpentane				-249.6			-211.0
C <sub>8</sub> H <sub>18</sub>	3-Ethyl-3-methylpentane				-252.8			-214.8
C <sub>8</sub> H <sub>18</sub>	2,2,3-Trimethylpentane				-256.9			-220.0
C <sub>8</sub> H <sub>18</sub>	2,2,4-Trimethylpentane				-259.2		239.1	-224.0
C <sub>8</sub> H <sub>18</sub>	2,3,3-Trimethylpentane				-253.5		245.6	-216.3
C <sub>8</sub> H <sub>18</sub>	2,3,4-Trimethylpentane				-255.0	329.3	247.3	-217.3
C <sub>8</sub> H <sub>18</sub>	2,2,3,3-Tetramethylbutane	-269.0	273.7	239.2				-226.0
C <sub>8</sub> H <sub>18</sub> N <sub>2</sub>	Azobutane				-40.1			9.2
C <sub>8</sub> H <sub>18</sub> O	1-Octanol				-426.5		305.2	-355.6
C <sub>8</sub> H <sub>18</sub> O	2-Octanol						330.1	
C <sub>8</sub> H <sub>18</sub> O	2-Ethyl-1-hexanol				-432.8	347.0	317.5	-365.3
C <sub>8</sub> H <sub>18</sub> O	Dibutyl ether				-377.9		278.2	-332.8
C <sub>8</sub> H <sub>18</sub> O	Di- <i>sec</i> -butyl ether				-401.5			-360.6
C <sub>8</sub> H <sub>18</sub> O	Di- <i>tert</i> -butyl ether				-399.6		276.1	-362.0
C <sub>8</sub> H <sub>18</sub> O	<i>tert</i> -Butyl isobutyl ether				-409.1			-369.0

Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>8</sub> H <sub>18</sub> O <sub>2</sub>	1,8-Octanediol	-626.6											
C <sub>8</sub> H <sub>18</sub> O <sub>2</sub>	2,5-Dimethyl-2,5-hexanediol	-681.7											
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>	Diethylene glycol monobutyl ether								354.9				
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>	Diethylene glycol diethyl ether								341.4				
C <sub>8</sub> H <sub>18</sub> O <sub>3</sub> S	Dibutyl sulfite					-693.1					-625.3		
C <sub>8</sub> H <sub>18</sub> O <sub>5</sub>	Tetraethylene glycol					-981.7			428.8		-883.0		
C <sub>8</sub> H <sub>18</sub> S	Dibutyl sulfide					-220.7		405.1	284.3		-167.7		
C <sub>8</sub> H <sub>18</sub> S	Di- <i>sec</i> -butyl sulfide					-220.7					-167.7		
C <sub>8</sub> H <sub>18</sub> S	Di- <i>tert</i> -butyl sulfide					-232.6					-188.8		
C <sub>8</sub> H <sub>18</sub> S	Diisobutyl sulfide					-229.2					-180.5		
C <sub>8</sub> H <sub>18</sub> S <sub>2</sub>	Dibutyl disulfide					-222.9					-160.6		
C <sub>8</sub> H <sub>18</sub> S <sub>2</sub>	Di- <i>tert</i> -butyl disulfide					-255.2					-201.0		
C <sub>8</sub> H <sub>19</sub> N	Dibutylamine					-206.0			292.9		-156.6		
C <sub>8</sub> H <sub>19</sub> N	Diisobutylamine					-218.5					-179.2		
C <sub>8</sub> H <sub>20</sub> BrN	Tetraethylammonium bromide	-342.7											
C <sub>8</sub> H <sub>20</sub> O <sub>2</sub> Si	Ethyl silicate							533.1	364.4				
C <sub>8</sub> H <sub>20</sub> Pb	Tetraethyl lead					52.7		464.6	307.4		109.6		
C <sub>8</sub> H <sub>20</sub> Si	Tetraethylsilane								298.1				
C <sub>8</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>	Toluene-2,4-diisocyanate								287.8				
C <sub>9</sub> H <sub>7</sub> N	Quinoline					141.2					200.5		
