

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°	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

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

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
F ₃ Th	Thorium(III) fluoride									-1166.1	-1160.6	339.2	73.3
F ₃ U	Uranium(III) fluoride	-1502.1	-1433.4	123.4	95.1					-1058.5	-1051.9	331.9	74.3
F ₃ Y	Yttrium fluoride	-1718.8	-1644.7	100.0						-1288.7	-1277.8	311.8	70.3
F ₄ Ge	Germanium(IV) fluoride									-1190.2	-1150.0	301.9	
F ₄ Hf	Hafnium fluoride	-1930.5	-1830.4	113.0						-1669.8			
F ₄ N ₂	Tetrafluorohydrazine									-8.4	79.9	301.2	79.2
F ₄ Pb	Lead(IV) fluoride	-941.8											
F ₅ S	Sulfur tetrafluoride									-763.2	-722.0	299.6	77.6
F ₅ Si	Tetrafluorosilane									-1615.0	-1572.8	282.8	73.6
F ₄ Th	Thorium(IV) fluoride	-2097.8	-2003.4	142.0	110.7					-1759.0	-1724.0	341.7	93.0
F ₄ U	Uranium(IV) fluoride	-1914.2	-1823.3	151.7	116.0					-1598.7	-1572.7	368.0	91.2
F ₄ V	Vanadium(IV) fluoride	-1403.3											
F ₄ Xe	Xenon tetrafluoride	-261.5											
F ₅ Zr	Zirconium(IV) fluoride	-1911.3	-1809.9	104.6	103.7								
F ₅ I	Iodine pentafluoride					-864.8				-822.5	-751.7	327.7	99.2
F ₅ Nb	Niobium(V) fluoride	-1813.8	-1699.0	160.2	134.7					-1739.7	-1673.6	321.9	97.1
F ₅ P	Phosphorus(V) fluoride									-1594.4	-1520.7	300.8	84.8
F ₅ Ta	Tantalum(V) fluoride	-1903.6											
F ₅ V	Vanadium(V) fluoride					-1480.3	-1373.1	175.7		-1433.9	-1369.8	320.9	98.6
F ₆ H ₂ N ₂ Si	Ammonium hexafluorosilicate	-2681.7	-2365.3	280.2	228.1								
F ₆ Ir	Iridium(VI) fluoride	-579.7	-461.6	247.7						-544.0	-460.0	357.8	121.1
F ₆ K ₂ Si	Potassium hexafluorosilicate	-2956.0	-2798.6	226.0									
F ₆ Mo	Molybdenum(VI) fluoride					-1585.5	-1473.0	259.7	169.8	-1557.7	-1472.2	350.5	120.6
F ₆ Na ₂ Si	Sodium hexafluorosilicate	-2909.6	-2754.2	207.1	187.1								
F ₆ Os	Osmium(VI) fluoride				246.0							358.1	120.8
F ₆ Pt	Platinum(VI) fluoride			235.6								348.3	122.8
F ₆ S	Sulfur hexafluoride									-1220.5	-1116.5	291.5	97.0
F ₆ Se	Selenium hexafluoride									-1117.0	-1017.0	313.9	110.5
F ₆ Si ₂	Hexafluorodisilane	-2427.0	-2299.7	219.1	129.5					-2383.3	-2307.3	391.0	129.9
F ₆ Te	Tellurium hexafluoride									-1318.0			
F ₆ U	Uranium(VI) fluoride	-2197.0	-2068.5	227.6	166.8					-2147.4	-2063.7	377.9	129.6
F ₆ 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 ₂	Iron(II) iodide	-113.0								71.0			
FeI ₃	Iron(III) iodide												
FeMoO ₄	Iron(II) molybdate	-1075.0	-975.0	129.3	118.5								
FeO	Iron(II) oxide	-272.0											
FeO ₄ S	Iron(II) sulfate	-928.4	-820.8	107.5	100.6								
FeO ₄ 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 ₂	Iron disulfide	-178.2	-166.9	52.9	62.2								
Fe ₂ O ₃	Iron(III) oxide	-824.2	-742.2	87.4	103.9								
Fe ₂ O ₄ Si	Iron(II) orthosilicate	-1479.9	-1379.0	145.2	132.9								
Fe ₃ O ₄	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 ₃ O ₃	Gallium(III) hydroxide	-964.4	-831.3	100.0									
GaI ₃	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 ₂	Digallium									438.5			
Ga ₂ O	Gallium suboxide	-356.0											
Ga ₂ O ₃	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 ₂ O ₃	Gadolinium(III) oxide	-1819.6			106.7								
Ge	Germanium	0.0		31.1	23.3					372.0	331.2	167.9	30.7
GeH ₃ I	Iodogermane											283.2	57.5
GeH ₄	Germane									90.8	113.4	217.1	45.0
GeI ₄	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 ₂	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

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		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K		
H ₄ IN	Ammonium iodide	-201.4	-112.5	117.0				50.6	149.3	121.2	98.9	95.4	159.4	238.5	48.4
H ₄ N ₂	Hydrazine														
H ₄ N ₂ O ₂	Ammonium nitrite	-256.5													
H ₄ N ₂ O ₃	Ammonium nitrate	-365.6	-183.9	151.1	139.3										
H ₄ N ₄	Ammonium azide	115.5	274.2	112.5											
H ₄ O ₂ Si	Orthosilicic acid	-1481.1	-1332.9	192.0											
H ₄ O ₂ P ₂	Diphosphoric acid	-2241.0				-2231.7									
H ₄ P ₂	Diphosphine					-5.0				20.9					
H ₄ Si	Silane									34.3	56.9	204.6	42.8		
H ₄ Sn	Stannane									162.8	188.3	227.7	49.0		
H ₄ NO	Ammonium hydroxide					-361.2	-254.0	165.6	154.9						
H ₅ NO ₃ S	Ammonium hydrogen sulfite	-768.6													
H ₅ NO ₄ S	Ammonium hydrogen sulfate	-1027.0													
H ₆ Si ₂	Disilane									80.3	127.3	272.7	80.8		
H ₈ N ₂ O ₂ S	Ammonium sulfate	-1180.9	-901.7	220.1	187.5										
H ₈ Si ₃	Trisilane					92.5				120.9					
H ₉ N ₂ O ₄ P	Ammonium hydrogen phosphate	-1566.9				188.0									
H ₉ N ₃ O ₄ 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 ₂	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 ₂	Mercury(II) iodide	-105.4	-101.7	180.0											
HgO	Mercury(II) oxide	-90.8	-58.5	70.3	44.1										
HgO ₄ 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 ₂	Dimercury									108.8	68.2	288.1	37.4		
Hg ₂ I ₂	Mercury(I) iodide	-121.3	-111.0	233.5											
Hg ₂ O ₄ 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 ₂ O ₃	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 ₃	Potassium iodate	-501.4	-418.4	151.5	106.5										
IKO ₄	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 ₃	Sodium iodate	-481.8				92.0									
INaO ₄	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 ₂	Iodine (rhombic)	0.0		116.1	54.4					62.4	19.3	260.7	36.9		
I ₂ Mg	Magnesium iodide	-364.0	-358.2	129.7											
I ₂ Ni	Nickel(II) iodide	-78.2													
I ₂ Pb	Lead(II) iodide	-175.5	-173.6	174.9	77.4										
I ₂ Sn	Tin(II) iodide	-143.5													
I ₂ Sr	Strontium iodide	-558.1			81.6										
I ₂ Zn	Zinc iodide	-208.0	-209.0	161.1											
I ₃ In	Indium(III) iodide	-238.0								-120.5					
I ₃ La	Lanthanum iodide	-668.9													
I ₃ Lu	Lutetium iodide	-548.0													
I ₃ P	Phosphorus(III) iodide	-45.6									374.4	78.4			
I ₃ Ru	Ruthenium(III) iodide	-65.7													
I ₃ Sb	Antimony(III) iodide	-100.4													
I ₄ Pt	Platinum(IV) iodide	-72.8													
I ₄ Si	Tetraiodosilane	-189.5													
I ₄ Ti	Titanium(IV) iodide	-375.7	-371.5	249.4	125.7					-277.8					
I ₄ V	Vanadium(IV) iodide	-								-122.6					
I ₄ 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						446.1	105.4			

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

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
Po	Polonium	0.0								355.6	320.9	189.8	21.4
Pr	Praseodymium	0.0		73.2	27.2					565.3	520.5	192.4	25.5
Pt	Platinum	0.0		41.6	25.9								
PtS	Platinum(II) sulfide	-81.6	-76.1	55.1	43.4								
PtS ₂	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 ₂	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 ₂	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 ₂	Diantimony									235.6	187.0	254.9	36.4
Sc	Scandium	0.0		34.6	25.5					377.8	336.0	174.8	22.1
Se	Selenium (gray)	0.0		42.4	25.4					227.1	187.0	176.7	20.8
Se	Selenium (α form)	6.7								227.1			
Se	Selenium (vitreous)	5.0								227.1			
SeSr	Strontium selenide	-385.8											
SeTl ₂	Thallium(I) selenide	-59.0	-59.0	172.0									
SeZn	Zinc selenide	-163.0	-163.0	84.0									
Se ₂	Diselenide									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 ₂	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 ₂	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

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 ₂ O ₃	Silver(I) carbonate	-505.8	-436.8	167.4	112.3								
CBaO ₃	Barium carbonate	-1213.0	-1134.4	112.1	86.0								
CBeO ₃	Beryllium carbonate	-1025.0		52.0	65.0								
CBrClF ₂	Bromochlorodifluoromethane									318.5		74.6	
CBrClF	Bromodichlorofluoromethane									330.6		80.0	
CBrCl ₃	Bromotrichloromethane									-41.1		85.3	
CBrF ₃	Bromotrifluoromethane									-648.3		69.3	

