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Chemical Equilibrium  $dG = -SdT + VdP + \sum n_i d\mu_i$ ; chemical potential for species  $i$ .  $\mu_i = \mu_i^\circ + RT \ln a_i$ .  $a_i = \frac{f_i}{f_i^\circ}$ .  $K = \frac{a_C^c a_D^d}{a_A^a a_B^b}$ . Standard state: pure species  $i$  at 1 atm and system temperature.

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