C <sub>9</sub> H <sub>7</sub> N	Isoquinoline					144.3		216.0	196.2		204.6		
C <sub>9</sub> H <sub>7</sub> NO	2-Quinolinol	-144.9									-25.5		
C <sub>9</sub> H <sub>7</sub> NO	8-Quinolinol	82.1											
C <sub>9</sub> H <sub>8</sub>	Indene					110.6		215.3	186.9		163.4		
C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	2-(Acetyloxy)benzoic acid	-815.6											
C <sub>9</sub> H <sub>10</sub>	Cyclopropylbenzene					100.3					150.5		
C <sub>9</sub> H <sub>10</sub>	Indan					11.5		234.4	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'-Dipyrrylmethane	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		-265.9			-209.4
C <sub>9</sub> H <sub>12</sub> O <sub>2</sub>	Isopropylbenzene hydroperoxide		-148.3			-78.4
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 3,5-dimethylpyrrole-2-carboxylate	-474.5				
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 2,4-dimethylpyrrole-3-carboxylate	-463.2				
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 2,5-dimethylpyrrole-3-carboxylate	-478.7				
C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub>	Ethyl 4,5-dimethylpyrrole-3-carboxylate	-470.3				
C <sub>9</sub> H <sub>14</sub> O	Isophorone				253.5	
C <sub>9</sub> H <sub>14</sub> O <sub>6</sub>	Triacetin		-1330.8	458.3	384.7	-1245.0
C <sub>9</sub> H <sub>15</sub> N	3-Ethyl-2,4,5-trimethylpyrrole	-89.2				
C <sub>9</sub> H <sub>16</sub>	1-Nonyne		16.3			62.3
C <sub>9</sub> H <sub>16</sub> O <sub>4</sub>	Nonanedioic acid	-1054.3				
C <sub>9</sub> H <sub>17</sub> NO	2,2,6,6-Tetramethyl-4-piperidinone	-334.2				-273.4
C <sub>9</sub> H <sub>18</sub>	Propylcyclohexane		-237.4	311.9	242.0	-192.3
C <sub>9</sub> H <sub>18</sub>	1 $\alpha$ ,3 $\alpha$ ,5 $\beta$ -1,3,5-Trimethylcyclohexane					-212.1
C <sub>9</sub> H <sub>18</sub> O	2-Nonanone		-397.2			-340.7
C <sub>9</sub> H <sub>18</sub> O	5-Nonanone		-398.2	401.4	303.6	-344.9
C <sub>9</sub> H <sub>18</sub> O	2,6-Dimethyl-4-heptanone		-408.5		297.3	-357.6
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Nonanoic acid		-659.7		362.4	-577.3
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	Butyl pentanoate	-613.3				-560.2
C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>	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	<i>N</i> -Butylpiperidine		-171.8			
C <sub>9</sub> H <sub>19</sub> N	2,2,6,6-Tetramethylpiperidine		-206.9			-159.9
C <sub>9</sub> H <sub>20</sub>	Nonane		-274.7		284.4	-228.2
C <sub>9</sub> H <sub>20</sub>	2,2-Dimethylheptane		-288.1			
C <sub>9</sub> H <sub>20</sub>	2,2,3-Trimethylhexane		-282.7			
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	-403.0				
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>6</sub> N <sub>2</sub>	2-Quinolinecarbonitrile	246.5				
C <sub>10</sub> H <sub>6</sub> N <sub>2</sub>	3-Quinolinecarbonitrile	242.3				

Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>10</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	1,5-Dinitronaphthalene	29.8											