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

Molecular formula	Name	Crystal				Liquid				Gas				
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	
C_2ClF_3	Chlorotrifluoroethene				-522.7					-505.5	-523.8	322.1	83.9	
C_2ClF_5	Chloropentafluoroethane									-1118.8			184.2	
$C_2Cl_2F_4$	1,2-Dichloro-1,1,2,2-tetrafluoroethane				-960.2			111.7		-937.0				
$C_2Cl_2O_2$	Oxalyl chloride				-367.6					-335.8				
$C_2Cl_3F_3$	1,1,2-Trichloro-1,2,2-trifluoroethane				-745.0			170.1		-716.8				
C_2Cl_3N	Trichloroacetonitrile										336.6	96.1		
C_2Cl_4	Tetrachloroethene				-50.6	3.0	266.9	143.4	-10.9					
$C_2Cl_4F_2$	1,1,1,2-Tetrachloro-2,2-difluoroethane									-489.9	-407.0	382.9	123.4	
$C_2Cl_4F_2$	1,1,2,2-Tetrachloro-1,2-difluoroethane							173.6						
C_2Cl_4O	Trichloroacetyl chloride				-280.8					-239.8				
C_2Cl_6	Hexachloroethane	-202.8		237.3	198.2					-143.6				
C_2F_3N	Trifluoroacetonitrile									-497.9	298.1	77.9		
C_2F_4	Tetrafluoroethene	-820.5								-658.9	300.1	80.5		
C_2F_6	Hexafluoroethane									-1344.2	332.3	106.7		
C_2HBr	Bromoacetylene										253.7	55.7		
$C_2HBrClF_3$	1-Bromo-2-chloro-1,1,2-trifluoroethane				-675.3					-644.8				
$C_2HBrClF_3$	2-Bromo-2-chloro-1,1,1-trifluoroethane				-720.0					-690.4				
C_2HCl	Chloroacetylene										242.0	54.3		
C_2HClF_2	1-Chloro-2,2-difluoroethene									-315.5	-289.1	303.0	72.1	
C_2HCl_2F	1,1-Dichloro-2-fluoroethene										313.9	76.5		
$C_2HCl_2F_3$	2,2-Dichloro-1,1,1-trifluoroethane										352.8	102.5		
C_2HCl_3	Trichloroethene				-43.6	228.4	124.4	-9.0			324.8	80.3		
C_2HCl_3O	Trichloroacetaldehyde				-234.5		151.0	-196.6						
C_2HCl_3O	Dichloroacetyl chloride				-280.4			-241.0						
$C_2HCl_3O_2$	Trichloroacetic acid	-503.3												
C_2HCl_5	Pentachloroethane				-187.6			173.8	-142.0					
C_2HF	Fluoroacetylene										231.7	52.4		
C_2HF_3	Trifluoroethene									-490.5				
$C_2HF_3O_2$	Trifluoroacetic acid				-1069.9					-1031.4				
C_2HF_5	Pentafluoroethane									-1100.4				
C_2H_2	Acetylene									227.4	209.9	200.9	44.0	
$C_2H_2BrF_3$	2-Bromo-1,1,1-trifluoroethane									-694.5				
$C_2H_2Br_2$	cis-1,2-Dibromoethene										311.3	68.8		
$C_2H_2Br_2$	trans-1,2-Dibromoethene										313.5	70.3		
$C_2H_2Br_2Cl_2$	1,2-Dibromo-1,2-dichloroethane								-36.9					
$C_2H_2Br_4$	1,1,2,2-Tetrabromoethane						165.7							
$C_2H_2ClF_3$	2-Chloro-1,1,1-trifluoroethane										326.5	89.1		
$C_2H_2Cl_2$	1,1-Dichloroethene				-23.9	24.1	201.5	111.3	2.8	25.4	289.0	67.1		
$C_2H_2Cl_2$	cis-1,2-Dichloroethene				-26.4		198.4	116.4	4.6		289.6	65.1		
$C_2H_2Cl_2$	trans-1,2-Dichloroethene				-24.3	27.3	195.9	116.8	5.0	28.6	290.0	66.7		
$C_2H_2Cl_2O$	Chloroacetyl chloride				-283.7					-244.8				
$C_2H_2Cl_2O_2$	Dichloroacetic acid				-496.3									
$C_2H_2Cl_3NO$	2,2,2-Trichloroacetamide	-358.0												
$C_2H_2Cl_4$	1,1,1,2-Tetrachloroethane										356.0	102.7		
$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane				-195.0		246.9	162.3	-149.2		362.8	100.8		
$C_2H_2F_2$	1,1-Difluoroethene									-335.0		266.2	60.1	
$C_2H_2F_2$	cis-1,2-Difluoroethene										268.3	58.2		
$C_2H_2F_3I$	1,1,1-Trifluoro-2-iodoethane								-644.5					
$C_2H_2I_2$	cis-1,2-Diidoethene								-207.4					
C_2H_2O	Ketene				-67.9				-47.5	-48.3	247.6	51.8		
$C_2H_2O_2$	Glyoxal								-212.0	-189.7	272.5	60.6		
$C_2H_2O_4$	Oxalic acid	-829.9	109.8	91.0					-731.8	-662.7	320.6	86.2		
$C_2H_2O_5Sr$	Strontium formate	-1393.3												
C_2H_2S	Thiirene								300.0	275.8	255.3	54.7		
C_2H_3Br	Bromoethene								79.2	81.8	275.8	55.5		
C_2H_3BrO	Acetyl bromide				-223.5					-190.4				
$C_2H_3BrO_2$	Bromoacetic acid									-383.5	-338.3	337.0	80.5	
C_2H_3Cl	Chloroethene	-94.1		59.4	14.6				37.2	53.6	264.0	53.7		
$C_2H_3ClF_2$	1-Chloro-1,1-difluoroethane				-272.9	-208.0	200.8	117.0	-242.8	-205.8	295.1	82.5		
C_2H_3ClO	Acetyl chloride				-272.9	-208.0	200.8	117.0	-242.8	-205.8	295.1	67.8		
$C_2H_3ClO_2$	Chloroacetic acid	-509.7							-427.6	-368.5	325.9	78.8		

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_2H_3Cl_2F$	1,1-Dichloro-1-fluoroethane					-177.4		227.4	144.3	-144.4		320.2	88.7
$C_2H_3Cl_3$	1,1,1-Trichloroethane					-190.8		232.6	150.9	-151.3		323.1	93.3
$C_2H_3Cl_3$	1,1,2-Trichloroethane									-138.8		337.2	89.0
C_2H_3F	Fluoroethene					-467.2				-442.1			
C_2H_3FO	Acetyl fluoride									-744.6		279.9	78.2
$C_2H_3F_3$	1,1,1-Trifluoroethane									-730.7			
$C_2H_3F_3$	1,1,2-Trifluoroethane									-888.4			
$C_2H_3F_3O$	2,2,2-Trifluoroethanol					-932.4						285.0	57.9
C_2H_3I	Iodoethene												
C_2H_3IO	Acetyl iodide					-163.5				-126.4			
$C_2H_3KO_2$	Potassium acetate	-723.0											
C_2H_3N	Acetonitrile					40.6	86.5	149.6	91.5	74.0	91.9	243.4	52.2
C_2H_3N	Isocyanomethane					130.8	159.5	159.0		163.5	165.7	246.9	52.9
C_2H_3NO	Methyl isocyanate					-92.0							
$C_2H_3NO_2$	Nitroethene									33.3		300.5	73.7
$C_2H_3NO_3$	Oxamic acid	-661.2								-552.3			
C_2H_3NS	Methyl isothiocyanate	79.4											
$C_2H_3NaO_2$	Sodium acetate	-708.8	-607.2	123.0	79.9								
C_2H_4	Ethylene									52.4	68.4	219.3	42.9
C_2H_4BrCl	1-Bromo-2-chloroethane									130.1			
$C_2H_4Br_2$	1,1-Dibromoethane					-66.2						327.7	80.8
$C_2H_4Br_2$	1,2-Dibromoethane					-79.2		223.3	136.0	-37.5			
C_2H_4ClF	1-Chloro-1-fluoroethane									-313.4			
$C_2H_4Cl_2$	1,1-Dichloroethane					-158.4	-73.8	211.8	126.3	-127.7	-70.8	305.1	76.2
$C_2H_4Cl_2$	1,2-Dichloroethane					-166.8				128.4	-126.4	308.4	78.7
$C_2H_4F_2$	1,1-Difluoroethane									-497.0		282.5	67.8
$C_2H_4I_2$	1,2-Diiodoethane	9.3								75.0			
$C_2H_4N_2O_2$	Oxamide	-504.4								-387.1			
$C_2H_4N_2O_2$	Ethanedral dioxime	-90.5											
$C_2H_4N_2O_4$	1,1-Dinitroethane					-148.2							
$C_2H_4N_2O_4$	1,2-Dinitroethane					-165.2							
$C_2H_4N_2S_2$	Ethanedithioamide	-20.8								83.0			
$C_2H_4N_4$	1 <i>H</i> -1,2,4-Triazol-3-amine	76.8											
C_2H_5O	Acetaldehyde					-192.2	-127.6	160.2	89.0	-166.2	-133.0	263.8	55.3
C_2H_5O	Oxirane					-78.0	-11.8	153.9	88.0	-52.6	-13.0	242.5	47.9
C_2H_5OS	Thioacetic acid					-216.9				-175.1			
$C_2H_5O_2$	Acetic acid					-484.3	-389.9	159.8	123.3	-432.2	-374.2	283.5	63.4
$C_2H_5O_2$	Methyl formate					-386.1				119.1	-357.4	285.3	64.4
$C_2H_5O_3$	Peroxyacetic acid											82.4	
$C_2H_5O_3$	Glycolic acid									-583.0	-504.9	318.6	87.1
C_2H_5S	Thiirane					51.6				82.0	96.8	255.2	53.3
C_2H_5Si	Ethynylsilane											269.4	72.6
C_2H_5Br	Bromoethane					-90.5	-25.8	198.7	100.8	-61.9	-23.9	286.7	64.5
C_2H_5Cl	Chloroethane					-136.8	-59.3	190.8	104.3	-112.1	-60.4	276.0	62.8
C_2H_5ClO	2-Chloroethanol					-295.4							
C_2H_5F	Fluoroethane											264.5	58.6
C_2H_5I	Iodoethane					-40.0	14.7	211.7	115.1	-8.1	19.2	306.0	66.9
C_2H_5N	Ethyleneimine					91.9				126.5			
C_2H_5NO	Acetamide	-317.0		115.0	91.3					-238.3			
C_2H_5NO	<i>N</i> -Methylformamide									123.8			
$C_2H_5NO_2$	Nitroethane					-143.9				134.4	-103.8	320.5	79.0
$C_2H_5NO_2$	Glycine	-528.5								-392.1			
$C_2H_5NO_3$	2-Nitroethanol					-350.7							
$C_2H_5NO_3$	Ethyl nitrate					-190.4				-154.1			
C_2H_5NS	Thioacetamide	-71.7								11.4			
C_2H_6	Ethane									-84.0	-32.0	229.2	52.5
C_2H_6Cd	Dimethyl cadmium					63.6	139.0	201.9	132.0	101.6	146.9	303.0	
C_2H_6Hg	Dimethyl mercury					59.8	140.3	209.0		94.4	146.1	306.0	83.3
$C_2H_6N_2O$	<i>N</i> -Methylurea	-332.8											
$C_2H_6N_2O_2$	1,2-Hydrazinedicarboxamide	-498.7											
$C_2H_6N_2O_2$	Oxalyl dihydrazide	-295.2											
C_2H_6O	Ethanol					-277.6	-174.8	160.7	112.3	-234.8	-167.9	281.6	65.6
C_2H_6O	Dimethyl ether					-203.3				-184.1	-112.6	266.4	64.4
C_2H_6OS	Dimethyl sulfoxide					-204.2	-99.9	188.3	153.0	-151.3			
$C_2H_6O_2$	Ethylene glycol					-460.0		163.2	148.6	-392.2		303.8	82.7
$C_2H_6O_2S$	Dimethyl sulfone	-450.1	-302.4	142.0						-373.1	-272.7	310.6	100.0

