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excerpt from tables for qualitative chemical analysis in adapting an elementary course of chemical analysis to this purpose the accompanying tables seemed peculiarly suited whilst compact they are sufficiently explicit and the summary view of the general course of qualitative analysis and of the classification of compounds according to the properties relied upon for their detection affords a thread as it were around which chemical facts may crystallize as they accumulate for details of properties c in addition to instruction in the laboratory the student is constantly referred to some one of the manuals of analytical chemistry placed in the laboratory for this purpose about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from a manual of qualitative chemical analysis it has been the intention of the authors in writing the present work to prepare a complete manual of qualitative chemical analysis for the use of laboratory students while it is hoped that more advanced experimenters also will find in it ample information concerning the rarer subjects of research in attempting to accomplish this double purpose care has been taken to avoid perplexing the beginner with the descriptions of the less common substances with this intention such descriptions are printed in small type the present volume is not an account of general chemistry nor does it contain descriptions of the apparatus employed or of technical processes for information on these points reference must be made to special treatises but it aims to be a complete and systematic guide to qualitative analysis and to represent the present condition of this department of chemical science about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from elements of qualitative and quantitative chemical analysis in this work the author has brought together what has already been published separately in the manual of qualitative chemical analysis by himself and dr s m babcock and the notes on chemical analysis by himself alone he has added thereto much matter on qualitative analysis all of parts iii and iv on quantitative analysis and nearly all of part v of course no such work as this can be satisfactorily

prepared without frequent reference to the standard treatises of prescott and johnson and of fresenius in one of which the whole subject of qualitative analysis is very thoroughly treated and in the other both qualitative and quantitative analysis the author would acknowledge his indebtedness to these works while claiming for himself at least some novelty in the arrangement of the matter as well as in some of the matter itself in this attempt to prepare a book that is much needed in his own laboratory also for valuable suggestions in the revision of the work for this edition he is indebted to professor dennis and instructors chamot and smith of the university certain modifications in the spelling of chemical terms adopted after very careful consideration by the chemical section of the american association for the advancement of science are used in this book about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from introduction to qualitative chemical analysis second division of second group a formic acid sec 143 b acetic acid sec 144 summary and remarks sec 145 about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 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 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 use the latest methods and techniques to conduct effective qualitative chemical analysis with this comprehensive guide whether in the classroom or in the lab this book offers everything you need to know to perform and understand qualitative chemical 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 excerpt from a course in qualitative chemical analysis detailed methods for the preparation of solutions of definite strength are given for the assistance of the instructor the value of introducing preliminary experiments in a course in qualitative analysis is a mooted question we believe that they should be restricted to those which are utilized in the schemes of separation experience has shown us that it is a good plan to have in the laboratory several sets of bottles containing solutions of known strength of the salts of the various metals the students are encouraged to use these to verify any of the preliminary tests in case of doubt by comparing in special cases the results obtained with known solutions with those obtained with the unknown a definite knowledge of that particular reaction is fixed in the student's mind students should be encouraged to use short cuts and the use of the preliminary test as a means of indicating short cuts about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from tables for qualitative chemical analysis with an introductory chapter on the course of analysis for details of properties etc in addition to instruction in the laboratory the student is constantly referred to some one of the manuals of analytical chemistry placed in the laboratory for this purpose about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 this textbook provides a comprehensive introduction to qualitative chemical analysis drawing on the latest advances in the field noyes breaks down the analytical process into a series of manageable steps providing students with the skills and knowledge they need to succeed 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 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 excerpt from qualitative chemical analysis a laboratory guide the metals the groups reactions of the groups separation of the groups tabular outline of separation notes on separation hydrogen chloride group description of the elements lead mercury and silver laboratory tests and chemical reactions of the group procedure for separation of the group notes on the procedure about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from a systematic qualitative chemical analysis a theoretical and practical study of analytical reactions of the more common ions of inorganic substances in the preparation of this text the author has made use of information from all convenient sources including such textbooks on qualitative analysis as those of tread well hall a a noyes julius stieglitz and w a noyes to whom he wishes to acknowledge his indebtedness acknowledgment is also due to dr j f g hicks stan ford university and to miss m dewar university of nevada for helpful criticism and assistance about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from a detailed course of qualitative chemical analysis of inorganic substances with explanatory notes some explanation of the origin and purpose of the present work is necessary it arose out of the difficulty experienced in attempting to give a thorough course of qualitative analysis in limited time to large classes of students the smaller text books on the subject are too elementary in character to use in connection with such a course they devote too little attention to the precautions to be observed to insure delicacy of the reactions to the difficulties encountered by the student in actual work and to the modifications of the process required in special cases on the other hand the manual of fresenius though complete and very valuable as a work of reference is confusing to beginners on account of the complexity of its arrangement and insufficient explanation of the purposes of the various operations the attempt has been made in the following pages to present an almost equally thorough scheme of qualitative analysis in a more concise and readily intelligible form the process of analysis here given was based originally on that of fresenius but it has undergone a number of important modifications suggested by experience with it in the laboratory among these may be specially mentioned the directions for the preparation of the substance for analysis and those for testing for acids which have been made as distinct and definite as possible for it is with these two parts of the process that the greatest difficulty is usually experienced about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 excerpt from qualitative chemical analysis a guide in the practical study of chemistry and in the work the first

edition of this work appeared in 1878 the second revised edition in 1876 and the third in 1880 with the first edition were incorporated the tables for qualitative analysis by professor silas h douglas editions of which had appeared in 1864 1865 and 1868 professor douglas having some years since retired from engagements in chemistry and being by his long and most valuable services in chemical education well entitled to release now withdraws his name from the authorship of this work about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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 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 was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work 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 as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc 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 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 was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work 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 as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc 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

