

$$V_{m(\text{std})} = V_m Y_m \left(\frac{T_{\text{std}}}{T_m} \right) \left(\frac{P_{\text{bar}}}{P_{\text{std}}} \right) = K_1 V_m Y_m \left(\frac{P_{\text{bar}}}{T_m} \right) \quad \text{Eq. 306A-7}$$