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_3H_2N_2O_3$	Oxymethurea	-717.0				-302.6		193.6	143.9	-255.1		322.6	85.6
C_3H_6O	1-Propanol					-318.1		181.1	156.5	-272.6		309.2	89.3
C_3H_8O	2-Propanol					-501.0		190.8		-216.4		309.2	93.3
C_3H_8O	Ethyl methyl ether					-480.8				-429.8			
$C_3H_8O_2$	1,2-Propylene glycol									-408.0			
$C_3H_8O_2$	1,3-Propylene glycol												
$C_3H_8O_2$	Ethylene glycol monomethyl ether								171.1				
$C_3H_8O_2$	Dimethoxymethane					-377.8		244.0	162.0	-348.5			
$C_3H_8O_3$	Glycerol					-669.6		206.3	218.9	-577.9			
C_3H_8S	1-Propanethiol					-99.9		242.5	144.6	-67.8			
C_3H_8S	2-Propanethiol					-105.9		233.5	145.3	-76.2			
C_3H_8S	Ethyl methyl sulfide					-91.6		239.1	144.6	-59.6			
$C_3H_8S_2$	1,3-Propanedithiol					-79.4				-29.8			
C_3H_8Al	Trimethyl aluminum					-136.4	-9.9	209.4	155.6	-74.1			
C_3H_8B	Trimethylborane					-143.1	-32.1	238.9		-124.3	-35.9	314.7	88.5
$C_3H_8BO_3$	Trimethyl borate								189.9				
C_3H_8ClSi	Trimethylchlorosilane					-382.8	-246.4	278.2		-352.8	-243.5	369.1	
C_3H_9N	Propylamine					-101.5			164.1	-70.1	39.9	325.4	91.2
C_3H_9N	Isopropylamine					-112.3		218.3	163.8	-83.7	32.2	312.2	97.5
C_3H_9N	Trimethylamine					-45.7		208.5	137.9	-23.6		287.1	91.8
$C_3H_{10}CIN$	Propylamine hydrochloride	-354.7											
$C_3H_{10}CIN$	Trimethylamine hydrochloride	-282.9											
$C_3H_{10}N_2$	1,2-Propanediamine, (\pm)					-97.8				-53.6			
$C_3H_{10}Si$	Trimethylsilane										331.0	117.9	
$C_3H_{12}BN$	Trimethylamine borane	-142.5	70.7	187.0									
$C_3H_{12}BN$	Aminotrimethylboron	-284.1	-79.3	218.0									
C_4Cl_6	Hexachloro-1,3-butadiene					-24.5							
C_4F_8	Perfluorocyclobutane									-1542.6			
C_4F_{10}	Perfluorobutane								127.2				
$C_4H_2N_2$	trans-2-Butenedinitrile	268.2								340.2			
$C_4H_2O_3$	Maleic anhydride	-469.8								-398.3			
$C_4H_4O_4$	2-Butynedioic acid	-577.3											
$C_4H_7NO_3$	2-Nitrofuran	-104.1								-28.8			
$C_4H_8BrNO_2$	N-Bromosuccinimide	-335.9											
$C_4H_8ClNO_2$	N-Chlorosuccinimide	-357.9											
$C_4H_8N_2$	Succinonitrile	139.7	191.6	145.6						209.7			
$C_4H_8N_2$	Pyrazine	139.8								196.1			
$C_4H_8N_2$	Pyrimidine					145.9				195.7			
$C_4H_8N_2$	Pyridazine					224.9				278.3			
$C_4H_8N_2O_2$	Uracil	-429.4		120.5						-302.9			
$C_4H_8N_2O_3$	Barbituric acid	-634.7											
C_4H_8O	Furan					-62.3		177.0	114.8	-34.8	267.2	65.4	
$C_4H_8O_2$	Diketene					-233.1				-190.3			
$C_4H_8O_3$	Succinic anhydride	-608.6								-527.9			
$C_4H_8O_4$	Maleic acid	-789.4	160.8	137.0						-679.4			
$C_4H_8O_4$	Fumaric acid	-811.7	168.0	142.0						-675.8			
C_4H_8S	Thiophene					80.2		181.2	123.8	114.9	126.1	278.8	72.8
C_4H_9N	trans-2-Butenenitrile					95.1				134.3			
C_4H_9N	3-Butenenitrile					117.8				159.7			
C_4H_9N	2-Methylacrylonitrile								126.3				
C_4H_9N	Pyrrole					63.1		156.4	127.7	108.2			
C_4H_9N	Cyclopropane carbonitrile					140.8				182.8			
$C_4H_9NO_2$	Succinimide	-459.0								-375.4			
C_4H_9NS	4-Methylthiazole					67.9				111.8			
$C_4H_9N_3O$	Cytosine	-221.3		132.6									
C_4H_6	1,2-Butadiene					138.6				162.3			
C_4H_6	1,3-Butadiene					88.5		199.0	123.6	110.0			
C_4H_6	1-Butyne					141.4				165.2			
C_4H_6	2-Butyne					119.1				145.7			
C_4H_6	Cyclobutene									156.7			
$C_4H_8N_2O_2$	2,5-Piperazinedione	-446.5											
C_4H_8O	Divinyl ether					-39.8				-13.6			
C_4H_8O	trans-2-Butenal					-138.7				-100.6			
$C_4H_8O_2$	trans-2-Butenoic acid												
$C_4H_8O_2$	Methacrylic acid								161.1				
$C_4H_8O_2$	Vinyl acetate					-349.2				-314.4			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_4H_6O_2$	Methyl acrylate					-362.2		239.5	158.8	-333.0			
$C_4H_6O_2$	γ -Butyrolactone					-420.9			141.4	-366.5			
$C_4H_6O_3$	Acetic anhydride					-624.4				-572.5			
$C_4H_6O_3$	Propylene carbonate					-613.2			218.6	-582.5			
$C_4H_6O_4$	Succinic acid	-940.5		167.3	153.1					-823.0			
$C_4H_6O_4$	Dimethyl oxalate	-756.3								-708.9			
C_4H_6S	2,3-Dihydrothiophene					52.9				90.7	133.5	303.5	79.8
C_4H_6S	2,5-Dihydrothiophene					47.0				86.9	131.6	297.1	83.3
C_4H_7ClO	2-Chloroethyl vinyl ether					-208.1				-170.1			
$C_4H_7ClO_2$	2-Chlorobutanoic acid					-575.5							
$C_4H_7ClO_2$	3-Chlorobutanoic acid					-556.3							
$C_4H_7ClO_2$	4-Chlorobutanoic acid					-566.3							
$C_4H_7ClO_2$	Propyl chlorocarbonate					-533.4				-492.7			
C_4H_7N	Butanenitrile					-5.8				33.6			
C_4H_7N	2-Methylpropanenitrile					-13.8				23.4			
C_4H_7NO	Acetone cyanohydrin					-120.9							
C_4H_7NO	2-Pyrrolidone					-286.2							
C_4H_7NO	2-Methyl-2-oxazoline					-169.5				-130.5			
$C_4H_7NO_4$	Iminodiacetic acid	-932.6											
$C_4H_7NO_4$	Ethyl nitroacetate					-487.1							
$C_4H_7NO_4$	L-Aspartic acid	-973.3											
$C_4H_7N_3O$	Creatinine	-238.5											
C_4H_8	1-Butene					-20.8		227.0	118.0	0.1			
C_4H_8	cis-2-Butene					-29.8		219.9	127.0	-7.1			
C_4H_8	trans-2-Butene					-33.3				-11.4			
C_4H_8	Isobutene					-37.5				-16.9			
C_4H_8	Cyclobutane					3.7				27.7			
C_4H_8	Methylcyclopropane					1.7							
$C_4H_8Br_2$	1,2-Dibromobutane					-142.1				-91.6			
$C_4H_8Br_2$	1,3-Dibromobutane					-148.0							
$C_4H_8Br_2$	1,4-Dibromobutane					-140.3				-87.8			
$C_4H_8Br_2$	2,3-Dibromobutane					-139.6				-102.0			
$C_4H_8Br_2$	1,2-Dibromo-2-methylpropane					-156.6				-113.3			
$C_4H_8Cl_2$	1,3-Dichlorobutane					-237.3				-195.0			
$C_4H_8Cl_2$	1,4-Dichlorobutane					-229.8				-183.4			
$C_4H_8Cl_2O$	Bis(2-chloroethyl) ether							220.9					
$C_4H_8I_2$	1,4-Diiodobutane					-30.0							
$C_4H_8N_2O_2$	Succinamide	-581.2											
$C_4H_8N_2O_2$	Dimethylglyoxime	-199.7											
$C_4H_8N_2O_3$	L-Asparagine	-789.4											
$C_4H_8N_2O_3$	N-Glycylglycine	-747.7											
$C_4H_8N_2O_4$	1,4-Dinitrobutane					-237.5							
$C_4H_8N_8O_8$	Cyclotetramethylenetrinitramine								187.9		568.8	275.5	
C_4H_8O	Ethyl vinyl ether					-167.4				-140.8			
C_4H_8O	1,2-Epoxybutane					-168.9		230.9	147.0				
C_4H_8O	Butanal					-239.2		246.6	163.7	-204.8		343.7	103.4
C_4H_8O	Isobutanal					-247.3				-215.7			
C_4H_8O	2-Butanone					-273.3		239.1	158.7	-238.5		339.9	101.7
C_4H_8O	Tetrahydrofuran					-216.2		204.3	124.0	-184.1		302.4	76.3
C_4H_8OS	S-Ethyl thioacetate					-268.2				-228.1			
$C_4H_8O_2$	Butanoic acid					-533.8		222.2	178.6	-475.9			
$C_4H_8O_2$	2-Methylpropanoic acid								173.0				
$C_4H_8O_2$	Propyl formate					-500.3				-462.7			
$C_4H_8O_2$	Ethyl acetate					-479.3		257.7	170.7	-443.6			
$C_4H_8O_2$	Methyl propanoate								171.2				
$C_4H_8O_2$	1,3-Dioxane					-379.7			143.9	-340.6			
$C_4H_8O_2$	1,4-Dioxane					-353.9		270.2	152.1	-315.3			
$C_4H_8O_2$	2-Methyl-1,3-dioxolane					-386.9				-352.0			
$C_4H_8O_2S$	Sulfolane								180.0				
C_4H_8S	Tetrahydrothiophene					-72.9				-34.1	45.8	309.6	92.5
$C_4H_8S_2$	1,3-Dithiane								-10.0	72.4	333.5	110.4	
$C_4H_8S_2$	1,4-Dithiane								0.0	84.5	326.2	109.7	
C_4H_9Br	1-Bromobutane					-143.8				-107.1			
C_4H_9Br	2-Bromobutane, (±)					-154.9				-120.3			
C_4H_9Br	2-Bromo-2-methylpropane					-164.4				-132.4			
C_4H_9Cl	1-Chlorobutane					-188.1				-154.4			

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$C_4H_{12}BrN$	Tetramethylammonium bromide	-251.0											
$C_4H_{12}CIN$	Diethylamine hydrochloride	-358.6											
$C_4H_{12}CIN$	Tetramethylammonium chloride	-276.4											
$C_4H_{12}IN$	Tetramethylammonium iodide	-203.9											
$C_4H_{12}N_2$	2-Methyl-1,2-propanediamine				-133.9					-90.3			
$C_4H_{12}Pb$	Tetramethyl lead				97.9					135.9			
$C_4H_{12}Si$	Tetramethylsilane				-264.0	-100.0	277.3	204.1	-239.1	-99.9	359.0	143.9	
$C_4H_{12}Sn$	Tetramethylstannane				-52.3					-18.8			
$C_4H_{13}N_3$	Bis(2-aminoethyl)amine							254.0					
C_4N_2	2-Butynedinitrile				500.4					529.2			
C_5NiO_4	Nickel carbonyl				-633.0	-588.2	313.4	204.6	-602.9	-587.2	410.6	145.2	
C_5FeO_5	Iron pentacarbonyl				-774.0	-705.3	338.1	240.6					
$C_5H_2F_6O_2$	Hexafluoroacetyleacetone	-2286.7											
$C_5H_5NO_5$	5-Nitro-2-furancarboxylic acid	-516.8											
$C_5H_4N_4$	1 <i>H</i> -Purine	169.4											
$C_5H_4N_4O$	Hypoxanthine	-110.8		145.6	134.5								
$C_5H_4N_4O_2$	Xanthine	-379.6		161.1	151.3								
$C_5H_4N_4O_3$	Uric acid	-618.8		173.2	166.1								
$C_5H_5O_2$	Furfural				-201.6			163.2	-151.0				
$C_5H_6O_3$	2-Furancarboxylic acid	-498.4							-390.0				
$C_5H_6O_3$	3-Methyl-2,5-furandione				-504.5				-447.2				
$C_5H_5F_3O_2$	1,1,1-Trifluoro-2,4-pentanedione				-1040.2				-993.3				
C_5H_5N	Pyridine				100.2			132.7	140.4				
C_5H_5NO	1 <i>H</i> -Pyrrole-2-carboxaldehyde	-106.4											
$C_5H_5N_5$	Adenine	96.9		147.0					205.7				
$C_5H_5N_5O$	Guanine	-183.9											
C_5H_6	<i>cis</i> -3-Penten-1-yne				226.5								
C_5H_6	<i>trans</i> -3-Penten-1-yne				228.2								
C_5H_6	1,3-Cyclopentadiene				105.9				134.3				
$C_5H_6N_2O_2$	Thymine	-462.8		150.8					-328.7				
$C_5H_6O_2$	Furfuryl alcohol				-276.2			204.0	-211.8				
$C_5H_6O_4$	<i>trans</i> -1-Propene-1,2-dicarboxylic acid	-824.4											
C_5H_6S	2-Methylthiophene			44.6		218.5	149.8	83.5					
C_5H_6S	3-Methylthiophene			43.1				82.5					
C_5H_7N	<i>trans</i> -3-Pentenenitrile			80.9				125.7					
C_5H_7N	Cyclobutanecarbonitrile			103.0				147.4					
C_5H_7N	1-Methylpyrrole			62.4				103.1					
C_5H_7N	2-Methylpyrrole			23.3				74.0					
C_5H_7N	3-Methylpyrrole			20.5				70.2					
$C_5H_7NO_2$	Ethyl cyanoacetate					220.2							
C_5H_8	1,2-Pentadiene						140.7						
C_5H_8	<i>cis</i> -1,3-Pentadiene						81.4						
C_5H_8	<i>trans</i> -1,3-Pentadiene						76.1						
C_5H_8	1,4-Pentadiene						105.7						
C_5H_8	2,3-Pentadiene						133.1						
C_5H_8	3-Methyl-1,2-butadiene			101.2									
C_5H_8	2-Methyl-1,3-butadiene			48.2		229.3	152.6	75.5					
C_5H_8	Cyclopentene			4.3		201.2	122.4	34.0					
C_5H_8	Spiropentane			157.5		193.7	134.5	185.2					
C_5H_8	Methylenecyclobutane			93.8				121.6					
$C_5H_8NO_{12}$	Pentaerythritol tetranitrate	-538.6						-387.0		614.7	294.8		
C_5H_9O	Cyclopentanone			-235.9				-192.1					
$C_5H_9O_2$	4-Pentenoic acid			-430.6									
$C_5H_9O_2$	Allyl acetate					184.1							
$C_5H_9O_2$	Ethyl acrylate			-370.6				-354.2					
$C_5H_9O_2$	Methyl <i>trans</i> -2-butenoate			-382.9				-341.9					
$C_5H_9O_2$	Methyl methacrylate					191.2							
$C_5H_9O_2$	2,4-Pentanedione			-423.8				-382.0					
$C_5H_9O_2$	Dihydro-4-methyl-2(3 <i>H</i>)-furanone			-461.3				-406.5					
$C_5H_9O_2$	Tetrahydro-2 <i>H</i> -pyran-2-one			-436.7				-379.6					
$C_5H_9O_3$	Methyl acetoacetate			-623.2									
$C_5H_{10}O_4$	Glutaric acid	-960.0											
$C_5H_9ClO_2$	Propyl chloroacetate			-515.5				-467.0					
C_5H_9N	Pentanenitrile			-33.1				10.5					
C_5H_9N	2,2-Dimethylpropanenitrile			-39.8		232.0	179.4	-2.3					

