

Chapter 2. Acids and Bases

Learning objectives:

1. Recognize Bronsted-Lowry acid and base.
2. Complete the reaction between Bronsted-Lowry acid and base, and recognize the relationship between acid and conjugate base, and base and conjugate acid.
3. Use pK_a or pH values to predict the dominant product(s) for an acid-base reaction.
4. Predict the order of acidity and basicity using electronegativity and resonance.
5. Recognize Lewis acid and base, and complete the reaction between Lewis acid and base by moving electrons.

Sections to be covered (in the order of delivery):

- 2.1 Bronsted-Lowry Acids and Bases
- 2.2 Quantitative Measure of Acid and Base Strength
- 2.3 Molecular Structure and Acidity
- 2.4 Position of Equilibrium in Acid-Base Reactions
- 2.5 Lewis Acids and Bases

Recommended additional problems

2.5 - 2.20