C <sub>10</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>	1,8-Dinitronaphthalene	39.7											
C <sub>10</sub> H <sub>7</sub> Cl	1-Chloronaphthalene					54.6			212.6	119.8			
C <sub>10</sub> H <sub>7</sub> Cl	2-Chloronaphthalene	55.4								137.4			
C <sub>10</sub> H <sub>7</sub> I	1-Iodonaphthalene					161.5				233.8			
C <sub>10</sub> H <sub>7</sub> I	2-Iodonaphthalene	144.3								235.1			
C <sub>10</sub> H <sub>7</sub> NO <sub>2</sub>	1-Nitronaphthalene	42.6								111.2			
C <sub>10</sub> H <sub>8</sub>	Naphthalene	78.5	201.6	167.4	165.7					150.6	224.1	333.1	131.9
C <sub>10</sub> H <sub>8</sub>	Azulene	212.3								289.1			
C <sub>10</sub> H <sub>8</sub> O	1-Naphthol	-121.5			166.9					-30.4			
C <sub>10</sub> H <sub>8</sub> O	2-Naphthol					-124.1				-29.9			
C <sub>10</sub> H <sub>9</sub> N	1-Naphthylamine	67.8								132.8			
C <sub>10</sub> H <sub>9</sub> N	2-Naphthylamine	60.2								134.3			
C <sub>10</sub> H <sub>10</sub>	1,2-Dihydronaphthalene					71.6							
C <sub>10</sub> H <sub>10</sub>	1,4-Dihydronaphthalene					84.2							
C <sub>10</sub> H <sub>10</sub> O	1-Tetralone	-209.6											
C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	Dimethyl phthalate								303.1				
C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	Dimethyl isophthalate	-730.9											
C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	Dimethyl terephthalate	-732.6			261.1								
C <sub>10</sub> H <sub>12</sub>	1,2,3,4-Tetrahydronaphthalene					-29.2			217.5	26.0			
C <sub>10</sub> H <sub>14</sub>	Butylbenzene					-63.2		321.2	243.4	-11.8			
C <sub>10</sub> H <sub>14</sub>	<i>sec</i> -Butylbenzene, ( $\pm$ )					-66.4				-18.4			
C <sub>10</sub> H <sub>14</sub>	<i>tert</i> -Butylbenzene					-71.9				-23.0			
C <sub>10</sub> H <sub>14</sub>	Isobutylbenzene					-69.8				-21.9			
C <sub>10</sub> H <sub>14</sub>	1-Isopropyl-2-methylbenzene					-73.3							
C <sub>10</sub> H <sub>14</sub>	1-Isopropyl-3-methylbenzene					-78.6							
C <sub>10</sub> H <sub>14</sub>	1-Isopropyl-4-methylbenzene					-78.0			236.4				
C <sub>10</sub> H <sub>14</sub>	<i>o</i> -Diethylbenzene					-68.5							
C <sub>10</sub> H <sub>14</sub>	<i>m</i> -Diethylbenzene					-73.5							
C <sub>10</sub> H <sub>14</sub>	<i>p</i> -Diethylbenzene					-72.8							
C <sub>10</sub> H <sub>14</sub>	3-Ethyl-1,2-dimethylbenzene					-80.5							
C <sub>10</sub> H <sub>14</sub>	4-Ethyl-1,2-dimethylbenzene					-86.0							
C <sub>10</sub> H <sub>14</sub>	2-Ethyl-1,3-dimethylbenzene					-80.1							
C <sub>10</sub> H <sub>14</sub>	2-Ethyl-1,4-dimethylbenzene					-84.8							
C <sub>10</sub> H <sub>14</sub>	1-Ethyl-2,4-dimethylbenzene					-84.1							
C <sub>10</sub> H <sub>14</sub>	1-Ethyl-3,5-dimethylbenzene					-87.8							
C <sub>10</sub> H <sub>14</sub>	1,2,4,5-Tetramethylbenzene	-119.9		245.6	215.1								