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

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_5H_{11}NO_2$	5-Aminopentanoic acid	-604.1								-460.0			
$C_5H_{11}NO_2S$	L-Methionine	-577.5								-413.5			
$C_5H_{11}NO_4$	2-Ethyl-2-nitro-1,3-propanediol	-606.4											
C_5H_{12}	Pentane				-173.5			167.2		-146.9			
C_5H_{12}	Isopentane				-178.4		260.4	164.8		-153.6			
C_5H_{12}	Neopentane				-190.2					-168.0			
$C_5H_{12}N_2O$	Butylurea	-419.5											
$C_5H_{12}N_2O$	tert-Butylurea	-417.4											
$C_5H_{12}N_2O$	N,N-Diethylurea	-372.2											
$C_5H_{12}N_2O$	Tetramethylurea				-262.2					44.9			
$C_5H_{12}N_2S$	Tetramethylthiourea	-38.1											
$C_5H_{12}O$	1-Pentanol				-351.6			208.1		-294.6			
$C_5H_{12}O$	2-Pentanol				-365.2					-311.0			
$C_5H_{12}O$	3-Pentanol				-368.9			239.7		-314.9			
$C_5H_{12}O$	2-Methyl-1-butanol, (\pm)				-356.6					-301.4			
$C_5H_{12}O$	3-Methyl-1-butanol				-356.4					-300.7			
$C_5H_{12}O$	2-Methyl-2-butanol				-379.5			247.1		-329.3			
$C_5H_{12}O$	3-Methyl-2-butanol, (\pm)				-366.6					-313.5			
$C_5H_{12}O$	2,2-Dimethyl-1-propanol				-399.4								
$C_5H_{12}O$	Butyl methyl ether				-290.6		295.3	192.7		-258.1			
$C_5H_{12}O$	Methyl tert-butyl ether				-313.6		265.3	187.5		-283.7			
$C_5H_{12}O$	Ethyl propyl ether				-303.6		295.0	197.2		-272.0			
$C_5H_{12}O_2$	1,5-Pentanediol				-528.8					-450.8			
$C_5H_{12}O_2$	2,2-Dimethyl-1,3-propanediol	-551.2											
$C_5H_{12}O_2$	Diethoxymethane				-450.5					-414.7			
$C_5H_{12}O_2$	1,1-Dimethoxypropane				-443.6								
$C_5H_{12}O_2$	2,2-Dimethoxypropane				-459.4					-429.9			
$C_5H_{12}O_3$	Diethylene glycol monomethyl ether							271.1					
$C_5H_{12}O_3$	2-(Hydroxymethyl)-2-methyl-1,3-propanediol	-744.6											
$C_5H_{12}O_4$	Pentaerythritol	-920.6								-776.7			
$C_5H_{12}O_5$	Xylitol	-1118.5											
$C_5H_{12}S$	1-Pantanethiol				-151.3					-110.0			
$C_5H_{12}S$	2-Methyl-1-butanethiol, (+)				-154.4					-114.9			
$C_5H_{12}S$	3-Methyl-1-butanethiol				-154.4					-114.9			
$C_5H_{12}S$	2-Methyl-2-butanethiol				-162.8		290.1	198.1		-127.1			
$C_5H_{12}S$	3-Methyl-2-butanethiol				-158.8					-121.3			
$C_5H_{12}S$	2,2-Dimethyl-1-propanethiol				-165.4					-129.0			
$C_5H_{12}S$	Butyl methyl sulfide				-142.9		307.5	200.9		-102.4			
$C_5H_{12}S$	tert-Butyl methyl sulfide				-157.1		276.1	199.9		-121.3			
$C_5H_{12}S$	Ethyl propyl sulfide				-144.8		309.5	198.4		-104.8			
$C_5H_{12}S$	Ethyl isopropyl sulfide				-156.1					-118.3			
$C_5H_{13}N$	Pentylamine							218.0					
$C_5H_{14}N_2$	N,N,N',N'-Tetramethylmethanediamine				-51.1					-18.2			
C_6ClF_5	Chloropentafluorobenzene	-858.4								-809.3			
C_6Cl_6	Hexachlorobenzene	-127.6	260.2	201.2						-35.5			
C_6F_6	Hexafluorobenzene				-991.3		280.8	221.6		-955.4			
C_6F_{10}	Perfluorocyclohexene				-1963.5					-1932.7			
C_6F_{12}	Perfluorocyclohexane				-2406.3					-2370.4			
C_6HCl_5O	Pentachlorophenol	-292.5	253.2	202.0									
C_6HF_5	Pentafluorobenzene	-852.7			-841.8					-806.5			
C_6HF_5O	Pentafluorophenol	-1024.1			-1007.7								
$C_6H_4F_4$	1,2,4,5-Tetrafluorobenzene				-683.8								
$C_6H_3Cl_3$	1,2,3-Trichlorobenzene	-70.8								3.8			
$C_6H_3Cl_3$	1,2,4-Trichlorobenzene				-63.1					-8.1			
$C_6H_3Cl_3$	1,3,5-Trichlorobenzene	-78.4								-13.4			
$C_6H_3N_3O_6$	1,3,5-Trinitrobenzene	-37.0		214.6									
$C_6H_3N_3O_7$	2,4,6-Trinitrophenol	-217.9		239.7									
$C_6H_3N_3O_8$	2,4,6-Trinitro-1,3-benzenediol	-467.5											
$C_6H_3ClNO_2$	1-Chloro-4-nitrobenzene	-48.7		250.2									
$C_6H_4Cl_2$	<i>o</i> -Dichlorobenzene				-17.5			162.4		30.2			
$C_6H_4Cl_2$	<i>m</i> -Dichlorobenzene				-20.7					25.7			
$C_6H_4Cl_2$	<i>p</i> -Dichlorobenzene	-42.3	175.4	147.8						22.5			
$C_6H_4Cl_2O$	2,4-Dichlorophenol	-226.4								-156.3			
$C_6H_4F_2$	<i>o</i> -Difluorobenzene				-330.0		222.6	159.0		-293.8			
$C_6H_4F_2$	<i>m</i> -Difluorobenzene				-343.9		223.8	159.1		-309.2			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C_6H_{10}	1,5-Hexadiene				54.1					84.2			
C_6H_{10}	3,3-Dimethyl-1-butyne				78.4								
C_6H_{10}	Cyclohexene				-38.5			214.6	148.3	-5.0			
C_6H_{10}	1-Methylcyclopentene				-36.4					-3.8			
C_6H_{10}	3-Methylcyclopentene				-23.7					7.4			
C_6H_{10}	4-Methylcyclopentene				-17.6					14.6			
$C_6H_{10}Cl_2O_2$	Butyl dichloroacetate				-550.1					-497.8			
$C_6H_{10}O$	Cyclohexanone				-271.2			182.2	-226.1				
$C_6H_{10}O$	2-Methylcyclopentanone				-265.2								
$C_6H_{10}O$	Mesityl oxide							212.5					
$C_6H_{10}O_2$	Ethyl <i>trans</i> -2-butenoate				-420.0					-375.6			
$C_6H_{10}O_2$	Methyl cyclobutanecarboxylate				-395.0					-350.2			
$C_6H_{10}O_3$	Ethyl acetoacetate							248.0					
$C_6H_{10}O_3$	Propanoic anhydride				-679.1					-626.5			
$C_6H_{10}O_4$	Adipic acid	-994.3											
$C_6H_{10}O_4$	Diethyl oxalate				-805.5					-742.0			
$C_6H_{10}O_4$	Ethylene glycol diacetate							310.0					
$C_6H_{11}Cl$	Chlorocyclohexane				-207.2					-163.7			
$C_6H_{11}ClO_2$	Ethyl 4-chlorobutanoate				-566.5					-513.8			
$C_6H_{11}ClO_2$	Propyl 3-chloropropanoate				-537.6					-485.7			
$C_6H_{11}ClO_2$	Butyl chloroacetate				-538.4					-487.4			
$C_6H_{11}NO$	Caprolactam	-329.4			156.8					-239.6			
$C_6H_{11}NO$	1-Methyl-2-piperidinone				-293.0								
C_6H_{12}	1-Hexene				-74.2			295.2	183.3	-43.5			
C_6H_{12}	<i>cis</i> -2-Hexene				-83.9					-52.3			
C_6H_{12}	<i>trans</i> -2-Hexene				-85.5					-53.9			
C_6H_{12}	<i>cis</i> -3-Hexene				-78.9					-47.6			
C_6H_{12}	<i>trans</i> -3-Hexene				-86.1					-54.4			
C_6H_{12}	2-Methyl-1-pentene				-90.0					-59.4			
C_6H_{12}	3-Methyl-1-pentene				-78.2					-49.5			
C_6H_{12}	4-Methyl-1-pentene				-80.0					-51.3			
C_6H_{12}	2-Methyl-2-pentene				-98.5					-66.9			
C_6H_{12}	3-Methyl- <i>cis</i> -2-pentene				-94.5					-62.3			
C_6H_{12}	3-Methyl- <i>trans</i> -2-pentene				-94.6					-63.1			
C_6H_{12}	4-Methyl- <i>cis</i> -2-pentene				-87.0					-57.5			
C_6H_{12}	4-Methyl- <i>trans</i> -2-pentene				-91.6					-61.5			
C_6H_{12}	2-Ethyl-1-butene				-87.1					-56.0			
C_6H_{12}	2,3-Dimethyl-1-butene				-93.2					-62.4			
C_6H_{12}	3,3-Dimethyl-1-butene				-87.5					-60.3			
C_6H_{12}	2,3-Dimethyl-2-butene				-101.4			270.2	174.7	-68.1			
C_6H_{12}	Cyclohexane				-156.4				154.9	-123.4			
C_6H_{12}	Methylcyclopentane				-137.9					-106.2			
C_6H_{12}	Ethylocyclobutane				-59.0					-27.5			
C_6H_{12}	1,1,2-Trimethylcyclopropane				-96.2								
$C_6H_{12}N_2O_4S_2$	<i>L</i> -Cystine	-1032.7											
$C_6H_{12}N_2S_4$	Thiram	40.2			301.7								
$C_6H_{12}O$	Butyl vinyl ether				-218.8				232.0	-182.6			
$C_6H_{12}O$	Hexanal							280.3	210.4				
$C_6H_{12}O$	2-Hexanone				-322.0				213.3	-278.9			
$C_6H_{12}O$	3-Hexanone				-320.2			305.3	216.9	-277.6			
$C_6H_{12}O$	4-Methyl-2-pentanone								213.3				
$C_6H_{12}O$	2-Methyl-3-pentanone				-325.9					-286.0			
$C_6H_{12}O$	3,3-Dimethyl-2-butanol				-328.6					-290.6			
$C_6H_{12}O$	Cyclohexanol				-348.2			208.2		-286.2			
$C_6H_{12}O$	<i>cis</i> -2-Methylcyclopentanol				-345.5								
$C_6H_{12}O_2$	Hexanoic acid				-583.8					-511.9			
$C_6H_{12}O_2$	Butyl acetate				-529.2			227.8		-485.3			
$C_6H_{12}O_2$	<i>tert</i> -Butyl acetate				-554.5			231.0		-516.5			
$C_6H_{12}O_2$	Isobutyl acetate							233.8					
$C_6H_{12}O_2$	Ethyl butanoate							228.0					
$C_6H_{12}O_2$	Methyl pentanoate				-514.2			229.3		-471.1			
$C_6H_{12}O_2$	Methyl 2,2-dimethylpropanoate				-530.0			257.9		-491.2			
$C_6H_{12}O_2$	Diacetone alcohol							221.3					
$C_6H_{12}O_3$	Ethylene glycol monoethyl ether acetate							376.0					
$C_6H_{12}O_3$	Paraldehyde				-673.1				631.7				

