

Enthalpy of Formation

Substance	State	ΔH_f
ammonia	<i>g</i>	-45.9
ammonium chloride	<i>s</i>	-314.4
ammonium sulfate	<i>s</i>	-1180.9
barium chloride	<i>s</i>	-858.6
barium nitrate	<i>s</i>	-768.2
barium sulfate	<i>s</i>	-1473.2
benzene	<i>g</i>	+82.88
benzene	<i>l</i>	+49.080
calcium carbonate	<i>s</i>	-1207.6
calcium chloride	<i>s</i>	-795.4
calcium hydroxide	<i>s</i>	-983.2
calcium nitrate	<i>s</i>	-938.2
calcium oxide	<i>s</i>	-634.9
calcium sulfate	<i>s</i>	-1434.5
carbon (diamond)	<i>s</i>	+1.9
carbon (graphite)	<i>s</i>	0.00
carbon dioxide	<i>g</i>	-393.5
carbon monoxide	<i>g</i>	-110.5
copper(II) nitrate	<i>s</i>	-302.9
copper(II) oxide	<i>s</i>	-157.3
copper(II) sulfate	<i>s</i>	-771.4
ethane	<i>g</i>	-83.8
ethyne (acetylene)	<i>g</i>	+228.2
hydrogen (H ₂)	<i>g</i>	0.00
hydrogen bromide	<i>g</i>	-36.29
hydrogen chloride	<i>g</i>	-92.3
hydrogen fluoride	<i>g</i>	-273.3
hydrogen iodide	<i>g</i>	+26.5
hydrogen oxide (water)	<i>g</i>	-241.8
hydrogen oxide (water)	<i>l</i>	-285.8
hydrogen peroxide	<i>g</i>	-136.3
hydrogen peroxide	<i>l</i>	-187.8
hydrogen sulfide	<i>g</i>	-20.6
iodine (I ₂)	<i>s</i>	0.00
iodine (I ₂)	<i>g</i>	+62.4
iron(II) chloride	<i>s</i>	-399.4
iron(II) oxide	<i>s</i>	-272.0
iron(III) oxide	<i>s</i>	-824.2
iron(II) sulfate	<i>s</i>	-928.4
iron(II) sulfide	<i>s</i>	-100.0
lead (II) oxide	<i>s</i>	-217.3

Substance	State	ΔH_f
lead(IV) oxide	<i>s</i>	-274.5
lead(I) nitrate	<i>s</i>	-451.9
lead(I) sulfate	<i>s</i>	-919.94
lithium chloride	<i>s</i>	-408.6
lithium nitrate	<i>s</i>	-483.1
magnesium chloride	<i>s</i>	-641.5
magnesium oxide	<i>s</i>	-601.6
magnesium sulfate	<i>s</i>	-1261.79
manganese(IV) oxide	<i>s</i>	-520.0
manganese(I) sulfate	<i>s</i>	-1065.3
mercury(I) chloride	<i>s</i>	-264.2
mercury(I) chloride	<i>s</i>	-230.0
mercury(I) oxide (red)	<i>s</i>	-90.8
methane	<i>g</i>	-74.9
nitrogen dioxide	<i>g</i>	+33.2
nitrogen monoxide	<i>g</i>	+90.29
dinitrogen monoxide	<i>g</i>	+82.1
dinitrogen tetroxide	<i>g</i>	+9.2
oxygen (O ₂)	<i>g</i>	0.00
ozone (O ₃)	<i>g</i>	+142.7
tetraphosphorus decoxide	<i>s</i>	-3009.9
potassium bromide	<i>s</i>	-393.8
potassium chloride	<i>s</i>	-436.49
potassium hydroxide	<i>s</i>	-424.58
potassium nitrate	<i>s</i>	-494.6
potassium sulfate	<i>s</i>	-1437.8
silicon dioxide (quartz)	<i>s</i>	-910.7
silver chloride	<i>s</i>	-127.01 ± 0.5
silver nitrate	<i>s</i>	-120.5
silver sulfide	<i>s</i>	-32.59
sodium bromide	<i>s</i>	-361.8
sodium chloride	<i>s</i>	-385.9
sodium hydroxide	<i>s</i>	-425.9
sodium nitrate	<i>s</i>	-467.9
sodium sulfate	<i>l</i>	-1387.1
sulfur dioxide	<i>g</i>	-296.8
sulfur trioxide	<i>g</i>	-395.7
tin(IV) chloride	<i>l</i>	-511.3
zinc nitrate	<i>s</i>	-483.7
zinc oxide	<i>s</i>	-350.5
zinc sulfate	<i>s</i>	-980.14