

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 sodium nitrate. The sample is weighed and then dissolved in water. The solution is then treated with silver nitrate 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 and the precipitate.

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Procedure

The procedure for this experiment is as follows: 1. Weigh a sample of sodium chloride and sodium nitrate. 2. Dissolve the sample in water. 3. Add silver nitrate to the solution to form a precipitate of silver chloride. 4. Filter the precipitate. 5. Dry the precipitate. 6. Weigh the dried precipitate. 7. Calculate the mass of chloride in the original 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 as follows: $m_{\text{Cl}^-} = m_{\text{precipitate}} \times \frac{m_{\text{Cl}^-}}{m_{\text{AgCl}}}$

For Sample 1: $m_{\text{Cl}^-} = 0.850 \text{ g} \times \frac{35.45 \text{ g}}{143.32 \text{ g}} = 0.350 \text{ g}$

For Sample 2: $m_{\text{Cl}^-} = 0.850 \text{ g} \times \frac{35.45 \text{ g}}{143.32 \text{ g}} = 0.350 \text{ g}$

Analysis Of Chloride Experiment 7 Lab Report

**United States. Environmental
Protection Agency**



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Energy Research Abstracts ,1986 **Report summaries** United States. Environmental Protection Agency,1983 *The Office of Environmental Management Technical Reports* ,1997 **Energy Conservation Update** ,1980 *Cumulated Index Medicus* ,1994 **Tietz Textbook of Laboratory Medicine - E-Book** Nader Rifai,2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more Authoritative current content helps you perform tests in a cost effective timely and efficient manner provides expertise in managing clinical laboratory needs and shows how to be responsive to an ever changing environment Current guidelines help you select perform and evaluate the results of new and established laboratory tests Expert internationally recognized chapter authors present guidelines representing different practices and points of view Analytical criteria focus on the medical usefulness of laboratory procedures Use of standard and international units of measure makes this text appropriate for any user anywhere in the world Elsevier eBooks provides the entire text as a fully searchable eBook and includes animations podcasts more than 1300 clinical case studies over 2500 multiple choice questions a lecture series and more all included with print purchase NEW 19 additional chapters highlight various specialties throughout laboratory medicine NEW Updated peer reviewed content provides the most current information possible NEW The largest ever compilation of clinical cases in laboratory medicine is included with print purchase on Elsevier eBooks NEW Over 100 adaptive learning courses included with print purchase on Elsevier eBooks offer the opportunity for personalized education Government Reports Announcements & Index ,1996 **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1961-02 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960

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1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Analysis Of Chloride Experiment 7 Lab Report
- Chapter 2: Essential Elements of Analysis Of Chloride Experiment 7 Lab Report
- Chapter 3: Analysis Of Chloride Experiment 7 Lab Report in Everyday Life
- Chapter 4: Analysis Of Chloride Experiment 7 Lab Report in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Analysis Of Chloride Experiment 7 Lab Report. The first chapter will explore what Analysis Of Chloride Experiment 7 Lab Report is, why Analysis Of Chloride Experiment 7 Lab Report is vital, and how to effectively learn about Analysis Of Chloride Experiment 7 Lab Report.
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5. In chapter 4, this book will scrutinize the relevance of Analysis Of Chloride Experiment 7 Lab Report in specific contexts. The fourth chapter will explore how Analysis Of Chloride Experiment 7 Lab Report is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Analysis Of Chloride Experiment 7 Lab Report. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Analysis Of Chloride Experiment 7 Lab Report.

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