

Gravimetric Analysis of Chloride in Solution

Experiment 10
Lab 10
Date: _____

Introduction:

This experiment involves the gravimetric analysis of a sample solution containing chloride ions. The sample solution is a mixture of sodium chloride and other soluble salts. The sample is weighed and then dissolved in water. The solution is then treated with silver nitrate, which reacts with the chloride ions to form a precipitate of silver chloride. The precipitate is then filtered, washed, and dried. The mass of the dried precipitate is then measured. The mass of the chloride ions in the original sample can be calculated from the mass of the dried precipitate.

The reaction between silver nitrate and sodium chloride is as follows:

$$\text{AgNO}_3 + \text{NaCl} \rightarrow \text{AgCl} + \text{NaNO}_3$$

Procedure:

The procedure for this experiment is as follows:

1. Weigh a sample of the solution (approximately 0.5 g).
2. Dissolve the sample in water in a beaker.
3. Add a few drops of dilute nitric acid to the solution.
4. Add a solution of silver nitrate to the solution until a white precipitate forms.
5. Filter the precipitate using a filter paper.
6. Wash the precipitate with distilled water.
7. Dry the precipitate in a desiccator.
8. Weigh the dried precipitate.

Data Analysis:

	Sample 1	Sample 2
Mass of sample	0.50 g	0.50 g
Mass of dried precipitate	0.85 g	0.85 g
Mass of chloride ion	0.42 g	0.42 g

The mass of the dried precipitate is 0.85 g. The mass of the sample is 0.50 g.

The mass of the chloride ion is 0.42 g.

The mass of the dried precipitate is 0.85 g. The mass of the sample is 0.50 g.

Analysis Of Chloride Lab Report

**United States. Environmental
Protection Agency**



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Water-resources Investigations Report ,2003 Standard Methods for Soil, Water and Plant Analysis Y. V. Singh,2024-11-15 Written out of the author s experience at the laboratories in the Institute of Agricultural Sciences at Banaras Hindu University this book addresses the need for identifying and addressing deficiencies in soil water and plants Techniques to evaluate soil fertility constraints based on soil chemical extraction and analysis of the plants that grow on such soils are discussed This book also presents standard methods from different sources these have been compiled and adapted for routine analyses in the Indian subcontinent This book is aimed at aimed at research scientists technicians and students Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan **Scientific and Technical Aerospace Reports** ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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Archives of Pathology & Laboratory Medicine ,2001 Integrated Approach to Coordination Chemistry Rosemary A. Marusak,Kate Doan,Scott D. Cummings,2007-03-07 Coordination chemistry is the study of compounds formed between metal ions and other neutral or negatively charged molecules This book offers a series of investigative inorganic laboratories approached through systematic coordination chemistry It not only highlights the key fundamental components of the coordination chemistry field it also exemplifies the historical development of concepts in the field In order to graduate as a chemistry major that fills the requirements of the American Chemical Society a student needs to take a laboratory course in inorganic chemistry Most professors who teach inorganic chemistry laboratory prefer to emphasize coordination chemistry rather than attempting to cover all aspects of inorganic chemistry because it keeps the students focused on a cohesive part of inorganic chemistry which has applications in medicine the environment molecular biology organic synthesis and inorganic materials

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