Section 7.6: Solubility Equilibria and the Solubility Product Constant

Tutorial 1 Practice, page 462

- 1. Solution: [MgCO₃(s)] is constant, so it is not included in the equation. Therefore, $K_{so} = [Mg^{2^{+}}(aq)][CO_{3}^{2^{-}}(aq)]$
- Statement: The solubility product constant equation for the solubility equilibrium is $K_{sp} = [Mg^{2^{+}}(aq)][CO_{3}^{2^{-}}(aq)]$
- 2. Given: iron(III) hydroxide dissolves in water
- Required: K_{sp} equation
- Solution:
- Step 1. Write a balanced equation for the dissolution of iron(III) hydroxide in water.
 - $Fe(OH)_3(s) \rightleftharpoons Fe^*(aq) + 3 OH^*(aq)$
- Step 2. [Fe(OH)₃(s)] is constant, so it is not included in the equation. Therefore, K_{sp} = [Fe⁺(aq)][OH⁻(aq)]³
- Statement: The solubility product constant equation for iron(III) hydroxide is $K_{sp} = [Fe^*(aq)][OH^*(aq)]^3$
- Given: At 25 °C: [Ca⁵ (aq)] = 4.53 × 10⁻⁷ mol/L; [PO₄³ (aq)] = 3.02 × 10⁻⁷ mol/L
- Required: K_{sp} of calcium phosphate at 25 °C
- Solution:
- Step 1. Write a balanced equation for the solution equilibrium.
 - $Ca_3(PO_4)_2(s) \implies 3 Ca^{2+}(aq) + 2 PO_4^{3-}(aq)$
- Step 2. Write the solubility constant equation for the equilibrium, omitting any solids, K_{sp} = [Ca²⁺(aq)]³[PO₄³⁻(aq)]²
- Step 3. Substitute the given ion concentrations into the K_{sp} equation and solve.
 - $K_{sp} = [\text{Ca}^{2*}(\text{aq})]^3 [\text{PO}_4^{3-}(\text{aq})]^2$ = $(4.53 \times 10^{-7})^3 (3.02 \times 10^{-7})^2$ $K_{sp} = 8.48 \times 10^{-39}$
- Statement: The K_{sp} of calcium phosphate in a saturated solution at 25 °C is 8.48×10^{-33} .

Tutorial 2 Practice, page 464

- 1. Given: solubility of MgF₂(s) = 1.72×10^{-3} g/100 mL at 25 °C
- Required: Kop of MgF2(s) at 25 °C
- Solution:
- Step 1. Write the balanced equation.
 - $MgF_2(s) \Longrightarrow Mg^{2*}(aq) + 2 F^*(aq)$
- Step 2. Write the solubility product constant equation.
 - $K_{uv} = [Mg^{2+}(aq)][F^{-}(aq)]^{2}$
- Step 3. Determine the equilibrium concentrations in mol/L of the dissolved ions. Use an ICE table. Since the concentration of solid MgF₂ remains constant, it is not included.

Nelson 12 Solution Manual

Michael Brown



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