Chemical Equilibrium

AP Chem Unit 13: Practice Problems

Practice Problem #1: Write the equilibrium expression for the following reaction:

$$4NH_{3(g)} + 7O_{2(g)} \longleftrightarrow 4NO_{2(g)} + 6H_2O_{(g)}$$

Practice Problem #2: The following equilibrium concentrations were observed for the Haber process for the synthesis of ammonia at 127°C:

$$[NH_3] = 3.1 \times 10^{-2} \text{ mol/l}$$

$$[N_2] = 8.5 \times 10^{-1} \text{ mol/l}$$

$$[H_2] = 3.1 \times 10^{-3} \text{ mol/l}$$

- a) Calculate the value of K at 127°C for this reaction.
- b) Calculate the value of the equilibrium constant at 127°C for the reaction:

$$2NH_{3(g)} \longleftrightarrow N_{2(g)} + 3H_{2(g)}$$

c) Calculate the value of the equilibrium constant at 127°C for the reaction:

$$\frac{1}{2}N_{2(g)} + \frac{3}{2}H_{2(g)} \leftrightarrow NH_{3(g)}$$

Practice Problems Chemical Equilibrium

Barron's Educational Series, Mark Kernion, Joseph A. Mascetta

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