

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 principle of gravimetric analysis is based on the fact that the mass of a substance is proportional to the number of moles of the substance. In this experiment, the chloride ions in the solution are precipitated as silver chloride (AgCl) by adding a known volume of a silver nitrate solution. 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 silver nitrate, which is a strong oxidizing agent and can cause skin irritation. The experiment is also performed in a dry environment to avoid the formation of silver chloride hydrate, which can lead to inaccurate results.

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Procedure

The procedure for this experiment is as follows: 1. Weigh a known mass of the sample (e.g., 0.1000 g) and dissolve it in a known volume of water (e.g., 100 mL). 2. Add a known volume of a silver nitrate solution (e.g., 10 mL) to the solution. 3. Filter the precipitate and dry it in a desiccator. 4. Weigh the dried precipitate (e.g., 0.1500 g).

Data Analysis

Sample	Mass of Sample (g)	Mass of Precipitate (g)
Sample 1	0.1000	0.1500
Sample 2	0.1000	0.1500
Sample 3	0.1000	0.1500

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

$$\text{Mass of Cl}^- = \text{Mass of Sample} \times \frac{\text{Mass of Precipitate}}{\text{Mass of Sample}}$$

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

Analysis Of Chloride Lab Report

A Gutmann



Analysis Of Chloride Lab Report:

Enjoying the Track of Phrase: An Mental Symphony within **Analysis Of Chloride Lab Report**

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