

TABLE 17.3 Selected Standard Molar Entropy Values ^a

Substance	S°, J/(mol · K)	Substance	Name	S°, J/(mol · K)
Br ₂ (g)	245.5	CH ₄ (g)	Methane	186.2
Br ₂ (ℓ)	152.2	CH ₃ CH ₃ (g)	Ethane	229.5
C _{diamond} (s)	2.4	CH ₃ OH(g)	Methanol	239.9
C _{graphite} (s)	5.7	CH ₃ OH(ℓ)		126.8
CO(g)	197.7	CH ₃ CH ₂ OH(g)	Ethanol	282.6
CO ₂ (g)	213.8	CH ₃ CH ₂ OH(ℓ)		160.7
H ₂ (g)	130.6	CH ₃ CH ₂ CH ₃ (g)	Propane	269.9
N ₂ (g)	191.5	CH ₃ (CH ₂) ₂ CH ₃ (g)	Butane	310.0
O ₂ (g)	205.0	CH ₃ (CH ₂) ₂ CH ₃ (ℓ)		231.0
H ₂ O(g)	188.8	C ₆ H ₆ (g)	Benzene	269.2
H ₂ O(ℓ)	69.9	C ₆ H ₆ (ℓ)		172.9
NH ₃ (g)	192.5	C ₁₂ H ₂₂ O ₁₁ (s)	Sucrose	360.2