Standard Enthalpy of Formation <sup>*</sup> for Various Compounds											
Compound	ΔH° <sub>f</sub> (kJ/mol)	Compound	ΔH° <sub>f</sub> (kJ/mol)	Compound	ΔH° <sub>f</sub> (kJ/mol)	Compound	ΔH° <sub>f</sub> (kJ/mol)				
Ag <sub>2</sub> O(s)	-30.6	C <sub>2</sub> H <sub>5</sub> OH(1)	-277.6	HCl(g)	-92.3	NH <sub>4</sub> Cl(s)	-315.4				
$Ag_2S(s)$	-31.8	$C_2H_6(g)$	-84.7	HF(g)	-268.6	NH <sub>4</sub> NO <sub>3</sub> (s)	-365.1				
AgBr(s)	-99.5	$C_3H_8(g)$	-103.8	HgO(s)	-90.7	NiO(s)	-244.3				
AgCl(s)	-127.0	$n-C_4H_{10}(g)$	-124.7	HgS(s)	-58.2	NO(g)	+90.4				
AgI(s)	-62.4	$n-C_5H_{12}(1)$	-173.1	HI(g)	+25.9	$NO_2(g)$	+33.9				
$Al_2O_3(s)$	-1669.8	CO(g)	-110.5	$HNO_3(1)$	-173.2	Pb <sub>3</sub> O <sub>4</sub> (s)	-734.7				
BaCl <sub>2</sub> (s)	-860.1	$CO_2(g)$	-393.5	KBr(s)	-392.2	PbBr <sub>2</sub> (s)	-277.0				
BaCO <sub>3</sub> (s)	-1218.8	CoO(s)	-239.3	KCl(s)	-435.9	PbCl <sub>2</sub> (s)	-359.2				
BaO(s)	-558.1	$Cr_2O_3(s)$	-1128.4	KClO <sub>3</sub> (s)	-391.4	PbO(s)	-217.9				
BaSO <sub>4</sub> (s)	-1465.2	Cu <sub>2</sub> O(s)	-166.7	KF(s)	-562.6	PbO <sub>2</sub> (s)	-276.6				
Ca(OH) <sub>2</sub> (s)	-986.6	CuO(s)	-155.2	Mg(OH) <sub>2</sub> (s)	-924.7	PCl <sub>3</sub> (g)	-306.4				
CaCl <sub>2</sub> (s)	-795.0	CuS(s)	-48.5	MgCl <sub>2</sub> (s)	-641.8	PCl <sub>5</sub> (g)	-398.9				
CaCO <sub>3</sub> (s)	-1207.0	CuSO <sub>4</sub> (s)	-769.9	MgCO <sub>3</sub> (s)	-1113	SiO <sub>2</sub> (s)	-859.4				
CaO(s)	-635.5	Fe <sub>2</sub> O <sub>3</sub> (s)	-822.2	MgO(s)	-601.8	SnCl <sub>2</sub> (s)	-349.8				
CaSO <sub>4</sub> (s)	-1432.7	Fe <sub>3</sub> O <sub>4</sub> (s)	-1120.9	MgSO <sub>4</sub> (s)	-1278.2	SnCl <sub>4</sub> (l)	-545.2				
CCl <sub>4</sub> (l)	-139.5	$H_2O(g)$	-241.8	MnO(s)	-384.9	SnO(s)	-286.2				
CH <sub>3</sub> OH(1)	-238.6	H <sub>2</sub> O(1)	-285.8	MnO <sub>2</sub> (s)	-519.7	SnO <sub>2</sub> (s)	-580.7				
CH <sub>4</sub> (g)	-74.8	$H_2O_2(l)$	-187.6	NaCl(s)	-411.0	$SO_2(g)$	-296.1				
CHCl <sub>3</sub> (l)	-131.8	$H_2S(g)$	-20.1	NaF(s)	-569.0	SO <sub>3</sub> (g)	-395.2				
$C_2H_2(g)$	+226.7	H <sub>2</sub> SO <sub>4</sub> (1)	-811.3	NaOH(s)	-426.7	ZnO(s)	-348.0				
$C_2H_4(g)$	+52.3	HBr(g)	-36.2	NH <sub>3</sub> (g)	-46.2	ZnS(s)	-202.9				
All standard enthalpy values are at 25°C and 1 atmosphere of pressure.											

Standard Enthalpy of Formation <sup>*</sup> for Atomic and Molecular Ions											
Cations	ΔH° <sub>f</sub> (kJ/mol)	Cations	$\Delta H_{f}^{\circ}(kJ/mol)$	Anions	ΔH° <sub>f</sub> (kJ/mol)	Anions	$\Delta H^{\circ}_{f}(kJ/mol)$				
Ag <sup>+</sup> (aq)	+105.9	K <sup>+</sup> (aq)	-251.2	Br <sup>-</sup> (aq)	-120.9	$H_2PO_4^-(aq)$	-1302.5				
Al <sup>3+</sup> (aq)	-524.7	Li <sup>+</sup> (aq)	-278.5	Cl <sup>-</sup> (aq)	-167.4	$HPO_4^{2-}(aq)$	-1298.7				
Ba <sup>2+</sup> (aq)	-538.4	$Mg^{2+}(aq)$	-462.0	ClO <sub>3</sub> (aq)	-98.3	I⁻(aq)	-55.9				
Ca <sup>2+</sup> (aq)	-543.0	Mn <sup>2+</sup> (aq)	-218.8	ClO <sub>4</sub> (aq)	-131.4	$MnO_4$ (aq)	-518.4				
Cd <sup>2+</sup> (aq)	-72.4	Na <sup>+</sup> (aq)	-239.7	$\mathrm{CO_3}^{2-}(\mathrm{aq})$	-676.3	$NO_3^-(aq)$	-206.6				
Cu <sup>2+</sup> (aq)	+64.4	$NH_4^+(aq)$	-132.8	$CrO_4^{2-}(aq)$	-863.2	OH <sup>-</sup> (aq)	-229.9				
Fe <sup>2+</sup> (aq)	-87.9	Ni <sup>2+</sup> (aq)	-64.0	F <sup>-</sup> (aq)	-329.1	$PO_4^{3-}(aq)$	-1284.1				
Fe <sup>3+</sup> (aq)	-47.7	$Pb^{2+}(aq)$	+1.6	HCO <sub>3</sub> (aq)	-691.1	S <sup>2-</sup> (aq)	+41.8				
H <sup>+</sup> (aq)	0.0	Sn <sup>2+</sup> (aq)	-10.0			$SO_4^{2-}(aq)$	-907.5				
		$Zn^{2+}(aq)$	-152.4								
All standard enthalpy values are at 25°C, 1 molar concentration, and 1 atmosphere of pressure.											