

# Chemical Reactions and Qualitative Analysis

## An Inquiry Activity

### Introduction

To protect human health and safeguard the environment, the EPA regulates the amounts of many cations, including barium, copper, iron, lead, silver and zinc, in drinking water. Precise quantitative analysis of these cations is achieved using special instruments. Sometimes, however, all one really wants to know is if these cations are present in water. This question can usually be answered by qualitative analysis, in which the possible impurities in water are separated from one another and then identified using a series of characteristic chemical reactions.

### Concepts

- Chemical reactions
- Qualitative analysis
- Precipitation reactions
- Complex ion reactions

### Background

Inorganic qualitative analysis of water involves carrying out a series of chemical reactions to test for the presence or absence of specific ions. In this experiment, you will design a qualitative analysis scheme for the separation and identification of three metal cations—iron(III) ( $\text{Fe}^{3+}$ ), silver ( $\text{Ag}^+$ ) and zinc ( $\text{Zn}^{2+}$ ) ions. The cations can be separated from the mixture using precipitation reactions to selectively precipitate one cation. After the cations have been separated, they can be positively identified using characteristic complex ion reactions or additional precipitation reactions. Consider the following relevant chemical reactions of iron(III), silver and zinc ions.

#### Precipitation Reactions



#### Complex Ion Reactions



### Experiment Overview

The purpose of this experiment is to design and carry out a sequence of chemical reactions for the separation and identification of iron(III) ( $\text{Fe}^{3+}$ ), silver ( $\text{Ag}^+$ ) and zinc ( $\text{Zn}^{2+}$ ) ions in water. Two parallel series of tests will be carried out, one with a known sample containing all three metal cations, the other with an unknown sample containing only one or two metals.

# Flinn Chemtopic Labs Chemical Reactions And Qualitative Analysis

**George Wallace Sears**



## **Flinn Chemtopic Labs Chemical Reactions And Qualitative Analysis:**

### **Qualitative Analysis Tables and the Reactions of Certain Organic Substances** Letts Edmund Albert, 2023-07-18

This book is a laboratory manual for students of qualitative analysis in chemistry providing a detailed description of the classical methods for identifying organic substances based on their reactions with various reagents Edmund Albert Letts presents a series of tables and diagrams that illustrate the properties and reactions of common organic compounds along with instructions for conducting experiments and interpreting results The book is a valuable resource for chemistry students and professionals who want to improve their skills in qualitative analysis This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Reactions

and Solubilities of Chemical Substances Involved in Qualitative Analysis Lawrence Carroll Olson, 1936 **A Course in Qualitative Chemical Analysis** Charles Baskerville, Louis Jacob Curtman, 2023-07-18 This comprehensive textbook provides an in depth introduction to qualitative chemical analysis exploring the principles of chemical reactions and their application to the identification of various substances Ideal for chemistry students researchers and anyone interested in the chemical sciences This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **Qualitative Chemical Analysis** Wilfred Weldon

Scott, 2015-06-28 Excerpt from Qualitative Chemical Analysis A Laboratory Guide In this edition the greater portion of the text has been rewritten and new material added although the general plan of the original work has been retained Under Laboratory Exercises a large number of chemical equations have been introduced for the purpose of emphasizing the reactions The lists of questions at the close of each group of elements have been enlarged In Part V tables of chemical compounds have been added Part VI is entirely new This includes the less common elements which are important on account of their technical use This section will be of value to those desiring an extended course in qualitative analysis The author trusts that this edition will prove useful as a classroom guide and that it will offer concise and accurate information as a reference work in the field of qualitative chemical analysis The author's acknowledgments are due to Dr J C Olsen for valued

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Laboratory,1870\*     Qualitative Analysis Louis Munroe Dennis,Theodore Whittelsey,1902     *Elements of qualitative and quantitative chemical analysis* George Chapman Caldwell,1894     **Laboratory Guide and Class Manual in Qualitative Chemical Analysis** Harry Sands Grindley,1906     **Qualitative Analysis Tables** Edmund Albert Letts,1892     A *Systematic Qualitative Chemical Analysis* George Wallace Sears,1926     **Qualitative Chemical Analysis. A Guide in the Practical Study of Chemistry and in the Work of Analysis ... Second Edition, Revised** Silas H. DOUGLAS (and PRESCOTT (Albert B.)),1876     **Exercises in General Chemistry and Qualitative Analysis** Horace Grove Deming,1926

**A Course of Qualitative Chemical Analysis** William George Valentin,1874     The Compendious Manual of Qualitative Chemical Analysis C. W. Eliot,2015-06-28

Excerpt from The Compendious Manual of Qualitative Chemical Analysis The authors have endeavored to include in this short treatise enough of the theory and practice of qualitative analysis in the wet way to bring out all the reasoning involved in the subject and to give the student a firm hold upon the general principles and methods of the art It has been their aim to give only so much of mechanical detail as is essential to an exact comprehension of the methods and to success in the actual experiments Hence the multiplication of different tests or processes having essentially the same object has been purposely avoided For the same reason none of the rare elements are alluded to The manual is intended to meet the wants of the general student to whom the study is chiefly valuable as a means of mental discipline and as a compact example of the scientific method of arriving at truth To professional students who wish to make themselves expert analysts this little book offers a logical introduction to the subject an outline which is trustworthy as far as it goes but which needs to be filled in and enlarged by the subsequent use of some more elaborate treatise as a book of reference Professor Johnson of Yale has supplied this need with his excellent edition of Fresenius s comprehensive manual The authors believe that they have put into the following pages as much of inorganic qualitative analysis as is useful for training and also as much as the engineer physician agriculturist or liberally educated man needs to know The book has been written for the use of classes in the Institute of Technology who have already studied the authors Manual of Inorganic Chemistry It is simply an implement devised to facilitate the giving of thorough instruction to large classes in the laboratory It is the authors practice to examine their classes orally every four or five exercises in order to secure close attention to the reasoning of the subject About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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