

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 silver nitrate solution. 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 known volume of a silver nitrate solution is added to the sample solution. 3. Precipitation: The mixture is allowed to stand for a period of time to allow the precipitate to form. 4. Filtration: The precipitate is filtered from the solution using a filter paper. 5. Drying: The precipitate is dried in a desiccator to remove any water. 6. Weighing: The dried precipitate is weighed on a balance. 7. 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 experiment is performed in a fume hood to avoid exposure to the toxic silver nitrate solution.

Procedure:

The procedure involves the gravimetric analysis of a solution containing chloride ions. 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 known volume of a silver nitrate solution is added to the sample solution. 3. Precipitation: The mixture is allowed to stand for a period of time to allow the precipitate to form. 4. Filtration: The precipitate is filtered from the solution using a filter paper. 5. Drying: The precipitate is dried in a desiccator to remove any water. 6. Weighing: The dried precipitate is weighed on a balance. 7. 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	0.500 g	0.500 g
Mass of precipitate	0.850 g	0.850 g
Mass of chloride ion	0.350 g	0.350 g

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

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

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

Analysis Of Chloride Lab Report

**United States. Office of the Assistant
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