

A Selection of Thermodynamic Data

	$\Delta H_f^\ominus / \text{kJ mol}^{-1}$	$\Delta G_f^\ominus / \text{kJ mol}^{-1}$	$S^\ominus / \text{J mol}^{-1} \text{K}^{-1}$
$\text{Na}_2\text{CO}_3 (s)$	-1130.7	-1044.5	135.0
$\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O} (s)$	-4081.3	-3428.2	564.0
$\text{NaHCO}_3 (s)$	-950.8	-851.0	101.7
$\text{Na}_2\text{S}_2\text{O}_3 (s)$	-1123.0	-1028.0	155.0
$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O} (s)$	-2607.9	-2230	372.4
$\text{CaCO}_3 (s)$	-1206.9	-1128.8	92.7
$\text{CaO} (s)$	-635.1	-604.0	39.7
$\text{MgCO}_3 (s)$	-1095.8	-1012.1	65.7
$\text{MgO} (s)$	-601.7	-569.4	26.9
$\text{Al}_2\text{O}_3 (s)$	-1676	-1582	50.9
$\text{Fe}_2\text{O}_3 (s)$	-824.2	-742.2	87.4
$\text{HgO} (s)$	-90.8	-58.6	70.3
$\text{NH}_3 (g)$	-46.1	-16.4	192
$\text{CH}_4 (g)$	-74.8	-50.8	186.2
$\text{C}_2\text{H}_6 (g)$	-84.7	-32.9	229.5
$\text{C}_3\text{H}_8 (g)$	-104.5	-23.4	269.9
$\text{CO} (g)$	-110.5	-137.2	197.6
$\text{CO}_2 (g)$	-393.5	-394.4	214
$\text{H}_2\text{O} (g)$	-241.8	-228.6	188.7
$\text{H}_2\text{O} (l)$	-285.8	-237.2	69.9
$\text{H}_2\text{O} (s)$	-291.8		47.9
$\text{H}_2 (g)$			131
$\text{O}_2 (g)$			205
$\text{C} (graphite)$			5.74
$\text{C} (diamond)$			2.38
$\text{N}_2 (g)$			192
$\text{Fe} (s)$			27.3
$\text{Al} (s)$			28.3
$\text{Hg} (l)$			76.0