Chapter 10  Reactions in Aqueous Solutions I: Acids, Bases and Salts

Operational Objectives

☐ 1. Be able to describe an Arrhenius acid and base.

☐ 2. Be able to describe a Brønsted-Lowry acid and base.

☐ 3. Be able to describe a Lewis acid and base and give an example of each.

☐ 4. Be able to identify conjugate acid-base pairs.

☐ 5. Know your strong acids and bases. (Again!)

☐ 6. Describe the autoionization of water.

☐ 7. Describe amphoterism using aluminum hydroxide as an example.

☐ 8. Know the order of acid strength for binary hydrohalic acids and for oxyacids.

☐ 9. Be able to write balanced molecular equations for acid-base reactions.

☐ 10. Suggested problems:

   20, 24, 38, 50,

   Write balanced molecular (formula unit) equations for the following, # 58

   Know the definitions and give some examples of each of the following:

   Acidic salt
   Acid anhydride
   Basic salt
   Basic anhydride