C <sub>10</sub> H <sub>14</sub> O	Thymol	-309.7								-218.5			
C <sub>10</sub> H <sub>16</sub>	Dipentene					-50.8			249.4	-2.6			
C <sub>10</sub> H <sub>16</sub>	$\alpha$ -Limonene					-54.5			249.0				
C <sub>10</sub> H <sub>16</sub>	$\alpha$ -Pinene					-16.4				28.3			
C <sub>10</sub> H <sub>16</sub>	$\beta$ -Pinene					-7.7				38.7			
C <sub>10</sub> H <sub>16</sub>	$\alpha$ -Terpinene									-20.6			

C <sub>10</sub> H <sub>16</sub>	β-Myrcene				14.5			
C <sub>10</sub> H <sub>16</sub>	<i>cis, cis</i> -2,6-Dimethyl-2,4,6-octatriene				-24.0			
C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	Ethylenediaminetetraacetic acid	-1759.5						
C <sub>10</sub> H <sub>16</sub> O	Camphor, (±)	-319.4		271.2				-267.5
C <sub>10</sub> H <sub>18</sub>	1,1'-Bicyclopentyl				-178.9			
C <sub>10</sub> H <sub>18</sub>	<i>cis</i> -Decahydronaphthalene				-219.4	265.0	232.0	-169.2
C <sub>10</sub> H <sub>18</sub>	<i>trans</i> -Decahydronaphthalene				-230.6	264.9	228.5	-182.1
C <sub>10</sub> H <sub>18</sub> O <sub>4</sub>	Sebacic acid	-1082.6						-921.9
C <sub>10</sub> H <sub>19</sub> N	Decanenitrile				-158.4			-91.5
C <sub>10</sub> H <sub>20</sub>	1-Decene				-173.8	425.0	300.8	-123.3
C <sub>10</sub> H <sub>20</sub>	<i>cis</i> -1,2-Di- <i>tert</i> -butylethene				-163.6			
C <sub>10</sub> H <sub>20</sub>	Butylcyclohexane				-263.1	345.0	271.0	-213.7
C <sub>10</sub> H <sub>20</sub> O <sub>2</sub>	Decanoic acid	-713.7			-684.3			-594.9
C <sub>10</sub> H <sub>20</sub> O <sub>2</sub>	Methyl nonanoate				-616.2			-554.2
C <sub>10</sub> H <sub>21</sub> NO <sub>2</sub>	1-Nitrodecane				-351.5			
C <sub>10</sub> H <sub>22</sub>	Decane				-300.9		314.4	-249.5
C <sub>10</sub> H <sub>22</sub>	2-Methylnonane				-309.8	420.1	313.3	-260.2
C <sub>10</sub> H <sub>22</sub>	5-Methylnonane				-307.9	423.8	314.4	-258.6
C <sub>10</sub> H <sub>22</sub> O	1-Decanol				-478.1		370.6	-396.6
C <sub>10</sub> H <sub>22</sub> O	Dipentyl ether						250.0	
C <sub>10</sub> H <sub>22</sub> O	Diisopentyl ether						379.0	
C <sub>10</sub> H <sub>22</sub> O <sub>2</sub>	1,10-Decanediol	-678.9						
C <sub>10</sub> H <sub>22</sub> O <sub>2</sub>	Ethylene glycol dibutyl ether						350.0	
C <sub>10</sub> H <sub>22</sub> S	1-Decanethiol	-309.9			-276.5	476.1	350.4	-211.5
C <sub>10</sub> H <sub>22</sub> S	Dipentyl sulfide				-266.4			-204.9
C <sub>10</sub> H <sub>22</sub> S	Diisopentyl sulfide				-281.8			-221.5
C <sub>10</sub> H <sub>23</sub> N	Octyldimethylamine				-232.8			
C <sub>11</sub> H <sub>8</sub> O <sub>2</sub>	1-Naphthalenecarboxylic acid	-333.5						-223.1
C <sub>11</sub> H <sub>8</sub> O <sub>2</sub>	2-Naphthalenecarboxylic acid	-346.1						-232.5
C <sub>11</sub> H <sub>10</sub>	1-Methylnaphthalene				56.3	254.8	224.4	
C <sub>11</sub> H <sub>10</sub>	2-Methylnaphthalene	44.9	220.0	196.0				106.7