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_6H_{12}O_6$	β -D-Fructose	-1265.6											
$C_6H_{12}O_6$	D-Galactose	-1286.3											
$C_6H_{12}O_6$	α -D-Glucose	-1273.3											
$C_6H_{12}O_6$	D-Mannose	-1263.0											
$C_6H_{12}O_6$	L-Sorbose	-1271.5											
$C_6H_{12}S$	Thiepane									-65.8	79.4	363.5	131.3
$C_6H_{12}S$	Cyclohexanethiol					-140.7	255.6	192.6	-96.2				
$C_6H_{12}S$	Cyclopentyl methyl sulfide					-109.8			-64.7				
$C_6H_{13}Br$	1-Bromohexane					-194.2	453.0	204.0	-148.3				
$C_6H_{13}Cl$	2-Chlorohexane					-246.1			-204.3				
$C_6H_{13}N$	Cyclohexylamine					-147.6			-104.0				
$C_6H_{13}N$	2-Methylpiperidine, (\pm)					-124.9			-84.4				
$C_6H_{13}NO$	Hexanamide	-423.0								-324.2			
$C_6H_{13}NO$	N-Butylacetamide					-380.9			-305.9				
$C_6H_{13}NO_2$	DL-Leucine	-640.6											
$C_6H_{13}NO_2$	D-Leucine	-637.3											
$C_6H_{13}NO_2$	L-Leucine	-637.4		200.1						-486.8			
$C_6H_{13}NO_2$	DL-Isoleucine	-635.3											
$C_6H_{13}NO_2$	L-Isoleucine	-637.8											
$C_6H_{13}NO_2$	L-Norleucine	-639.1											
$C_6H_{13}NO_2$	6-Aminohexanoic acid	-637.3											
C_6H_{14}	Hexane					-198.7			195.6	-166.9			
C_6H_{14}	2-Methylpentane					-204.6	290.6	193.7	-174.6				
C_6H_{14}	3-Methylpentane					-202.4	292.5	190.7	-171.9				
C_6H_{14}	2,2-Dimethylbutane					-213.8	272.5	191.9	-185.9				
C_6H_{14}	2,3-Dimethylbutane					-207.4	287.8	189.7	-178.1				
$C_6H_{14}N_2$	Azopropane					11.5				51.3			
$C_6H_{14}N_2O_2$	DL-Lysine	-678.7											
$C_6H_{14}N_4O_2$	D-Arginine	-623.5	250.6	232.0									
$C_6H_{14}O$	1-Hexanol					-377.5	287.4	240.4	-315.9				
$C_6H_{14}O$	2-Hexanol					-392.0			-333.5				
$C_6H_{14}O$	3-Hexanol					-392.4			286.2				
$C_6H_{14}O$	2-Methyl-1-pentanol								248.0				
$C_6H_{14}O$	3-Methyl-2-pentanol								275.9				
$C_6H_{14}O$	4-Methyl-2-pentanol					-394.7			273.0				
$C_6H_{14}O$	2-Methyl-3-pentanol					-396.4							
$C_6H_{14}O$	3-Methyl-3-pentanol								293.4				
$C_6H_{14}O$	Dipropyl ether					-328.8	323.9	221.6	-293.0				
$C_6H_{14}O$	Diisopropyl ether					-351.5			216.8	-319.2			
$C_6H_{14}O$	Butyl ethyl ether								159.0				
$C_6H_{14}O$	tert-Butyl ethyl ether								-313.9				
$C_6H_{14}OS$	Dipropyl sulfoxide					-329.4			-254.9				
$C_6H_{14}O_2$	1,2-Hexanediol					-577.1			-490.1				
$C_6H_{14}O_2$	1,6-Hexanediol	-569.9				-548.6			-461.2				
$C_6H_{14}O_2$	2-Methyl-2,4-pentanediol								336.0				
$C_6H_{14}O_2$	Ethylene glycol monobutyl ether								281.0				
$C_6H_{14}O_2$	1,1-Diethoxyethane					-491.4			-453.5				
$C_6H_{14}O_2$	Ethylene glycol diethyl ether					-451.4	259.4	259.4	-408.1				
$C_6H_{14}O_3$	Diethylene glycol monoethyl ether								301.0				
$C_6H_{14}O_3$	Diethylene glycol dimethyl ether								274.1				
$C_6H_{14}O_3$	Trimethylolpropane	-750.9											
$C_6H_{14}O_4$	Triethylene glycol					-804.3			-725.0				
$C_6H_{14}O_5S$	Dipropyl sulfate					-859.0			-792.0				
$C_6H_{14}O_6$	Galactitol					-1317.0							
$C_6H_{14}O_6$	D-Mannitol					-1314.5							
$C_6H_{14}S$	1-Hexanethiol					-175.7			-129.9				
$C_6H_{14}S$	2-Methyl-2-pentanethiol					-188.3			-148.3				
$C_6H_{14}S$	2,3-Dimethyl-2-butane-thiol					-187.1			-147.9				
$C_6H_{14}S$	Diisopropyl sulfide					-181.6	313.0	232.0	-142.0				
$C_6H_{14}S$	Butyl ethyl sulfide					-172.3			-127.8				
$C_6H_{14}S$	Methyl pentyl sulfide					-167.1			-121.8				
$C_6H_{14}S_2$	Dipropyl disulfide					-171.5			-118.3				
$C_6H_{15}B$	Triethylborane					-194.6	9.4	336.7	241.2	-157.7	16.1	437.8	
$C_6H_{15}N$	Dipropylamine					-156.1				-116.0			
$C_6H_{15}N$	Diisopropylamine					-178.5				-143.8			
$C_6H_{15}N$	Triethylamine					-127.7			219.9	-92.7			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C ₆ H ₁₅ NO	2-Diethylaminoethanol				-305.9								
C ₆ H ₁₅ NO ₃	Triethanolamine	-664.2		389.0						-558.3			
C ₆ H ₁₆ N ₂	1,6-Hexanediamine	-205.0											
C ₆ H ₁₈ N ₃ OP	Hexamethylphosphoric triamide					321.0							
C ₆ H ₁₈ OSi ₂	Hexamethyldisiloxane					-815.0	-541.5	433.8	311.4	-777.7	-534.5	535.0	238.5
C ₆ MoO ₆	Molybdenum hexacarbonyl	-982.8	-877.7	325.9	242.3					-912.1	-856.0	490.0	205.0
C ₆ N ₄	Tetracyanoethene	623.8							705.0				
C ₆ F ₈	Perfluorotoluene					-1311.1		355.5	262.3				
C ₆ F ₁₄	Perfluoromethylcyclohexane					-2931.1		353.1	-2897.2				
C ₆ F ₁₆	Perfluoroheptane					-3420.0		561.8	419.0	-3383.6			
C ₆ H ₃ F ₅	2,3,4,5,6-Pentafluorotoluene					-883.8		306.4	225.8	-842.7			
C ₆ HCl ₂ O	3-Chlorobenzoyl chloride					-189.7							
C ₆ H ₅ N ₂ O ₆	3,5-Dinitrobenzoic acid	-409.8											
C ₆ H ₅ ClO	Benzoyl chloride					-158.0				-103.2			
C ₆ H ₅ ClO ₂	2-Chlorobenzoic acid	-404.5								-325.0			
C ₆ H ₅ ClO ₂	3-Chlorobenzoic acid	-424.3								-342.3			
C ₆ H ₅ ClO ₂	4-Chlorobenzoic acid	-428.9			163.2					-341.0			
C ₆ H ₅ F ₃	(Trifluoromethyl)benzene								188.4				
C ₆ H ₅ N	Benzonitrile					163.2		209.1	165.2	215.7			
C ₆ H ₅ NO	Benzoxazole	-24.2								44.8			
C ₆ H ₅ NO ₄	2-Nitrobenzoic acid	-378.8											
C ₆ H ₅ NO ₄	3-Nitrobenzoic acid	-394.7											
C ₆ H ₅ NO ₄	4-Nitrobenzoic acid	-392.2											
C ₆ H ₅ N ₂ O ₆	2,4,6-Trinitrotoluene	-63.2			243.3								
C ₆ H ₆ N ₂	1H-Benzimidazole	79.5								181.7			
C ₆ H ₆ N ₂	1H-Indazole	151.9								243.0			
C ₆ H ₅ N ₂ O ₄	1-Methyl-2,4-dinitrobenzene	-66.4								33.2			
C ₆ H ₆ O	Benzaldehyde					-87.0		221.2	172.0	-36.7			
C ₆ H ₆ O ₂	Benzoic acid	-385.2		167.6	146.8					-294.0			
C ₆ H ₆ O ₂	Salicylaldehyde							222.0					
C ₆ H ₆ O ₂	3-(2-Furanyl)-2-propenal	-182.0								-105.9			
C ₆ H ₆ O ₃	2-Hydroxybenzoic acid	-589.9								-494.8			
C ₆ HBr	4-Bromotoluene					12.0							
C ₆ H ₅ Cl	2-Chlorotoluene							166.8					
C ₆ H ₅ Cl	(Chloromethyl)benzene					-32.5				18.9			
C ₆ H ₅ F	4-Fluorotoluene					-186.9			171.2	-147.4			
C ₆ H ₅ NO	Benzamide	-202.6								-100.9			
C ₆ H ₅ NO ₂	Aniline-2-carboxylic acid	-401.1								-296.0			
C ₆ H ₅ NO ₂	Aniline-3-carboxylic acid	-417.3								-283.6			
C ₆ H ₅ NO ₂	Aniline-4-carboxylic acid	-410.0			177.8					-296.7			
C ₆ H ₅ NO ₂	2-Nitrotoluene					-9.7							
C ₆ H ₅ NO ₂	3-Nitrotoluene					-31.5							
C ₆ H ₅ NO ₂	4-Nitrotoluene	-48.1			172.3					31.0			
C ₆ H ₅ NO ₂	(Nitromethyl)benzene					-22.8				30.7			
C ₆ H ₅ NO ₂	Salicylaldoxime	-183.7											
C ₆ H ₆	Toluene					12.4			157.3	50.5			
C ₆ H ₅ N ₂ O	Phenylurea	-218.6											
C ₆ H ₆ O	<i>o</i> -Cresol	-204.6		165.4	154.6					-128.6			
C ₆ H ₆ O	<i>m</i> -Cresol					-194.0		212.6	224.9	-132.3			
C ₆ H ₆ O	<i>p</i> -Cresol	-199.3		167.3	150.2					-125.4			
C ₆ H ₆ O	Benzyl alcohol					-160.7		216.7	217.9	-100.4			
C ₆ H ₆ O	Anisole					-114.8				-67.9			
C ₆ H ₅ N	Benzylamine					34.2			207.2	94.4			
C ₆ H ₅ N	2-Methylaniline					-6.3				56.4	167.6	351.0	130.2
C ₆ H ₅ N	3-Methylaniline					-8.1				54.6	165.4	352.5	125.5
C ₆ H ₅ N	4-Methylaniline	-23.5								55.3	167.7	347.0	126.2
C ₆ H ₅ N	<i>N</i> -Methylaniline						207.1						
C ₆ H ₅ N	1-Cyclohexenecarbonitrile					48.1				101.6			
C ₆ H ₅ N	2,3-Dimethylpyridine					19.4		243.7	189.5	67.1			
C ₆ H ₅ N	2,4-Dimethylpyridine					16.1		248.5	184.8	63.6			
C ₆ H ₅ N	2,5-Dimethylpyridine					18.7		248.8	184.7	66.5			
C ₆ H ₅ N	2,6-Dimethylpyridine					12.7		244.2	185.2	58.1			
C ₆ H ₅ N	3,4-Dimethylpyridine					18.3		240.7	191.8	68.8			
C ₆ H ₅ N	3,5-Dimethylpyridine					22.5		241.7	184.5	72.0			
C ₆ H ₁₀ O ₂	Ethyl 2-pentynoate					-301.8				-250.3			
C ₆ H ₁₀ O ₂	Methyl 2-hexynoate					-242.7							

