

LECTURE 21 ACID-BASE EQUILIBRIUM

I. Classification of Acids and Bases

- A. Arrhenius
- B. Brønsted-Lowry
 - 1. Conjugate acid-base pairs
 - 2. Amphoteric molecules
- C. Lewis acid and base

II. Autoionization of Water

III. pH Function

IV. pOH Function

V. Strength of Acids and Bases

- 1. Acid in water
- 2. Base in water
- 3. Conjugate acids and bases
- 4. Relative strengths of acids

VI. Types of Acid-Base Problems

VII. Equilibrium Involving Weak Acids