C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	<i>L</i> -Tryptophan	-415.3	251.0	238.1				
C <sub>11</sub> H <sub>14</sub>	1,1-Dimethylindan				-53.6			-1.6
C <sub>11</sub> H <sub>16</sub>	1- <i>tert</i> -Butyl-3-methylbenzene				-109.7			
C <sub>11</sub> H <sub>16</sub>	1- <i>tert</i> -Butyl-4-methylbenzene				-109.7			-57.0
C <sub>11</sub> H <sub>16</sub>	Pentamethylbenzene	-144.6						-67.2
C <sub>11</sub> H <sub>20</sub>	Spiro[5.5]undecane				-244.5			-188.3
C <sub>11</sub> H <sub>22</sub>	1-Undecene						344.9	
C <sub>11</sub> H <sub>22</sub> O <sub>2</sub>	Methyl decanoate				-640.5			-573.8
C <sub>11</sub> H <sub>24</sub>	Undecane				-327.2		344.9	-270.8
C <sub>11</sub> H <sub>24</sub> O	1-Undecanol				-504.8			
C <sub>12</sub> F <sub>27</sub> N	Tris(perfluorobutyl)amine						418.4	
C <sub>12</sub> H <sub>8</sub>	Acenaphthylene	186.7		166.4				259.7
C <sub>12</sub> H <sub>8</sub> N <sub>2</sub>	Phenazine	237.0						328.8
C <sub>12</sub> H <sub>8</sub> O	Dibenzofuran	-5.3						83.4
C <sub>12</sub> H <sub>8</sub> S	Dibenzothiophene	120.0						205.1

Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>12</sub> H <sub>8</sub> S <sub>2</sub>	Thianthrene	182.0								286.0			
C <sub>12</sub> H <sub>9</sub> N	Carbazole	101.7								200.7			
C <sub>12</sub> H <sub>10</sub>	Acenaphthene	70.3		188.9	190.4					156.0			
C <sub>12</sub> H <sub>10</sub>	Biphenyl	99.4		209.4	198.4					181.4			
C <sub>12</sub> H <sub>10</sub> N <sub>2</sub> O	<i>trans</i> -Azoxybenzene	243.4								342.0			
C <sub>12</sub> H <sub>10</sub> N <sub>2</sub> O	<i>N</i> -Nitrosodiphenylamine	227.2											
C <sub>12</sub> H <sub>10</sub> O	Diphenyl ether	-32.1		233.9	216.6	-14.9				52.0			
C <sub>12</sub> H <sub>10</sub> O <sub>2</sub>	1-Naphthaleneacetic acid	-359.2											
C <sub>12</sub> H <sub>10</sub> O <sub>2</sub>	2-Naphthaleneacetic acid	-371.9											
C <sub>12</sub> H <sub>11</sub> N	Diphenylamine	130.2								219.3			
C <sub>12</sub> H <sub>11</sub> N	2-Aminobiphenyl	93.8								184.4			
C <sub>12</sub> H <sub>11</sub> N	4-Aminobiphenyl	81.0											
C <sub>12</sub> H <sub>12</sub> N <sub>2</sub>	<i>p</i> -Benzidine	70.7											
C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>	Diethyl phthalate					-776.6		425.1	366.1	-688.4			
C <sub>12</sub> H <sub>16</sub>	Cyclohexylbenzene					-76.6				-16.7			
C <sub>12</sub> H <sub>17</sub> NO <sub>4</sub>	Diethyl 3,5-dimethylpyrrole-2,4-dicarboxylate	-916.7											
C <sub>12</sub> H <sub>18</sub>	3,9-Dodecadiyne					197.8							
C <sub>12</sub> H <sub>18</sub>	5,7-Dodecadiyne					181.5							
C <sub>12</sub> H <sub>18</sub>	1- <i>tert</i> -Butyl-3,5-dimethylbenzene					-146.5							
C <sub>12</sub> H <sub>18</sub>	Hexamethylbenzene	-162.4		306.3	245.6					-77.4			
C <sub>12</sub> H <sub>22</sub>	Cyclohexylcyclohexane					-273.7				-215.7			
C <sub>12</sub> H <sub>22</sub> O <sub>4</sub>	Dodecanedioic acid	-1130.0								-976.9			
