

离子反应 Ionic Equation Worksheet

Write balanced molecular, total ionic, and net ionic equations for each of the following.

1. Aqueous sodium hydroxide reacts with aqueous copper(II) sulfate to precipitate copper(II)hydroxide.

氢氧化钠水溶液与硫酸铜（II）水溶液反应生成沉淀铜（II）氢氧化物

2. Aqueous potassium carbonate reacts with aqueous silver nitrate to precipitate silver carbonate.

碳酸钾水溶液与硝酸银水溶液反应生成沉淀碳酸银

3. Sulfuric acid reacts to neutralize aqueous sodium hydroxide.

硫酸和氢氧化钠水溶液的中和反应

4. Hydrochloric acid dissolves solid aluminum hydroxide.

盐酸溶解于固体氢氧化铝

5. Aqueous hydrofluoric acid (a weak acid) reacts with aqueous barium nitrate to form barium fluoride precipitate

氢氟酸水溶液（弱酸）与硝酸钡水溶液反应生成氟化钡沉淀

6. Solid nickel reacts with aqueous lead(II) nitrate to form solid lead and nickel(II) nitrate

固体镍与硝酸铅 (II) 反应形成固体铅和硝酸镍 (II)

7. Magnesium reacts with iodic acid to release hydrogen gas

镁与碘酸反应释放氢气

8. Aqueous barium hydroxide reacts with sulfuric acid to precipitate barium sulfate

氢氧化钡水溶液与硫酸反应生成沉淀硫酸钡

9. Aqueous sodium phosphate reacts with aqueous calcium chloride to precipitate calcium phosphate

磷酸钠水溶液与氯化钙水溶液反应生成沉淀磷酸钙。

10. Solid magnesium carbonate dissolves in nitric acid to produce carbon dioxide gas

固体碳酸镁溶解在硝酸中产生二氧化碳气体