

5 • Reactions in Aqueous Solution

Acid-Base & Gas Forming Equations

Write the balanced molecular, ionic equations, and net ionic equation.

Solutions of Strong Acids & Strong Bases

1. Solutions of hydrochloric acid and barium hydroxide are mixed.

2. Solutions of sulfuric acid and potassium hydroxide are mixed.

Solutions containing Weak Acids and/or Weak Bases

3. Solutions of calcium hydroxide and carbonic acid are mixed.

4. Solutions of hydrobromic acids and ammonium hydroxide are mixed.

Solutions reacting with Solids

5. Solid potassium hydroxide is added to a solution of sulfuric acid.

6. A solution of hydrochloric acid is added to solid copper(II) hydroxide.

Gas Forming Reactions

7. A solution of ammonium sulfate is added to solid lead hydroxide.

8. Solid iron(III) sulfide is added to a dilute solution of sulfuric acid.