

Standard Thermodynamic Properties for Selected Substances
(from Appendix G, OpenStax Atoms First 2e)

Substance	ΔH_f° (kJ mol ⁻¹)	ΔS° (J K ⁻¹ mol ⁻¹)	ΔG_f° (kJ mol ⁻¹)
SO ₂ (g)	-296.83	248.2	
SO ₃ (g)	-395.72	256.76	
O ₂ (g)	0	205.2	
H ₂ O(l)			-237.1
CO ₂ (g)			-394.36
C ₆ H ₁₂ O ₆ (s)			-910.56
NaCl(s)			-384.1
AgCl(s)			-109.8
Na ⁺ (aq)			-261.9
Cl ⁻ (aq)			-131.2
Ag ⁺ (aq)			77.11

Standard Reduction (Half-Cell) Potentials

Half reaction	E° (V)
Zn ²⁺ + 2e ⁻ → Zn	-0.7618
Cu ²⁺ + 2e ⁻ → Cu	+0.34
Ag ⁺ + e ⁻ → Ag	+0.7996

Faraday's Constant = F = 96,485 Cmol⁻¹

R = 0.008314 kJmol⁻¹K⁻¹