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Chemical Equilibrium  $dG = -SdT + VdP + \sum_{j=1}^n \mu_j dn_j$   
chemical potential for species  $j$ .  $\left(\frac{\partial G}{\partial n_j}\right)_{T,P,n_{i \neq j}} = \mu_j = G_j + RT \ln a_j$ ,  $a_j = f_j / f_j^K$ ,  $\mu_j^K = G_j^K + RT \ln a_j^K$   
Standard state: pure species  $j$  at 1 atm and system temperature.

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