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_7H_{11}Cl_3O_2$	Isopentyl trichloroacetate				-580.9					-523.1			
$C_7H_{11}N$	Cyclohexanecarbonitrile				-47.2					4.8			
C_7H_{12}	Bicyclo[2.2.1]heptane	-95.1		151.0						-54.8			
C_7H_{12}	1-Methylbicyclo[3.1.0]hexane				-33.2					1.7			
C_7H_{12}	Méthylénecyclohexane				-61.3					-25.2			
C_7H_{12}	Vinylcyclopentane				-34.8								
C_7H_{12}	1-Ethylcyclopentene				-53.3					-19.8			
$C_7H_{12}O$	2-Methylenecyclohexanol				-277.6								
$C_7H_{12}O_2$	Butyl acrylate				-422.6			251.0		-375.3			
$C_7H_{12}O_4$	Diethyl malonate							285.0					
$C_7H_{13}ClO_2$	Butyl 2-chloropropanoate				-571.7					-517.3			
$C_7H_{13}ClO_2$	Isobutyl 2-chloropropanoate				-603.1					-549.6			
$C_7H_{13}ClO_2$	Butyl 3-chloropropanoate				-557.9					-502.3			
$C_7H_{13}ClO_2$	Isobutyl 3-chloropropanoate				-572.6					-517.3			
$C_7H_{13}ClO_2$	Propyl 2-chlorobutanoate				-630.7					-578.4			
$C_7H_{13}N$	Heptanenitrile				-82.8					-31.0			
C_7H_{14}	1-Heptene				-97.9		327.6	211.8		-62.3			
C_7H_{14}	cis-2-Heptene				-105.1								
C_7H_{14}	trans-2-Heptene				-109.5								
C_7H_{14}	cis-3-Heptene				-104.3								
C_7H_{14}	trans-3-Heptene				-109.3								
C_7H_{14}	5-Methyl-1-hexene				-100.0					-65.7			
C_7H_{14}	cis-3-Methyl-3-hexene				-115.9					-79.4			
C_7H_{14}	trans-3-Methyl-3-hexene				-112.7					-76.8			
C_7H_{14}	2,4-Dimethyl-1-pentene				-117.0					-83.8			
C_7H_{14}	4,4-Dimethyl-1-pentene				-110.6					-81.6			
C_7H_{14}	2,4-Dimethyl-2-pentene				-123.1					-88.7			
C_7H_{14}	cis-4,4-Dimethyl-2-pentene				-105.3					-72.6			
C_7H_{14}	trans-4,4-Dimethyl-2-pentene				-121.7					-88.8			
C_7H_{14}	2-Ethyl-3-methyl-1-butene				-114.1					-79.5			
C_7H_{14}	2,3,3-Trimethyl-1-butene				-117.7					-85.5			
C_7H_{14}	Cycloheptane				-156.6					-118.1			
C_7H_{14}	Methylcyclohexane				-190.1			184.8		-154.7			
C_7H_{14}	Ethylcyclopentane				-163.4		279.9			-126.9			
C_7H_{14}	1,1-Dimethylcyclopentane				-172.1					-138.2			
C_7H_{14}	cis-1,2-Dimethylcyclopentane				-165.3		269.2			-129.5			
C_7H_{14}	trans-1,2-Dimethylcyclopentane				-171.2					-136.6			
C_7H_{14}	cis-1,3-Dimethylcyclopentane				-170.1					-135.8			
C_7H_{14}	trans-1,3-Dimethylcyclopentane				-168.1					-133.6			
C_7H_{14}	1,1,2,2-Tetramethylcyclopropane				-119.8								
$C_7H_{14}Br_2$	1,2-Dibromoheptane				-212.3					-157.9			
$C_7H_{14}O$	1-Heptanal				-311.5		335.4	230.1		-263.8			
$C_7H_{14}O$	2-Heptanone							232.6					
$C_7H_{14}O$	3-Heptanone									-297.1			
$C_7H_{14}O$	4-Heptanone									-298.3			
$C_7H_{14}O$	2,2-Dimethyl-3-pentanone				-356.1					-313.6			
$C_7H_{14}O$	2,4-Dimethyl-3-pentanone				-352.9		318.0	233.7		-311.3			
$C_7H_{14}O$	cis-2-Methylcyclohexanol				-390.2					-327.0			
$C_7H_{14}O$	trans-2-Methylcyclohexanol, (\pm)				-415.7					-352.5			
$C_7H_{14}O$	cis-3-Methylcyclohexanol, (\pm)				-416.1					-350.9			
$C_7H_{14}O$	trans-3-Methylcyclohexanol, (\pm)				-394.4					-329.1			
$C_7H_{14}O$	cis-4-Methylcyclohexanol				-413.2					-347.5			
$C_7H_{14}O$	trans-4-Methylcyclohexanol				-433.3					-367.2			
$C_7H_{14}O_2$	Heptanoic acid				-610.2			265.4		-536.2			
$C_7H_{14}O_2$	Pentyl acetate							261.0					
$C_7H_{14}O_2$	Isopentyl acetate							248.5					
$C_7H_{14}O_2$	Ethyl pentanoate				-553.0					-505.9			
$C_7H_{14}O_2$	Ethyl 3-methylbutanoate				-571.0					-527.0			
$C_7H_{14}O_2$	Ethyl 2,2-dimethylpropanoate				-577.2					-536.0			
$C_7H_{14}O_2$	Methyl hexanoate				-540.2					-492.2			
$C_7H_{14}O_6$	α -Methylglucoside	-1233.3											
$C_7H_{15}Br$	1-Bromoheptane				-218.4					-167.8			
C_7H_{16}	Heptane				-224.2			224.7		-187.6			
C_7H_{16}	2-Methylhexane				-229.5		323.3	222.9		-194.5			
C_7H_{16}	3-Methylhexane				-226.4					-191.3			
C_7H_{16}	3-Ethylpentane				-224.9		314.5	219.6		-189.5			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C_2H_{16}	2,2-Dimethylpentane					-238.3		300.3	221.1	-205.7			
C_2H_{16}	2,3-Dimethylpentane					-233.1				-198.7			
C_2H_{16}	2,4-Dimethylpentane					-234.6		303.2	224.2	-201.6			
C_2H_{16}	3,3-Dimethylpentane					-234.2				-201.0			
C_2H_{16}	2,2,3-Trimethylbutane					-236.5		292.2	213.5	-204.4			
$C_2H_{16}O$	1-Heptanol					-403.3			272.1	-336.5			
$C_2H_{16}O$	tert-Butyl isopropyl ether					-392.8				-358.1			
$C_2H_{16}O_2$	1,7-Heptanediol					-574.2							
$C_2H_{16}O_2$	2,2-Diethoxypropane					-538.9				-506.9			
$C_2H_{16}S$	1-Heptanethiol					-200.5				-149.9			
$C_8H_4O_3$	Phthalic anhydride	-460.1		180.0	160.0					-371.4			
$C_8H_5NO_2$	1 <i>H</i> -Indole-2,3-dione	-268.2											
$C_8H_5O_4$	Phthalic acid	-782.0		207.9	188.1								
$C_8H_5O_4$	Isophthalic acid	-803.0								-696.3			
$C_8H_5O_4$	Terephthalic acid	-816.1								-717.9			
C_8H_5S	Benzob[b]thiophene	100.6								166.3			
C_8H_5N	1 <i>H</i> -Indole	86.6								156.5			
C_8H_8	Styrene					103.8			182.0	147.9			
C_8H_8	Phenyl vinyl ether					-26.2				22.7			
C_8H_8	Acetophenone					-142.5				-86.7			
$C_8H_8O_2$	<i>o</i> -Toluic acid	-416.5		174.9									
$C_8H_8O_2$	<i>m</i> -Toluic acid	-426.1		163.6									
$C_8H_8O_2$	<i>p</i> -Toluic acid	-429.2		169.0									
$C_8H_8O_2$	Methyl benzoate					-343.5			221.3	-287.9			
$C_8H_8O_3$	Methyl salicylate								249.0				
C_8H_9NO	Acetanilide	-209.4		179.3									
C_8H_{10}	1,7-Octadiyne					334.4							
C_8H_{10}	Ethylbenzene					-12.3			183.2	29.9			
C_8H_{10}	<i>o</i> -Xylene					-24.4			186.1	19.1			
C_8H_{10}	<i>m</i> -Xylene					-25.4			183.0	17.3			
C_8H_{10}	<i>p</i> -Xylene					-24.4			181.5	18.0			
$C_8H_{10}O$	2-Ethylphenol					-208.8				-145.2			
$C_8H_{10}O$	3-Ethylphenol					-214.3				-146.1			
$C_8H_{10}O$	4-Ethylphenol	-224.4		206.9						-144.1			
$C_8H_{10}O$	2,3-Xylenol	-241.1								-157.2			
$C_8H_{10}O$	2,4-Xylenol					-228.7				-163.8			
$C_8H_{10}O$	2,5-Xylenol	-246.6								-161.6			
$C_8H_{10}O$	2,6-Xylenol	-237.4								-162.1			
$C_8H_{10}O$	3,4-Xylenol	-242.3								-157.3			
$C_8H_{10}O$	3,5-Xylenol	-244.4								-162.4			
$C_8H_{10}O$	Benzeneethanol						252.6						
$C_8H_{10}O$	Ethoxybenzene					-152.6			228.5	-101.6			
$C_8H_{10}O_2$	1,2-Dimethoxybenzene					-200.3				223.3			
$C_8H_{11}N$	<i>N</i> -Ethylaniline					8.2				56.3			
$C_8H_{11}N$	<i>N,N</i> -Dimethylaniline					46.0				100.5			
$C_8H_{11}N$	2,4-Dimethylaniline					-39.2							
$C_8H_{11}N$	2,5-Dimethylaniline					-38.9							
$C_8H_{11}N$	2,6-Dimethylaniline						238.9						
C_8H_{12}	1-Octen-3-yne					140.7							
C_8H_{12}	cis-1,2-Divinylcyclobutane					124.3				166.5			
C_8H_{12}	trans-1,2-Divinylcyclobutane					101.3				143.5			
$C_8H_{12}N_4$	2,2'-Azobis(isobutyronitrile)	246.0		237.6									
$C_8H_{12}O_2$	2,2,4,4-Tetramethyl-1,3-cyclobutanedione	-379.9								-307.6			
C_8H_{14}	Ethyldienecyclohexane					-103.5				-59.5			
C_8H_{14}	Allylcyclopentane					-64.5				-24.1			
$C_8H_{14}ClN_5$	Atrazine	-125.4											
$C_8H_{14}O_3$	Butanoic anhydride						283.7						
$C_8H_{15}ClO_2$	3-Methylbutyl 2-chloropropanoate					-627.3				-575.0			
$C_8H_{15}ClO_2$	3-Methylbutyl 3-chloropropanoate					-593.4				-539.4			
$C_8H_{15}N$	Octanenitrile					-107.3				-50.5			
C_8H_{16}	1-Octene					-124.5			241.0	-81.3			
C_8H_{16}	cis-2-Octene					-135.7			239.0				
C_8H_{16}	trans-2-Octene					-135.7			239.0				
C_8H_{16}	cis-2,2-Dimethyl-3-hexene					-126.4				-89.3			
C_8H_{16}	trans-2,2-Dimethyl-3-hexene					-144.9				-107.7			

