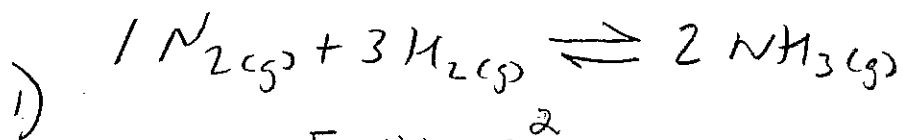
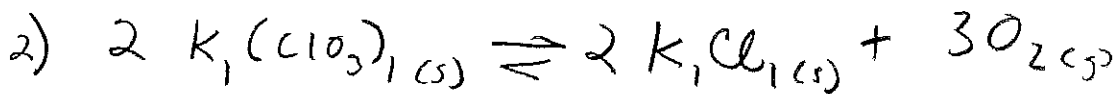


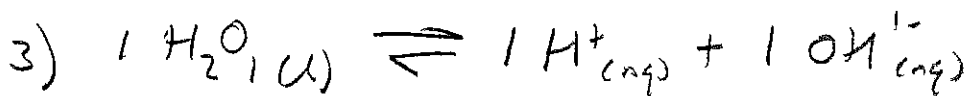
Problems for Equilibrium Constant Expressions



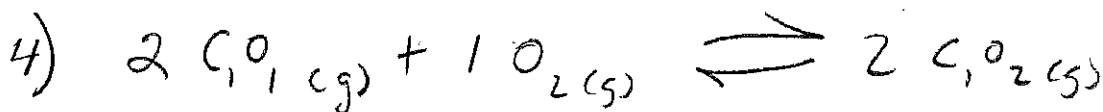
$$K = \frac{[\text{NH}_3(\text{g})]_E^2}{[\text{N}_2(\text{g})]_E^1 [\text{H}_2(\text{g})]_E^3}$$



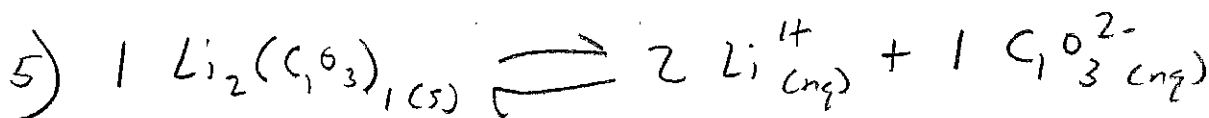
$$K = \frac{[\text{KCl}(\text{s})]_E^2 \cdot [\text{O}_2(\text{g})]_E^3}{[\text{KClO}_3(\text{s})]_E^2} = [\text{O}_2(\text{g})]_E^3$$



$$K = \frac{[\text{H}^+(\text{aq})]_E^1 \cdot [\text{OH}^-(\text{aq})]_E^1}{[\text{H}_2\text{O}(\text{l})]_E^1} = [\text{H}^+(\text{aq})]_E^1 \cdot [\text{OH}^-(\text{aq})]_E^1$$



$$K = \frac{[\text{CO}_2(\text{g})]_E^2}{[\text{CO}(\text{g})]_E^2 [\text{O}_2(\text{g})]_E^1}$$



$$K = \frac{[\text{Li}^+(\text{aq})]_E^2 \cdot [\text{CO}_3^{2-}(\text{aq})]_E^1}{[\text{Li}_2(\text{CO}_3)(\text{s})]_E^1} = [\text{Li}^+(\text{aq})]_E^2 \cdot [\text{CO}_3^{2-}(\text{aq})]_E^1$$