

# 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**

	<b>Trial 1</b>	<b>Trial 2</b>
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

**Donald J. Wink, Sharon Fetzer-  
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**Experiment Station** Cornell University. Agricultural Experiment Station,1891  
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**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  
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