

## Gravimetric Analysis of a Chloride Salt (G)

*Date submitted: 10/12/2021*

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*Lab section: LW3*

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### Purpose:

The purpose of the lab is to find the amount of chloride present in any unknown soluble salt, by showing and explaining the techniques present in gravimetric analysis.

### Theory:

- i. This is the equation that describes the reaction between silver ion and chloride ion to form silver chloride:



- ii. AgCl solubility in water and the  $K_{sp}$ :

"Silver chloride is very insoluble, so we can assume that the above reaction goes to completion."<sup>1</sup>

$$K_{sp} = 1.6 \times 10^{-10}$$

- iii. AgCl is precipitated in an acidic medium to reduce the chance of acid ions interfering with the results. These ions will form co-precipitates with silver in acid. Due to these co-precipitates, the results would be higher.
- iv. In order to ensure the precipitate does not go through the filter paper, which would give us lower results. To prevent this from happening, it is heated to make coagulate it into a clumpy mass. Heating the precipitate makes it coagulate, making it much harder for any precipitate to go through the filter paper.
- v. Silver chloride decomposes into silver and chloride in the presence of light, which is described by the following equation:



If this photodecomposition takes place in air, it will result in lower results since chlorine will be released as a gas. If it takes place in the presence of excess silver ion in aqueous solution, it will result in higher results, due to chlorine reacting with the silver to form silver chloride and solid silver from the decomposition remaining in the precipitate, which will make the results high. The following chemical equation is a result of chlorine reacting with silver to form silver chloride:

# Gravimetric Analysis Lab Report

**TD Snyder**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the student name.

## **Gravimetric Analysis Lab Report:**

**Working with Chemistry** Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well

**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

U.S. Government Research Reports, 1964

**English in Analytical Chemistry. Communicating about Methods & Techniques.** Книга для студента Надежда Зорина, Александра Соболева, 2022-10-19

**Scientific and Technical Aerospace Reports**, 1995 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

**Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.), 1960

**Report summaries** United States. Environmental Protection Agency, 1983

**Report of the Cornell University Agricultural Experiment Station** Cornell University. Agricultural Experiment Station, 1891

Annual Report of the Agricultural Experiment Station Cornell University. Agricultural Experiment Station, 1891

**Study and Communication Skills for the Chemical Sciences** Tina Overton, Stuart Johnson, Jon Scott, 2011-01-06 Written in a practical motivational style with plenty of examples and advice to help you master the skills being explored Study and Communication Skills for the Chemical Sciences explains how to get the most out of lectures tutorials and group work how to get the most out of the vast array of information that is available in books in journals and on the web how to communicate your work and ideas effectively to others and how to revise for and complete exams to give yourself the best chance of success

NASA Scientific and Technical Reports United States. National Aeronautics and

Space Administration Scientific and Technical Information Division,1967      **A Selected Listing of NASA Scientific and Technical Reports for ...** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1966      **A Selected Listing of NASA Scientific and Technical Reports for 1966** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1967      **U.S. Government Research & Development Reports** ,1965      *Analytical Chemistry for Technicians, Fourth Edition* John Kenkel,2013-08-13

Written as a training manual for chemistry based laboratory technicians this thoroughly updated fourth edition of the bestselling *Analytical Chemistry for Technicians* emphasizes the applied aspects rather than the theoretical ones The book begins with classical quantitative analysis and follows with a practical approach to the complex world of sophisticated electronic instrumentation commonly used in real world laboratories Providing a foundation for the two key qualities the analytical mindset and a basic understanding of the analytical instrumentation this book helps prepare individuals for success on the job Chapters cover sample preparation gravimetric analysis titrimetric analysis instrumental analysis spectrochemical methods such as atomic spectroscopy and UV Vis and IR molecular spectrometry chromatographic techniques including gas chromatography and high performance liquid chromatography electroanalytical methods and more Incorporating an additional ten years of teaching experience since the publication of the third edition the author has made significant updates and enhancements to the fourth edition More than 150 new photographs and either new or reworked drawings spanning every chapter to assist the visual learner A new chapter on mass spectrometry covering GC MS LC MS LC MS MS and ICP MS Thirteen new laboratory experiments An introductory section before chapter 1 to give students a preview of general laboratory considerations safety laboratory notebooks and instrumental analysis Additional end of chapter problems expanded report type questions and inclusion of relevant section headings in the Questions and Problems sections Application Notes in each chapter An appendix providing a glossary of quality assurance and good laboratory practice GLP terms      College of Engineering University of Washington. College of Engineering,1911      **Annual Research Progress Report** ,1991      Technical Abstract Bulletin ,1964      **Annual Research Progress Report - US Army Institute of Surgical Research** ,1992      *EPA Publications Bibliography* United States. Environmental Protection Agency,1987

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