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*A Course of Qualitative Chemical Analysis* 1874 excerpt from a manual of qualitative chemical analysis it has been the intention of the authors in writing the present work to prepare a complete manual of qualitative chemical analysis for the use of laboratory students while it is hoped that more advanced experimenters also will find in it ample information concerning the rarer subjects of research in attempting to accomplish this double purpose care has been taken to avoid perplexing the beginner with the descriptions of the less common substances with this intention such descriptions are printed in small type the present volume is not an account of general chemistry nor does it contain descriptions of the apparatus employed or of technical processes for information on these points reference must be made to special treatises but it aims to be a complete and systematic guide to qualitative analysis and to represent the present condition of this department of chemical science about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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** 1888 excerpt from elements of qualitative and quantitative chemical analysis in this work the author has brought together what has already been published separately in the manual of qualitative chemical analysis by himself and dr s m babcock and the notes on chemical analysis by himself alone he has added thereto much matter on qualitative analysis all of parts iii and iv on quantitative analysis and nearly all of part v of course no such work as this can be satisfactorily prepared without frequent reference to the standard treatises of prescott and johnson and of fresenius in

one of which the whole subject of qualitative analysis is very thoroughly treated and in the other both qualitative and quantitative analysis the author would acknowledge his indebtedness to these works while claiming for himself at least some novelty in the arrangement of the matter as well as in some of the matter itself in this attempt to prepare a book that is much needed in his own laboratory also for valuable suggestions in the revision of the work for this edition he is indebted to professor dennis and instructors chamot and smith of the university certain modifications in the spelling of chemical terms adopted after very careful consideration by the chemical section of the american association for the advancement of science are used in this book about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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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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 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

Tables for Qualitative Chemical Analysis (Classic Reprint) 2018-01-07 use the latest methods and techniques to conduct effective qualitative chemical analysis with this comprehensive guide whether in the classroom or in the lab this book offers everything you need to know to perform and understand qualitative chemical 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

*Tables for Qualitative Chemical Analysis* 1874 excerpt from a course in qualitative chemical analysis detailed methods for the preparation of solutions of definite strength are given for the assistance of the instructor the value of introducing preliminary experiments in a course in qualitative analysis is a mooted question we believe that they should be restricted to those which are utilized in the schemes of separation experience has shown us that it is a good plan to have in the laboratory several sets of bottles containing solutions of known strength of the salts of the various metals the students are encouraged to use these to verify any of the preliminary tests in case of doubt by comparing in special cases the results obtained with known solutions with those obtained with the unknown a definite knowledge of that particular reaction is fixed in the student's mind students should be encouraged to use short cuts and the use of the preliminary test as a means of indicating short cuts about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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

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**An Introduction to Qualitative Chemical Analysis and the Related Chemical Principles** 1928 excerpt from tables for qualitative chemical analysis with an introductory chapter on the course of analysis for details of properties etc in addition to instruction in the laboratory the student is constantly referred to some one of the manuals of analytical chemistry placed in the laboratory for this purpose about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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

*Elements of Qualitative Chemical Analysis* 1921 this textbook provides a comprehensive introduction to qualitative chemical analysis drawing on the latest advances in the field noyes breaks down the analytical process into a series of manageable steps providing students with the skills and knowledge they need to succeed 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

*A Manual of Qualitative Chemical Analysis* 2015-06-25 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

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**Qualitative Chemical Analysis** 1913 excerpt from a systematic qualitative chemical analysis a theoretical and practical study of analytical reactions of the more common ions of inorganic substances in the preparation of this text the author has made use of information from all convenient sources including such textbooks on qualitative analysis as those of tread well hall a a noyes julius stieglitz and w a noyes to whom he wishes to acknowledge his indebtedness acknowledgment is also due to dr j f g hicks stanford university and to miss m dewar university of nevada for helpful criticism and assistance about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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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the directions for the preparation of the substance for analysis and those for testing for acids which have been made as distinct and definite as possible for it is with these two parts of the process that the greatest difficulty is usually experienced about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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

*The Elements of Qualitative Chemical Analysis* 1924 excerpt from qualitative chemical analysis a guide in the practical study of chemistry and in the work the first edition of this work appeared in 1878 the second revised edition in 1876 and the third in 1880 with the first edition were incorporated the tables for qualitative analysis by professor silas h douglas editions of which had appeared in 1864 1865 and 1868 professor douglas having some years since retired from engagements in chemistry and being by his long and most valuable services in chemical education well entitled to release now withdraws his name from the authorship of this work about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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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*The Compendious Manual of Qualitative Chemical Analysis* 2015-06-28

*A Detailed Course of Qualitative Chemical Analysis of Inorganic Substances, with Explanatory Notes* 1897

**Manual of Qualitative Chemical Analysis** 1858

**A Compendious Manual of Qualitative Chemical Analysis** 1868

**MANUAL OF QUALITATIVE CHEMICAL ANALYSIS** 2018

**Qualitative Chemical Analysis** 2023-07-18

*Qualitative Chemical Analysis. A Guide in the Practical Study of Chemistry and in the Work of Analysis ... Second Edition, Revised.* 1880

*A Course in Qualitative Chemical Analysis (Classic Reprint)* 2017-10-11

*A System of Instruction in Qualitative Chemical Analysis* 1869

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*Qualitative Chemical Analysis* 1928

**Elements of Qualitative Chemical Analysis** 1866

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A System of Instruction in Qualitative Chemical Analysis 1864

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*Qualitative Chemical Analysis* 2016-06-15

**A Systematic Qualitative Chemical Analysis** 1926

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