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

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
$C_8H_{18}S$	Di- <i>tert</i> -butyl sulfide					-232.6				-188.8			
$C_8H_{18}S$	Diisobutyl sulfide					-229.2				-180.5			
$C_8H_{18}S_2$	Dibutyl disulfide					-222.9				-160.6			
$C_8H_{18}S_2$	Di- <i>tert</i> -butyl disulfide					-255.2				-201.0			
$C_8H_{19}N$	Dibutylamine					-206.0			292.9	-156.6			
$C_8H_{19}N$	Diisobutylamine					-218.5				-179.2			
$C_8H_{20}BrN$	Tetraethylammonium bromide	-342.7											
$C_8H_{20}O_4Si$	Ethyl silicate						533.1		364.4				
$C_8H_{20}Pb$	Tetraethyl lead					52.7		464.6	307.4	109.6			
$C_8H_{20}Si$	Tetraethylsilane								298.1				
$C_8H_{16}N_2O_2$	Toluene-2,4-diisocyanate								287.8				
C_9H_7N	Quinoline					141.2				200.5			
C_9H_7N	Isoquinoline					144.3		216.0	196.2	204.6			
C_9H_7NO	2-Quinolinol	-144.9								-25.5			
C_9H_7NO	8-Quinolinol	82.1											
C_9H_8	Indene					110.6		215.3	186.9	163.4			
$C_9H_9O_4$	2-(Acetoxy)benzoic acid	-815.6											
C_9H_{10}	Cyclopropylbenzene					100.3				150.5			
C_9H_{10}	Indan					11.5		56.0	190.2	60.3			
$C_9H_{10}Cl_2N_2O$	Diuron	-329.0											
$C_9H_{10}N_2$	2,2'-Dipyrromethane	126.2											
$C_9H_{10}O_2$	Ethyl benzoate								246.0				
$C_9H_{10}O_2$	Benzyl acetate								148.5				
$C_9H_{11}NO_2$	<i>L</i> -Phenylalanine	-466.9		213.6	203.0					-312.9			
$C_9H_{11}NO_3$	<i>L</i> -Tyrosine	-685.1		214.0	216.4								
C_9H_{12}	Propylbenzene					-38.3		287.8	214.7	7.9			
C_9H_{12}	Isopropylbenzene					-41.1			210.7	4.0			
C_9H_{12}	2-Ethyltoluene					-46.4				1.3			
C_9H_{12}	3-Ethyltoluene					-48.7				-1.8			
C_9H_{12}	4-Ethyltoluene					-49.8				-3.2			
C_9H_{12}	1,2,3-Trimethylbenzene					-58.5		267.9	216.4	-9.5			
C_9H_{12}	1,2,4-Trimethylbenzene					-61.8			215.0	-13.8			
C_9H_{12}	1,3,5-Trimethylbenzene					-63.4			209.3	-15.9			
$C_9H_{12}O$	2-Isopropylphenol					-233.7				-182.2			
$C_9H_{12}O$	3-Isopropylphenol					-252.5				-196.0			
$C_9H_{12}O$	4-Isopropylphenol	-270.0								-175.3			
$C_9H_{12}O_2$	Isopropylbenzene hydroperoxide					-148.3				-78.4			
$C_9H_{13}NO_2$	Ethyl 3,5-dimethylpyrrole-2-carboxylate	-474.5											
$C_9H_{13}NO_2$	Ethyl 2,4-dimethylpyrrole-3-carboxylate	-463.2											
$C_9H_{13}NO_2$	Ethyl 2,5-dimethylpyrrole-3-carboxylate	-478.7								-273.4			
$C_9H_{13}NO_2$	Ethyl 4,5-dimethylpyrrole-3-carboxylate	-470.3								-212.1			
$C_9H_{14}O$	Isophorone						253.5						
$C_9H_{14}O_6$	Triacetin					-1330.8		458.3	384.7	-1245.0			
$C_9H_{15}N$	3-Ethyl-2,4,5-trimethylpyrrole	-89.2											
C_9H_{16}	1-Nonyne					16.3				62.3			
$C_9H_{16}O_4$	Nonanedioic acid	-1054.3											
$C_9H_{17}NO$	2,2,6,6-Tetramethyl-4-piperidinone	-334.2								-273.4			
C_9H_{18}	Propylcyclohexane					-237.4		311.9	242.0	-192.3			
C_9H_{18}	1 α ,3 α ,5 β -1,3,5-Trimethylcyclohexane									-212.1			
$C_9H_{18}O$	2-Nonanone					-397.2				-340.7			
$C_9H_{18}O$	5-Nonanone					-398.2		401.4	303.6	-344.9			
$C_9H_{18}O$	2,6-Dimethyl-4-heptanone					-408.5			297.3	-357.6			
$C_9H_{18}O_2$	Nonanoic acid					-659.7			362.4	-577.3			
$C_9H_{18}O_2$	Butyl pentanoate					-613.3				-560.2			
$C_9H_{18}O_2$	<i>sec</i> -Butyl pentanoate					-624.2				-573.2			
$C_9H_{18}O_2$	Isobutyl pentanoate					-620.0				-568.6			
$C_9H_{18}O_2$	Methyl octanoate					-590.3				-533.9			
$C_9H_{19}N$	<i>N</i> -Butylpiperidine					-171.8							
$C_9H_{19}N$	2,2,6,6-Tetramethylpiperidine					-206.9				-159.9			
C_9H_{20}	Nonane					-274.7			284.4	-228.2			
C_9H_{20}	2,2-Dimethylheptane					-288.1							
C_9H_{20}	2,2,3-Trimethylhexane					-282.7							