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	Sucrose	-2226.1											
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	$\beta$ - <i>D</i> -Lactose	-2236.7											
C <sub>12</sub> H <sub>24</sub>	1-Dodecene					-226.2		484.8	360.7	-165.4			
C <sub>12</sub> H <sub>24</sub> O <sub>2</sub>	Dodecanoic acid	-774.6			404.3	-737.9				-642.0			
C <sub>12</sub> H <sub>24</sub> O <sub>2</sub>	Methyl undecanoate					-665.2				-593.8			
C <sub>12</sub> H <sub>24</sub> O <sub>12</sub>	$\alpha$ -Lactose monohydrate	-2484.1											
C <sub>12</sub> H <sub>25</sub> Br	1-Bromododecane					-344.7				-269.9			
C <sub>12</sub> H <sub>25</sub> Cl	1-Chlorododecane					-392.3				-321.1			
C <sub>12</sub> H <sub>26</sub>	Dodecane					-350.9			375.8	-289.4			
C <sub>12</sub> H <sub>26</sub> O	1-Dodecanol					-528.5			438.1	-436.6			
C <sub>12</sub> H <sub>26</sub> O <sub>3</sub>	Diethylene glycol dibutyl ether								452.0				
C <sub>12</sub> H <sub>27</sub> N	Tributylamine					-281.6							
C <sub>12</sub> H <sub>27</sub> O <sub>3</sub> P	Tributyl phosphate								379.4				
C <sub>13</sub> H <sub>8</sub> O <sub>2</sub>	Xanthone	-191.5											
C <sub>13</sub> H <sub>9</sub> N	Acridine	179.4								273.9			
C <sub>13</sub> H <sub>9</sub> N	Phenanthridine	141.9								240.5			
C <sub>13</sub> H <sub>9</sub> N	Benzo[ <i>f</i> ]quinoline	150.6								233.7			
C <sub>13</sub> H <sub>10</sub>	9 <i>H</i> -Fluorene	89.9		207.3	203.1					175.0			173.1
C <sub>13</sub> H <sub>10</sub> N <sub>2</sub>	9-Acridinamine	159.2											
C <sub>13</sub> H <sub>10</sub> O	Benzophenone	-34.5			224.8					54.9			
C <sub>13</sub> H <sub>11</sub> N	9-Methyl-9 <i>H</i> -carbazole	105.5								201.0			

C <sub>13</sub> H <sub>12</sub>	Diphenylmethane	71.5	239.3	89.7	139.0
C <sub>13</sub> H <sub>13</sub> N	<i>N</i> -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>	<i>cis</i> -Stilbene			183.3	252.3
C <sub>14</sub> H <sub>12</sub>	<i>trans</i> -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- <i>tert</i> -butylbenzene			-188.8	
C <sub>14</sub> H <sub>22</sub>	1,4-Di- <i>tert</i> -butylbenzene	-212.0			
C <sub>14</sub> H <sub>23</sub> N <sub>3</sub> O <sub>10</sub>	Pentetic acid	-2225.2			
C <sub>14</sub> H <sub>27</sub> N	Tetradecanenitrile			-260.2	-174.9
C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	Tetradecanoic acid	-833.5	432.0	-788.8	-693.7
C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	Methyl tridecanoate			-717.9	-635.3
C <sub>14</sub> H <sub>30</sub> O	1-Tetradecanol	-629.6	388.0	-580.6	
C <sub>15</sub> H <sub>16</sub> O <sub>2</sub>	2,2-Bis(4-hydroxyphenyl)propane	-368.6			
C <sub>15</sub> H <sub>24</sub>	1,3-Di- <i>tert</i> -butyl-5-methylbenzene	-245.8			
C <sub>15</sub> H <sub>24</sub> O	2,6-Di- <i>tert</i> -butyl-4-methylphenol	-410.0			-296.9
C <sub>15</sub> H <sub>30</sub>	Decylcyclopentane			-367.3	
