

$$\Delta H_{\text{rxn}} = \sum \Delta H_f^\circ (\text{products}) - \sum \Delta H_f^\circ (\text{reactants})$$

$$k = Ae^{-E_a/RT}$$

$$\Delta G = \Delta H - T\Delta S$$

$$K_{\text{sp}} = [\text{M}^+]^x [\text{X}^-]^y$$

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$$PV = nRT$$

$$\text{pH} = -\log [\text{H}^+]$$

$$M_1V_1 = M_2V_2$$

$$\ln \frac{P_1}{P_2} = \frac{\Delta H_{\text{vap}}}{R} \left[\frac{1}{T_2} - \frac{1}{T_1} \right]$$

$$K_{\text{eq}} = \frac{[\text{AB}]}{[\text{A}][\text{B}]}$$

$$E = E^\circ - \frac{0.059}{n} \log Q$$

By Sally Ann Vanderbrink, Ph.D.

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SA Adler



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