

# 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 ( $\text{AgCl}$ ) using a solution of silver nitrate ( $\text{AgNO}_3$ ). 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 all the chloride ions have been 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 chloride ions in the original solution is calculated from the mass of the precipitate.

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## 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 |

Calculation of the mass of chloride ion in the sample #1 solution:

$$\text{Mass of chloride ion} = \text{Mass of precipitate} \times \frac{\text{Molar mass of chloride ion}}{\text{Molar mass of silver chloride}}$$

Calculation of the mass of chloride ion in the sample #2 solution:

# Analysis Of Chloride Lab Report

**ML Yell**



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