

Gravimetric Analysis of Chloride: Lab 4

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Introduction:

Gravimetric analysis is a technique designed to isolate and determine the measurement of mass of the ion. By separating and determining that mass of the ion in the solution we can determine the molar mass and the other molecule used in the compound (M_xCl_y). Through gravimetric analysis the values of M , x , and y can be determined. Typical gravimetric analysis has chemists weight the sample of the unknown substance, dissolve the sample in a solvent, add a reagent to form a precipitate, filter and dry the precipitate and calculate the percent of substance from the weight of the precipitate and the sample. For example, in this experiment the unknown compound of Cl is added to water, to ionize. Then mixed with both HNO_3 and $AgNO_3$, which forms a precipitate through the reaction in **Figure 1.A**. After the precipitate is formed it is filtered and dried in a drying oven, after the final mass of $AgCl$ is determined and used in the calculations to determine the mass of the compound M .



Experimental:

Procedure: (found in Green Lab Manual Zhao, *General Chemistry Lab Manual* (1st Edition), pgs. 36-38)

Original Procedure: No Altered Procedure

Data Analysis:

Gravimetric Analysis Data Collection

	Trial 1	Trial 2
Mass of Cl sample:	0.2511 g	0.2500 g
Mass of crucible:	32.2227 g	32.1936 g
Mass of crucible + precipitate:	32.8383 g	32.7750 g
Mass of $AgCl$ precipitate:	0.6156 g	0.5814 g

Trial 1:

Trial 2:

Results For Gravimetric Analysis Lab Report

New York State College of Agriculture

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Report summaries United States. Environmental Protection Agency,1983 *Annual Report of the Agricultural Experiment Station* Cornell University. Agricultural Experiment Station,1891 **Report of the Cornell University Agricultural Experiment Station** Cornell University. Agricultural Experiment Station,1891 **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 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 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 *Analytical Chemistry for Technicians* 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 so **Technical Abstract Bulletin** ,1964 **U.S. Government Research & Development Reports** ,1967 Annual Report of the New York State College of Agriculture and Life Sciences at Cornell University & the Cornell University Agricultural Experiment Station New York State College of Agriculture,1891 **EPA Publications Bibliography** United States. Environmental Protection Agency,1987 **U.S. Government Research Reports** ,1961 **Annual Report** New York State College of Agriculture and Life Sciences,1891 English in Analytical Chemistry. Communicating about Methods & Techniques. Книга для студента Надежда Зорина, Александра Соболева, 2022-10-19 **Cooperative Chemistry Lab Manual** Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations **Energy Research Abstracts** ,1993 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works

deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Fossil Energy Update** ,1983 Computers and Data Processing Systems ,1962 **Quantitative Analytical Chemistry** James Sherwood Fritz,George H. Schenk,1987 U.S. Government Research & Development Reports ,1969

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