C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	Pentadecanoic acid	-861.7	443.3	-811.7	-699.0
C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	Methyl tetradecanoate			-743.9	-656.9
C <sub>15</sub> H <sub>32</sub> O	1-Pentadecanol	-658.2			
C <sub>16</sub> H <sub>10</sub>	Fluoranthene	189.9	230.6	230.2	289.0
C <sub>16</sub> H <sub>10</sub>	Pyrene	125.5	224.9	229.7	225.7
C <sub>16</sub> H <sub>22</sub> O <sub>4</sub>	Dibutyl phthalate			-842.6	-750.9
C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>	$\alpha$ - <i>D</i> -Glucose pentaacetate	-2249.4			
C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>	$\beta$ - <i>D</i> -Glucose pentaacetate	-2232.6			
C <sub>16</sub> H <sub>26</sub>	Decylbenzene			-218.3	-138.6
C <sub>16</sub> H <sub>32</sub>	1-Hexadecene			-328.7	587.9 488.9 -248.4
C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	Hexadecanoic acid	-891.5	452.4	460.7	-838.1 -737.1
C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	Methyl pentadecanoate			-771.0	-680.0
C <sub>16</sub> H <sub>33</sub> Br	1-Bromohexadecane			-444.5	-350.2
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



Molecular Formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	$S^\circ$ J/mol K	$C_p$ J/mol K
C <sub>16</sub> H <sub>36</sub> I <sub>N</sub>	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>	<i>o</i> -Terphenyl			298.8	274.8			337.1	369.1				
C <sub>18</sub> H <sub>14</sub>	<i>p</i> -Terphenyl	163.0		285.6	278.7					279.0			
C <sub>18</sub> H <sub>15</sub> N	Triphenylamine	234.7								326.8			
C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P	Triphenyl phosphate			397.5	356.2								
C <sub>18</sub> H <sub>15</sub> P	Triphenylphosphine				312.5								
C <sub>18</sub> H <sub>30</sub>	1,3,5-Tri- <i>tert</i> -butylbenzene	-320.0											
C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	Oleic acid								577.0				
C <sub>18</sub> H <sub>34</sub> O <sub>4</sub>	Dibutyl sebacate								619.0				
C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>	Stearic acid	-947.7			501.5	-884.7				-781.2			
C <sub>18</sub> H <sub>37</sub> Cl	1-Chlorooctadecane					-544.1				-446.0			
C <sub>18</sub> H <sub>38</sub>	Octadecane	-567.4		480.2	485.6					-414.6			
C <sub>18</sub> H <sub>39</sub> N	Trihexylamine					-433.0							
C <sub>19</sub> H <sub>16</sub> O	Triphenylmethanol	-2.5											
C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	Methyl oleate					-734.5				-649.9			
C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	Methyl <i>trans</i> -9-octadecenoate					-737.0							
C <sub>20</sub> H <sub>12</sub>	Perylene	182.8		264.6	274.9								
C <sub>20</sub> H <sub>12</sub>	Benzo[a]pyrene												254.8
C <sub>20</sub> H <sub>14</sub> O <sub>4</sub>	Diphenyl phthalate	-489.2											
C <sub>20</sub> H <sub>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