

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 ions. 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, dried, and weighed. The mass of the precipitate is used to calculate the mass of chloride in the original sample. 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 clean, dry environment to avoid contamination of the sample.

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Procedure

The procedure involves the following steps: 1. Weighing the sample. 2. Dissolving the sample in water. 3. Adding silver nitrate to the solution. 4. Filtering the precipitate. 5. Drying the precipitate. 6. Weighing the dried precipitate. 7. Calculating the mass of chloride in the sample.

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 in sample	0.350 g	0.350 g

The mass of chloride in the sample is calculated using the following equation:

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

The mass of chloride in the sample is calculated using the following equation:

Analysis Of Chloride Experiment 7 Lab Report

SJ Ball



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Report No. FHWA-RD. United States. Federal Highway Administration. Offices of Research and Development,1978
Energy Research Abstracts ,1986 The Office of Environmental Management Technical Reports ,1997 **Report summaries** United States. Environmental Protection Agency,1983 **Energy Conservation Update** ,1980 *Technical Abstract Bulletin* Defense Documentation Center (U.S.),1961-02 **Cumulated Index Medicus** ,1994 **Government Reports Announcements & Index** ,1996 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 **Water-resources Investigations Report** ,2003 Analytical Chemistry for Technicians John Kenkel,2002-10-29 Surpassing its bestselling predecessors this thoroughly updated third edition is designed to be a powerful training tool for entry level chemistry technicians Analytical Chemistry for Technicians Third Edition explains analytical chemistry and instrumental analysis principles and how to apply them in the real world A unique feature of this edition is that it brings the workplace of the chemical technician into the classroom With over 50 workplace scene sidebars it offers stories and photographs of technicians and chemists working with the equipment or performing the techniques discussed in the text It includes a supplemental CD that enhances training activities The author incorporates knowledge gained from a number of American Chemical Society and PITTCON short courses and from personal visits to several laboratories at major chemical plants where he determined firsthand what is important in the modern analytical laboratory The book includes more than sixty experiments specifically relevant to the laboratory technician along with a Questions and Problems section in each chapter Analytical Chemistry for Technicians Third Edition continues to offer the nuts and bolts of analytical chemistry while focusing on the practical aspects of training *Oceanography* Alan Rabinowitz,Toby Bates Sutton,1970 **Scientific and Technical Aerospace Reports** ,1992-07 **Public Health Reports** ,1952 **Selected Water Resources Abstracts** ,1990-07 **Soil Science Research in the Plant Science Department ... Annual Report** ,1990 *U.S. Government Research Reports* ,1964 **Quantitative Chemical Analysis** Mr. Rohit Manglik,2024-07-11 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Bibliography of Scientific and Industrial Reports* ,1947 Physical Removal of Microbial Contamination Agents in Drinking Water ,

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