

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 needs to know is whether 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) (Fe^{3+}), silver (Ag^{+}) and zinc (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



Red



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) (Fe^{3+}), silver (Ag^{+}) and zinc (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.

Chemical Reactions And Qualitative Analysis Lab Flinn Chemtopic Answers

Wilfred Welday Scott



Chemical Reactions And Qualitative Analysis Lab Flinn Chemtopic Answers:

Qualitative Chemical Analysis Wilfred Welday Scott, 1918 Qualitative Chemical Analysis Wilfred Welday

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 criticism and to Mr J P Kelly for his assistance in reading the proof About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at 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 *Qualitative Chemical*

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Chemistry by Experimentation, Including Qualitative Analysis Wilbur Franklin Hoyt, 1917

Practical Chemistry. The Principles of Qualitative Analysis Sir William Augustus Tilden, 1880

Laboratory Guide and Class Manual in Qualitative Chemical Analysis Harry Sands Grindley, 1906

Reactions and Solubilities of Chemical Substances Involved in Qualitative Analysis Lawrence Carroll Olson, 1936

Chemical Principles with

Qualitative Analysis William L. Masterton, Emil J. Slowinski, 1978

Chemical Principles, with Qualitative Analysis William L. Masterton, Emil J. Slowinski, Conrad L. Stanitski, Jr., 1986-01

A Course in Qualitative Chemical Analysis (Classic Reprint) Charles Baskerville, 2015-06-30

Excerpt from *A Course in Qualitative Chemical Analysis*. The reception of this book by teachers of Qualitative Analysis calling for a number of reprintings of the first edition has been a source of gratification to the Authors. In the revision some changes and additions as indicated by the use of the book have been made. The original plan of the book, however, has been maintained. Some valuable suggestions from others have been utilized. The theory of Electrolytic Dissociation and the Law of Mass Action have been outlined. New methods, some proposed elsewhere and some developed by original work in our qualitative laboratories, have been incorporated. All of the new methods given have been thoroughly tried out. About the Publisher: Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at 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.

A Course of Qualitative Chemical Analysis William George Valentin, 1874

The Chemical Atlas of Tables Alphonse Normandy, 1857

The Elements of Qualitative Chemical Analysis Julius Stieglitz, 2018-08-26

Excerpt from *The Elements of Qualitative Chemical Analysis With Special Consideration of the Application of the Laws of Equilibrium and of the Modern Theories of Solution*. Part I of this book, which is in preparation, will contain the theoretical development of the subject of Qualitative Chemical Analysis as presented in the lectures of the author in the University of Chicago for the last thirteen years. It will include a discussion of the development and experimental foundations of the modern theories of solution, of the application of the laws of chemical and physical equilibrium to reactions used in analytical chemistry, of the theory of complex ions and of the electric theory of oxidation and reduction, all with special attention to substantiating the theoretical treatment by lecture experiments. Parts II and III, which are given in the present

book include the instructions for laboratory work introductory to systematic analysis and for systematic analysis The attempt has been made in particular to bring the laboratory work which otherwise follows the usual lines of instruction in systematic analysis also into closest relations to the development of the scientific foundations of analytical chemistry as presented in Part I It is believed that the subject matter lends itself especially well to such a close interweaving of the two sides of the study without any special loss of time to the student and with the result it is hoped of a greatly increased interest on his part and an increased stimulus of the habit of scientific thought About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at 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

Qualitative Chemical Analysis Louis Kahlenberg, James Henri Walton, 1915 *Outlines of Qualitative Chemical Analysis (Classic Reprint)* Frank Austin Gooch, 2015-06-29 Excerpt from Outlines of Qualitative Chemical Analysis This brief outline of methods in Qualitative Analysis is the outcome of many years experience in college teaching While it has been prepared to meet the requirements of that larger class whose concern is chiefly with the disciplinary side of the study or with general preparation for other lines of work the needs of the specialist in exact analysis have likewise been considered So far as possible simple methods of treatment are presented but certainty of result under all circumstances has been made the main issue To this end some more elaborate processes like the basic acetate process for the separation of aluminium iron and chromium from the elements of the calcium group in presence or absence of phosphates have been introduced in the interest of exactness as well as directness experience having shown that the properly instructed beginner finds little difficulty and much advantage in such methods frequently shunned in elementary work though indispensable to the practical chemist About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at 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

Problems for General Chemistry and Qualitative Analysis Carl John Nyman, George Brooks King, 1966

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