

THERMODYNAMIC DATA
CHEMISTRY BC2001x

SUBSTANCE	ΔH_f° (kJ/mole)	ΔG_f°(kJ/mole)	S° (J/K-mole)		
Br ₂ (g)	30.907	3.144	245.35		
Br(g)	111.88	82.43	174.91		
HBr(g)	-36.40	-53.43	198.59		
CaO(s)	-635.09	-604.05	39.75		
CaCO ₃ (s)	-1206.92	-1128.84	92.9		
CO(g)	-110.525	-137.15	197.56		
CO ₂ (g)	-393.51	-394.36	213.64		
CH ₄ (g)	-74.81	-50.75	186.15		
C ₂ H ₂ (g)	226.73	209.20	200.83		
C ₂ H ₄ (g)	52.26	68.12	219.45		
C ₂ H ₆ (g)	-84.68	-32.89	229.49		
C ₆ H ₆ (g)	82.927	129.66	269.2		
CH ₃ OH(<i>l</i>)	-238.66	-166.35	126.8		
CH ₃ CH ₂ OH(<i>l</i>)	-277.69	-174.89	160.7		
HCl(g)	-92.307	-95.299	186.80		
HF(g)	-271.1	-273.2	173.67		
H(g)	217.965	203.263	114.60		
Fe ₂ O ₃ (s)	-824.2	-742.2	87.40		
PbO ₂ (s)	-277.4	-217.4	68.6		
PbS(s)	-100.4	-98.7	91.2		
Hg(g)	61.317	31.853	174.85		
NO(g)	90.25	86.55	210.652		
NO ₂ (g)	33.8	51.29	239.95		
NH ₃ (g)	-46.11	-16.48	192.34		
N ₂ H ₄ (g)	95.40	159.35	238.47		
NH ₄ NO ₃ (s)	-365.56	-184.02	151.08		
O ₃ (g)	142.7	163.2	238.82		
H ₂ O(g)	-241.82	-228.59	188.72		
H ₂ O(<i>l</i>)	-285.83	-237.18	69.91		
SO ₂ (g)	-296.830	-300.194	248.11		
SO ₃ (g)	-395.72	-371.08	256.65		
ELEMENT	S° (J/K-mole)	ELEMENT	S° (J/K-mole)	ELEMENT	S° (J/K-mole)
Al(s)	28.33	Cl ₂ (g)	222.96	Fe(s)	27.28
Br ₂ (<i>l</i>)	152.23	F ₂ (g)	202.67	Hg(<i>l</i>)	76.02
Ca(s)	41.42	H ₂ (g)	130.57	N ₂ (g)	191.50
C(graphite)	5.740	I ₂ (s)	116.14	O ₂ (g)	205.03