

Quantitative Analysis ----- Practice Review Quiz

1. An object has mass 14.45 g and volume 10.0 cm³. Calculate the object's density.

2. Name the following compounds

a. FeO _____

b. Mg₃N₂ _____

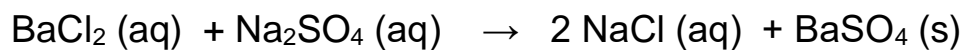
c. CCl₄ _____

d. CoPO₄ _____

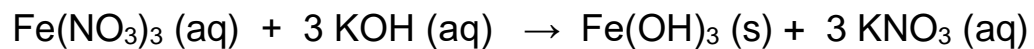
3. Calculate the number of moles of AgNO₃ in 15.0 g of AgNO₃

4. Calculate the mass in grams of 2.00 moles of N₂O₃

5. Calculate the mass of barium sulfate that will form when 10.0 g of barium chloride reacts completely in the following reaction:



6. 15.0 g of $\text{Fe}(\text{NO}_3)_3$ reacts with 15.0g KOH according to the following equation:



a. Calculate the limiting reactant

b. Calculate the theoretical yield of $\text{Fe}(\text{OH})_3$

7. Calculate the molarity of 31.35 g of NaCl in 1.50 L of aqueous solution

8. Calculate the final concentration of a HCl solution prepared by diluting 100.0 mL of 12.1 M HCl to 250.0 mL.