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C ₁₀ H ₁₆ O	Camphor, (±)	-319.4		271.2						-267.5			
C ₁₀ H ₁₈	1,1'-Bicyclopentyl				-178.9								
C ₁₀ H ₁₈	cis-Decahydronaphthalene				-219.4		265.0	232.0	-169.2				
C ₁₀ H ₁₈	trans-Decahydronaphthalene				-230.6		264.9	228.5	-182.1				
C ₁₀ H ₁₈ O ₄	Sebacic acid	-1082.6								-921.9			
C ₁₀ H ₁₉ N	Decanenitrile				-158.4					-91.5			
C ₁₀ H ₂₀	1-Decene				-173.8		425.0	300.8	-123.3				
C ₁₀ H ₂₀	cis-1,2-Di- <i>tert</i> -butylethene				-163.6								
C ₁₀ H ₂₀	Butylcyclohexane				-263.1		345.0	271.0	-213.7				
C ₁₀ H ₂₀ O ₂	Decanoic acid	-713.7			-684.3					-594.9			
C ₁₀ H ₂₀ O ₂	Methyl nonanoate				-616.2					-554.2			
C ₁₀ H ₂₁ NO ₂	1-Nitrodecane				-351.5								
C ₁₀ H ₂₂	Decane				-300.9				314.4	-249.5			
C ₁₀ H ₂₂	2-Methylnonane				-309.8		420.1	313.3	-260.2				
C ₁₀ H ₂₂	5-Methylnonane				-307.9		423.8	314.4	-258.6				
C ₁₀ H ₂₂ O	1-Decanol				-478.1				370.6	-396.6			
C ₁₀ H ₂₂ O	Dipentyl ether								250.0				
C ₁₀ H ₂₂ O	Diisopentyl ether								379.0				
C ₁₀ H ₂₂ O ₂	1,10-Decanediol	-678.9											
C ₁₀ H ₂₂ O ₂	Ethylene glycol dibutyl ether								350.0				
C ₁₀ H ₂₂ S	1-Decanethiol	-309.9			-276.5		476.1	350.4	-211.5				
C ₁₀ H ₂₂ S	Dipentyl sulfide				-266.4					-204.9			
C ₁₀ H ₂₂ S	Diisopentyl sulfide				-281.8					-221.5			
C ₁₀ H ₂₃ N	Octyldimethylamine				-232.8								
C ₁₁ H ₈ O ₂	1-Naphthalenecarboxylic acid	-333.5								-223.1			
C ₁₁ H ₈ O ₂	2-Naphthalenecarboxylic acid	-346.1								-232.5			
C ₁₁ H ₁₀	1-Methylnaphthalene				56.3		254.8	224.4					
C ₁₁ H ₁₀	2-Methylnaphthalene	44.9	220.0	196.0						106.7			
C ₁₁ H ₁₂ N ₂ O ₂	L-Tryptophan	-415.3	251.0	238.1									
C ₁₁ H ₁₄	1,1-Dimethylindan				-53.6					-1.6			
C ₁₁ H ₁₆	1- <i>tert</i> -Butyl-3-methylbenzene				-109.7								
C ₁₁ H ₁₆	1- <i>tert</i> -Butyl-4-methylbenzene				-109.7					-57.0			
C ₁₁ H ₁₆	Pentamethylbenzene	-144.6								-67.2			
C ₁₁ H ₂₀	Spiro[5.5]undecane				-244.5					-188.3			
C ₁₁ H ₂₂	1-Undecene							344.9					
C ₁₁ H ₂₂ O ₂	Methyl decanoate				-640.5					-573.8			
C ₁₁ H ₂₄	Undecane				-327.2		344.9	270.8					
C ₁₁ H ₂₄ O	1-Undecanol				-504.8								
C ₁₂ F ₂₇ N	Tris(perfluorobutyl)amine							418.4					
C ₁₂ H ₈	Acenaphthylene	186.7		166.4						259.7			
C ₁₂ H ₈ N ₂	Phenazine	237.0								328.8			
C ₁₂ H ₈ O	Dibenzofuran	-5.3								83.4			
C ₁₂ H ₈ S	Dibenzothiophene	120.0								205.1			
C ₁₂ H ₈ S ₂	Thianthren	182.0								286.0			
C ₁₂ H ₉ N	Carbazole	101.7								200.7			
C ₁₂ H ₁₀	Acenaphthene	70.3	188.9	190.4						156.0			
C ₁₂ H ₁₀	Biphenyl	99.4	209.4	198.4						181.4			
C ₁₂ H ₁₀ N ₂ O	trans-Azoxybenzene	243.4								342.0			
C ₁₂ H ₁₀ N ₂ O	N-Nitrosodiphenylamine	227.2											
C ₁₂ H ₁₀ O	Diphenyl ether	-32.1	233.9	216.6	-14.9					52.0			
C ₁₂ H ₁₀ O ₂	1-Naphthaleneacetic acid	-359.2											
C ₁₂ H ₁₀ O ₂	2-Naphthaleneacetic acid	-371.9											
C ₁₂ H ₁₁ N	Diphenylamine	130.2								219.3			
C ₁₂ H ₁₁ N	2-Aminobiphenyl	93.8								184.4			
C ₁₂ H ₁₁ N	4-Aminobiphenyl	81.0											
C ₁₂ H ₁₂ N ₂	p-Benzidine	70.7											
C ₁₂ H ₁₄ O ₄	Diethyl phthalate				-776.6		425.1	366.1	-688.4				
C ₁₂ H ₁₆	Cyclohexylbenzene				-76.6					-16.7			
C ₁₂ H ₁₇ NO ₄	Diethyl 3,5-dimethylpyrrole-2,4-dicarboxylate	-916.7											
C ₁₂ H ₁₈	3,9-Dodecadiyne				197.8								
C ₁₂ H ₁₈	5,7-Dodecadiyne				181.5								
C ₁₂ H ₁₈	1- <i>tert</i> -Butyl-3,5-dimethylbenzene				-146.5								
C ₁₂ H ₁₈	Hexamethylbenzene	-162.4	306.3	245.6						-77.4			
C ₁₂ H ₂₂	Cyclohexylcyclohexane				-273.7					-215.7			
C ₁₂ H ₂₂ O ₄	Dodecanedioic acid	-1130.0								-976.9			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C ₁₂ H ₂₂ O ₁₁	Sucrose	-2226.1											
C ₁₂ H ₂₂ O ₁₁	β -D-Lactose	-2236.7											
C ₁₂ H ₂₄	1-Dodecene					-226.2		484.8	360.7	-165.4			
C ₁₂ H ₂₄ O ₂	Dodecanoic acid	-774.6		404.3		-737.9				-642.0			
C ₁₂ H ₂₄ O ₂	Methyl undecanoate					-665.2				-593.8			
C ₁₂ H ₂₄ O ₁₂	α -Lactose monohydrate	-2484.1											
C ₁₂ H ₂₅ Br	1-Bromododecane					-344.7				-269.9			
C ₁₂ H ₂₅ Cl	1-Chlorododecane					-392.3				-321.1			
C ₁₂ H ₂₆	Dodecane					-350.9		375.8	-289.4				
C ₁₂ H ₂₆ O	1-Dodecanol					-528.5		438.1	-436.6				
C ₁₂ H ₂₆ O ₃	Diethylene glycol dibutyl ether							452.0					
C ₁₂ H ₂₇ N	Tributylamine					-281.6							
C ₁₂ H ₂₇ O ₄ P	Tributyl phosphate							379.4					
C ₁₃ H ₈ O ₂	Xanthone	-191.5											
C ₁₃ H ₉ N	Acridine	179.4								273.9			
C ₁₃ H ₉ N	Phenanthridine	141.9								240.5			
C ₁₃ H ₉ N	Benzoflquinoline	150.6								233.7			
C ₁₃ H ₁₀	9-H-Fluorene	89.9		207.3	203.1					175.0		173.1	
C ₁₃ H ₁₀ N ₂	9-Acridinamine	159.2											
C ₁₃ H ₁₀ O	Benzophenone	-34.5				224.8				54.9			
C ₁₃ H ₁₁ N	9-Methyl-9H-carbazole	105.5								201.0			
C ₁₃ H ₁₂	Diphenylmethane	71.5		239.3		89.7				139.0			
C ₁₃ H ₁₃ N	N-Benzylaniline	101.4											
C ₁₃ H ₁₄ N ₂	4,4'-Diaminodiphenylmethane					270.9							
C ₁₃ H ₂₄ O ₄	Tridecanedioic acid	-1148.3											
C ₁₃ H ₂₆	1-Tridecene							391.8					
C ₁₃ H ₂₆ O ₂	Methyl dodecanoate					-693.0				-614.9			
C ₁₃ H ₂₈	Tridecane							406.7					
C ₁₃ H ₂₈ O	1-Tridecanol	-599.4											
C ₁₄ H ₈ O ₂	9,10-Anthracenedione	-188.5								75.7			
C ₁₄ H ₈ O ₂	9,10-Phenanthrenedione	-154.7								-46.6			
C ₁₄ H ₈ O ₄	1,4-Dihydroxy-9,10-anthracenedione	-595.8								-471.7			
C ₁₄ H ₁₀	Anthracene	129.2		207.5	210.5					230.9			
C ₁₄ H ₁₀	Phenanthrene	116.2		215.1	220.6					207.5			
C ₁₄ H ₁₀	Diphenylacetylene	312.4				225.9							
C ₁₄ H ₁₀ O ₂	Benzil	-153.9								-55.5			
C ₁₄ H ₁₀ O ₄	Benzoyl peroxide	-369.4								-281.7			
C ₁₄ H ₁₂	cis-Stilbene					183.3				252.3			
C ₁₄ H ₁₂	trans-Stilbene	136.9					48.7			236.1			
C ₁₄ H ₁₄	1,1-Diphenylethane												
C ₁₄ H ₁₄	1,2-Diphenylethane	51.5								142.9			
C ₁₄ H ₂₂	1,3-Di-tert-butylbenzene					-188.8							
C ₁₄ H ₂₂	1,4-Di-tert-butylbenzene	-212.0											
C ₁₄ H ₂₃ N ₃ O ₁₀	Pentetic acid	-2225.2											
C ₁₄ H ₂₇ N	Tetradecanenitrile					-260.2				-174.9			
C ₁₄ H ₂₈ O ₂	Tetradecanoic acid	-833.5				432.0	-788.8			-693.7			
C ₁₄ H ₂₈ O ₂	Methyl tridecanoate						-717.9			-635.3			
C ₁₄ H ₃₀ O	1-Tetradecanol	-629.6				388.0	-580.6						
C ₁₅ H ₁₆ O ₂	2,2-Bis(4-hydroxyphenyl)propane	-368.6											
C ₁₅ H ₂₄	1,3-Di-tert-butyl-5-methylbenzene	-245.8											
C ₁₅ H ₂₄ O	2,6-Di-tert-butyl-4-methylphenol	-410.0								-296.9			
C ₁₅ H ₃₀	Decylcyclopentane					-367.3							
C ₁₅ H ₃₀ O ₂	Pentadecanoic acid	-861.7				443.3	-811.7			-699.0			
C ₁₅ H ₃₀ O ₂	Methyl tetradecanoate						-743.9			-656.9			
C ₁₅ H ₃₂ O	1-Pentadecanol	-658.2											
C ₁₆ H ₁₀	Fluoranthene	189.9		230.6	230.2					289.0			
C ₁₆ H ₁₀	Pyrene	125.5		224.9	229.7					225.7			
C ₁₆ H ₂₂ O ₄	Dibutyl phthalate					-842.6				-750.9			
C ₁₆ H ₂₂ O ₁₁	α -D-Glucose pentaacetate	-2249.4											
C ₁₆ H ₂₂ O ₁₁	β -D-Glucose pentaacetate	-2232.6											
C ₁₆ H ₂₆	Decylbenzene					-218.3				-138.6			
C ₁₆ H ₃₂	1-Hexadecene					-328.7		587.9	488.9	-248.4			
C ₁₆ H ₃₂ O ₂	Hexadecanoic acid	-891.5		452.4	460.7	-838.1				-737.1			
C ₁₆ H ₃₂ O ₂	Methyl pentadecanoate					-771.0				-680.0			
C ₁₆ H ₃₃ Br	1-Bromohexadecane					-444.5				-350.2			

Molecular formula	Name	Crystal				Liquid				Gas			
		$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K	$\Delta_f H^\circ$ kJ/mol	$\Delta_f G^\circ$ kJ/mol	S° J/mol K	C_p J/mol K
C ₁₆ H ₃₄	Hexadecane				-456.1				501.6		-374.8		
C ₁₆ H ₃₄ O	1-Hexadecanol	-686.5		422.0							-517.0		
C ₁₆ H ₃₆ IN	Tetrabutylammonium iodide	-498.6											
C ₁₇ H ₃₄ O ₂	Heptadecanoic acid	-924.4		475.7	-865.6								
C ₁₈ H ₁₂	Benz[a]anthracene	170.8								293.0			
C ₁₈ H ₁₂	Chrysene	145.3								269.8			
C ₁₈ H ₁₄	<i>o</i> -Terphenyl		298.8	274.8			337.1	369.1					
C ₁₈ H ₁₄	<i>p</i> -Terphenyl	163.0	285.6	278.7						279.0			
C ₁₈ H ₁₅ N	Triphenylamine	234.7								326.8			
C ₁₈ H ₁₅ O ₄ P	Triphenyl phosphate		397.5	366.2									
C ₁₈ H ₁₅ P	Triphenylphosphine			312.5									
C ₁₈ H ₃₀	1,3,5-Tri- <i>tert</i> -butylbenzene	-320.0											
C ₁₈ H ₃₄ O ₂	Oleic acid						577.0						
C ₁₈ H ₃₄ O ₄	Dibutyl sebacate						619.0						
C ₁₈ H ₃₆ O ₂	Stearic acid	-947.7		501.5	-884.7					-781.2			
C ₁₈ H ₃₇ Cl	1-Chlorooctadecane					-544.1				-446.0			
C ₁₈ H ₃₈	Octadecane	-567.4		480.2	485.6					-414.6			
C ₁₈ H ₃₉ N	Trihexylamine					-433.0							
C ₁₉ H ₁₆ O	Triphenylmethanol	-2.5											
C ₁₉ H ₃₆ O ₂	Methyl oleate					-734.5				-649.9			
C ₁₉ H ₃₆ O ₂	Methyl <i>trans</i> -9-octadecenoate					-737.0							
C ₂₀ H ₁₂	Perylene	182.8		264.6	274.9								
C ₂₀ H ₁₂	Benzo[a]pyrene										254.8		
C ₂₀ H ₁₄ O ₄	Diphenyl phthalate	-489.2											
C ₂₀ H ₃₈ O ₂	Ethyl oleate				-775.8								
C ₂₀ H ₃₈ O ₂	Ethyl <i>trans</i> -9-octadecenoate				-773.3								
C ₂₀ H ₄₀ O ₂	Eicosanoic acid	-1011.9		545.1	-940.0					-812.4			
C ₂₁ H ₂₁ O ₄ P	Tri- <i>o</i> -cresyl phosphate		570.0	578.0									
C ₂₂ H ₁₄	Dibenz[a,h]anthracene										283.9		
C ₂₂ H ₄₂ O ₂	<i>trans</i> -13-Docosenoic acid	-960.7											
C ₂₂ H ₄₂ O ₂	Butyl oleate				-816.9								
C ₂₂ H ₄₄ O ₂	Butyl stearate												
C ₂₄ H ₃₈ O ₄	Bis(2-ethylhexyl) phthalate						704.7						
C ₂₄ H ₅₁ N	Trioctylamine				-585.0								
C ₂₆ H ₁₈	9,10-Diphenylanthracene	308.7								465.6			
C ₂₆ H ₅₄	5-Butyldocosane				-713.5					-587.6			
C ₂₆ H ₅₄	11-Butyldocosane				-716.0					-593.4			
C ₂₈ H ₁₈	9,9'-Bianthracene	326.2								454.3			
C ₃₁ H ₆₄	11-Decylheicosane				-848.0					-705.8			
C ₃₂ H ₆₆	Dotriacontane	-968.3								-697.2			
C ₆₀	Carbon (fullerene-C ₆₀)	2327.0	2302.0	426.0	520.0					2502.0	2442.0	544.0	512.0
C ₇₀	Carbon (fullerene-C ₇₀)	2555.0	2537.0	464.0	650.0					2755.0	2692.0	614.0	585.0