Unit 10: Equilibrium Practice 1

Calculating Ke and Kp

Consider the following chemical reaction:

$$H_2(g) + I_2(g) \rightleftharpoons 2 HI(g)$$

(a) Write the expression for the equilibrium constant, K_i for the reaction.

 $K_c = [HI]^2$ $[H_2][f_2]$

(b) At equilibrium in a particular experiment, the concentrations of H₂, I₂, and HI were 0.15 M, 0.033 M, and 0.55 M, respectively. Calculate the value of the equilibrium constant, K_c, for the reaction.

 $K_c = \frac{(0.55)^2}{(0.15)(0.033)} = 61$

Acetic acid is a weak acid that dissociates into the acetate ion and a proton in aqueous solution:

CH₂COOH (aq) ₹ CH₂COO (aq) + H (aq)

(a) Write the expression for the equilibrium constant, K_c, for the reaction.

K_e = [CH₂COO][H²] [CH₂COOH]

(b) At equilibrium at 25 °C, a 0.100 M solution of acetic acid has the following concentrations: [CH₂COOH] = 0.0990 M, [CH₂COO⁻] = 1.33 x 10⁻³ M, and [H⁺] = 1.33 x 10⁻³ M. Calculate the value of the equilibrium constant, K_c, for the reaction.

> $K_c = [1.33 \times 10^{-3}][1.33 \times 10^{-3}] = 1.79 \times 10^{-5}$ [0.0990]

At 22 °C, K_p = 0.070 for the equilibrium:

 $NH_4HS(s) \rightleftharpoons NH_3(g) + H_2S(g)$

- (a) Write the equilibrium constant expression, K_p, for the reaction.
 K_n = Post x Pres
- (b) A sample of solid NH₄HS is placed in a closed vessel and allowed to equilibrate. Calculate the equilibrium partial pressure (atm) of ammonia, assuming that some solid NH₄HS remains.
 K₂ = Pool x Pus = 0.070 = x²
- Given the following reaction at equilibrium at 450.0 °C:

 $CaCO_3(s) \rightleftharpoons CaO(s) + CO_2(g)$

(a) Write the equilibrium constant expression, Kp, for the reaction.

 $K_P = P_{CO}$

(b) If Pco₂ = 0.0160 atm, calculate the value of K_c. K_p = K_c (RT)^{No}

 $0.0160 = K_c [(0.0821)(450.0 + 273)]^{(1-0)}$ $0.0160 = K_c (59.36)$

(59.36) (59.36) 2.70 x 10⁻⁴ = K.

Aqueous Chemical Equilibrium Practice Problems

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