

Gravimetric Analysis of Chloride in Solution

Experiment 10
Lab 10
Date: _____

Introduction

This experiment involves the gravimetric analysis of a solution containing chloride ions. The procedure involves the precipitation of the chloride ions as silver chloride (AgCl) using a solution of silver nitrate (AgNO_3). The precipitate is then filtered, dried, and weighed. The mass of the precipitate is used to calculate the mass of chloride ions in the original solution. The experiment is performed in a fume hood to avoid exposure to the toxic fumes of silver nitrate. The procedure is as follows: 1. Preparation of the sample solution: A known mass of a sample containing chloride ions is dissolved in a known volume of water. 2. Addition of silver nitrate: A solution of silver nitrate is added to the sample solution until the chloride ions are completely precipitated as silver chloride. 3. Filtration: The precipitate is filtered from the solution using a filter paper. 4. Drying: The precipitate is dried in a desiccator to remove any water. 5. Weighing: The dried precipitate is weighed on a balance. 6. Calculation: The mass of the precipitate is used to calculate the mass of chloride ions in the original solution.

The reaction between silver nitrate and chloride ions is as follows: $\text{AgNO}_3 + \text{Cl}^- \rightarrow \text{AgCl} + \text{NO}_3^-$. The mass of the precipitate is used to calculate the mass of chloride ions in the original solution. The calculation is as follows: $\text{Mass of Cl}^- = \frac{\text{Mass of AgCl}}{\text{Molar mass of AgCl}} \times \text{Molar mass of Cl}^-$.

Procedure

The procedure for this experiment is as follows: 1. Preparation of the sample solution: A known mass of a sample containing chloride ions is dissolved in a known volume of water. 2. Addition of silver nitrate: A solution of silver nitrate is added to the sample solution until the chloride ions are completely precipitated as silver chloride. 3. Filtration: The precipitate is filtered from the solution using a filter paper. 4. Drying: The precipitate is dried in a desiccator to remove any water. 5. Weighing: The dried precipitate is weighed on a balance. 6. Calculation: The mass of the precipitate is used to calculate the mass of chloride ions in the original solution.

Data Analysis

Sample 1	Sample 2
Mass of sample	Mass of sample
Mass of precipitate	Mass of precipitate
Mass of chloride ion	Mass of chloride ion

The mass of the precipitate is used to calculate the mass of chloride ions in the original solution.

$\text{Mass of Cl}^- = \frac{\text{Mass of AgCl}}{\text{Molar mass of AgCl}} \times \text{Molar mass of Cl}^-$

The mass of the precipitate is used to calculate the mass of chloride ions in the original solution.

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