

Gravimetric Analysis Calculation Questions

Gravimetric Analysis Calculation Questions Gravimetric Analysis Calculation Questions A Comprehensive Guide Gravimetric analysis is a fundamental analytical technique used to determine the mass of a specific analyte in a sample. This method relies on the precise measurement of the mass of a precipitate formed through a chemical reaction between the analyte and a suitable reagent. The principle of gravimetric analysis is straightforward: the mass of the precipitate is directly proportional to the mass of the analyte in the original sample. This guide provides a comprehensive overview of gravimetric analysis calculation questions, covering various aspects of the technique and offering a step-by-step approach to solving problems.

Key Concepts and Definitions

Before diving into the calculation questions, it's crucial to understand the key concepts and definitions associated with gravimetric analysis:

- Analyte:** The specific component of interest in a sample that is being analyzed.
- Precipitate:** The solid compound formed during the chemical reaction between the analyte and the reagent.
- Precipitating Agent:** The reagent used to react with the analyte and form the precipitate.
- Gravimetric Factor:** The ratio of the molecular weight of the analyte to the molecular weight of the precipitate. This factor allows for the conversion of the mass of the precipitate to the mass of the analyte.
- Stoichiometry:** The study of the quantitative relationships between reactants and products in chemical reactions. It helps in understanding the mole ratios involved in the reaction.

Types of Gravimetric Analysis

Gravimetric analysis can be broadly classified into two main categories:

- 1. Precipitation Gravimetry:** This method involves the precipitation of the analyte as an insoluble compound by adding a suitable precipitating agent. The precipitate is then filtered, washed, dried, and weighed.
- 2. Volatilization Gravimetry:** In this method, the analyte is selectively volatilized from the sample by heat or chemical reaction. The volatile component is collected and measured, and the mass of the analyte is determined by difference.

Common Calculation Questions

Lets delve into some common calculation questions encountered in gravimetric analysis:

1. Determining the Mass of Analyte from the Mass of Precipitate

Problem: A sample of limestone (CaCO_3) weighing 0.500 g was dissolved in acid, and the calcium ions were precipitated as calcium oxalate (CaC_2O_4). The mass of the dried calcium oxalate precipitate was found to be 0.350 g. Calculate the percentage of calcium carbonate in the limestone sample.

Solution:

- Write the balanced chemical equation for the reaction:
$$\text{CaCO}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + \text{H}_2\text{O} + \text{CO}_2 \uparrow$$
- Calculate the gravimetric factor:
Gravimetric Factor = $\frac{\text{Molecular Weight of CaCO}_3}{\text{Molecular Weight of CaC}_2\text{O}_4}$
Gravimetric Factor = $\frac{100.09 \text{ g/mol}}{128.10 \text{ g/mol}} = 0.782$
- Calculate the mass of CaCO_3 in the precipitate:
Mass of CaCO_3 = Mass of CaC_2O_4 x Gravimetric Factor
Mass of CaCO_3 = $0.350 \text{ g} \times 0.782 = 0.274 \text{ g}$
- Calculate the percentage of CaCO_3 in the limestone sample:
$$\text{CaCO}_3 \text{ \%} = \frac{\text{Mass of CaCO}_3}{\text{Mass of Limestone Sample}} \times 100$$

$$\text{CaCO}_3 \text{ \%} = \frac{0.274 \text{ g}}{0.500 \text{ g}} \times 100 = 54.8 \%$$

2. Calculating the Mass of Precipitate from the Mass of Analyte

Problem: A solution containing 0.100 g of chloride ions (Cl^-) is treated with silver nitrate solution to precipitate silver chloride (AgCl). Calculate the theoretical yield of AgCl precipitate.

Solution:

- Write the balanced chemical equation for the reaction:
$$\text{AgNO}_3 + \text{Cl}^- \rightarrow \text{AgCl} + \text{NO}_3^-$$
- Calculate the moles of chloride ions:
Moles of Cl^- = $\frac{\text{Mass of Cl}^-}{\text{Molecular Weight of Cl}^-}$
Moles of Cl^- = $\frac{0.100 \text{ g}}{35.45 \text{ g/mol}} = 0.00282 \text{ mol}$
- Use the stoichiometric ratio from the balanced equation to determine the moles of AgCl :
Moles of AgCl = Moles of Cl^- = 0.00282 mol
- Calculate the mass of AgCl precipitate:
Mass of AgCl = Moles of AgCl x Molecular Weight of AgCl
Mass of AgCl = $0.00282 \text{ mol} \times 143.32 \text{ g/mol} = 0.404 \text{ g}$

3. Calculating the Concentration of Analyte

Problem: A 100.0 mL sample of a solution containing an unknown concentration of barium ions (Ba^{2+}) was treated with excess sodium sulfate (Na_2SO_4) to precipitate barium sulfate (BaSO_4). The precipitate was filtered, dried, and weighed to be 0.150 g. Calculate the concentration of barium ions in the original solution in mg/L.

Solution:

- Calculate the moles of BaSO_4 :
Moles of BaSO_4 = $\frac{\text{Mass of BaSO}_4}{\text{Molecular Weight of BaSO}_4}$
Moles of BaSO_4 = $\frac{0.150 \text{ g}}{233.39 \text{ g/mol}} = 0.000643 \text{ mol}$

g 23339 g/mol 0.000643 mol 2 Use the stoichiometric ratio from the balanced equation to determine the moles of Ba²⁺. Moles of Ba²⁺ Moles of BaSO₄ Moles of Ba²⁺ 0.000643 mol 3 Calculate the concentration of Ba²⁺ in the original solution Concentration of Ba²⁺ Moles of Ba²⁺ Volume of Solution x 1000 mg/g Concentration of Ba²⁺ 0.000643 mol 0.100 L x 1000 mg/g 643 mg/L 4 Practical Applications of Gravimetric Analysis Gravimetric analysis finds wide applications in various fields including Environmental Chemistry Determining the levels of heavy metals pollutants and other contaminants in water soil and air Food Chemistry Analyzing the composition of food products such as the fat content in milk or the salt content in processed foods Pharmaceutical Analysis Determining the purity and potency of drugs and pharmaceuticals Industrial Chemistry Monitoring and controlling the quality of raw materials and finished products in various industries Forensic Science Analyzing evidence to identify substances and trace elements Challenges and Limitations While gravimetric analysis is a powerful technique it also has its limitations Timeconsuming The process can be timeconsuming due to the need for filtration washing drying and weighing steps Not suitable for all analytes Some analytes may not form suitable precipitates or may be volatile at high temperatures Sensitivity The method may not be sensitive enough to detect trace levels of analytes Interferences Other components in the sample may interfere with the precipitation reaction leading to inaccurate results Conclusion Gravimetric analysis is a versatile analytical technique that provides accurate and precise results when properly executed Understanding the key concepts mastering the calculation procedures and recognizing potential challenges are crucial for successful application of this method By carefully selecting the appropriate precipitation reaction and controlling the experimental conditions gravimetric analysis remains a valuable tool for determining the mass of analytes in various samples across diverse fields

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