Gravimetric Analysis Of A Chloride Salt

REVEALING SECRET INSIGHTS OF *Gravimetric Analysis Of A Chloride Salt*

Synopsis from derivid.route1.com *by Gates & Anna*

GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT SUMMARY: UNLOCK YOUR FOLLOWING LITERARY JOURNEY WITH OUR CONCISE REVIEWS

At derivid.route1.com, we are devoted to aiding you discover your following great checked out by supplying concise and informative Gravimetric Analysis Of A Chloride Salt book summaries in various styles. Whether you're a passionate viewers or an informal book lover, our recaps supply a look right into the globe of each book, enabling you to make educated decisions regarding what to read next.

Gravimetric Analysis Of A Chloride Salt recaps cover a wide variety of styles, including gripping thrillers, informative non-fiction, heartfelt romances, and extra. With our testimonials, you'll get crucial insights right into the major motifs, characters, and plot points that make each publication one-of-a-kind.

Whether you're seeking your following literary adventure or merely want to check out various categories, Gravimetric Analysis Of A Chloride Salt recaps are the ideal starting point. So why wait? Beginning discovering our recaps today and unlock your following terrific read!

GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT

Our book recaps offer far more than a quick review of the plot - we delve into the heart of the tale and reveal the key insights that make each publication one-of-a-kind. Whether it's a page-turning thriller or an introspective memoir, we offer a taste of Gravimetric Analysis Of A Chloride Salt essence to aid you decide if it's the best suitable for you.

Comprehending Personalities in Gravimetric Analysis Of A Chloride Salt

Characters are the driving force of the tale, and we take a closer check out their individualities, motivations, and partnerships. With our character evaluations, you can get a much better understanding of their functions in Gravimetric Analysis Of A Chloride Salt tale and exactly how they add to the overall narrative.

Diving right into Styles

Styles are the underlying messages or ideas that the author communicates through the tale. We check out the main styles of each book, highlighting the author's message and supplying understandings right into how it might relate to your life.

Exploring Gravimetric Analysis Of A Chloride Salt Story Factors

Gravimetric Analysis Of A Chloride Salt plot is the sequence of occasions that drive the story forward. We damage down the primary plot points, supplying a review of the tale's structure and highlighting vital moments that form the narrative.

> "With our understandings, you can get a taste of Gravimetric Analysis Of A Chloride Salt's significance and choose if it's the appropriate fit for you."

Comparing and Contrasting

For publications within the very same category, we provide relative analyses to display their resemblances and differences. This enables you to get a much better understanding of the various methods authors take within a particular style.

Discovering Hidden Treasures in Gravimetric Analysis Of A Chloride Salt

Some books might not have received as much interest as they should have, and we love to discover hidden treasures. Gravimetric Analysis Of A Chloride Salt recaps display standout publications that might have flown under your radar - we ensure you'll locate something to contribute to your analysis listing.

With our essential understandings, you can make informed choices about what to review following. Gravimetric Analysis Of A Chloride Salt provide a glimpse into the globe of each book, enabling you to uncover brand-new writers and genres with ease.

GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT STYLE EXPLORATION

In this area, we take a closer take a look

at different categories of Gravimetric Analysis Of A Chloride Salt and their equivalent recaps. We recognize that visitors have distinct choices and preferences, so we offer a varied series of Gravimetric Analysis Of A Chloride Salt publication to satisfy every passion. Whether you're a fan of love, science fiction, enigma, historical fiction, or self-help, our book summaries provide a glimpse right into the world of each publication.

Begin Checking out Gravimetric Analysis Of A Chloride Salt Today

These are just a couple of instances of our publication summaries within different genres. We have many more publications waiting for you to discover. Look into our recaps to discover your brand-new favorite author or category. Delighted analysis!

REVEAL YOUR NEXT WONDERFUL READ OF GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT

In this area, we have actually curated a collection of standout Gravimetric Analysis Of A Chloride Salt that will assist you discover your following fantastic read. Whether you're in the state of mind for a heart-wrenching romance or a spine-tingling thriller, our book summaries supply a peek into the world of each publication, permitting you to make enlightened decisions regarding what to check out next.

Our Top Picks

Here are our leading picks for your following wonderful read:

Publication Title	Writer	Genre Recap
Historic Fiction	A hauntingly beautiful tale of two sisters in Nazi-occupied France that discovers the power of love, family members, and durability in the face of adversity.	
Emotional Thriller	A fascinating emotional thriller that complies with a criminal psychotherapist as he tries to untangle the secret behind his patient's silence after she supposedly murders her hubby.	
Philosophical Fiction	A mystical and spiritual trip that adheres to a young Andalusian guard young boy as he lays out to accomplish his destiny and discover the true meaning of life.	

These 3 books are simply a tiny example of the many great reads waiting to be found. Trust fund our publication summaries to direct you towards your following literary experience.

In addition to our top choices, we offer a wide range of publication recaps extending various styles, from sci-fi to self-help. With our summaries, you make sure to locate your next preferred book like Gravimetric Analysis Of A Chloride Salt.

So what are you waiting on? Start checking out Gravimetric Analysis Of A Chloride Salt recaps today and uncover surprise literary gems that will maintain you transforming the web pages well into the evening!

TRICK TAKEAWAYS OF GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT AND REFERRALS

Our publication recaps not just supply brief reviews of each book, however they also use Gravimetric Analysis Of A Chloride Salt vital takeaways and referrals to direct you in your analysis journey. Below are some of our leading choices:

Publication Title	Key Takeaways	Referrals
• The unstable narrator develops a feeling of secret and thriller throughout guide. • The styles of dependency and residential abuse are explored comprehensive. • The story twists maintained us on the side of our seats till the very last page.	• If you appreciated this publication, check out Into the Water by Paula Hawkins for another thrilling mystery. • Gone Woman by Gillian Flynn is an additional popular psychological thriller with a twisty plot.	
• The book highlights the importance of living in the here and now moment and letting go of previous and future fears. • The idea of the "pain body" is introduced to explain just how past injuries can impact our present experiences. • Practical exercises are given to aid visitors apply the teachings into their day-to-days live.	• The Untethered Spirit by Michael A. Singer supplies similar understandings on living in today moment and searching for internal tranquility. • Big Magic by Elizabeth Gilbert explores the imaginative procedure and exactly how we can live a much more fulfilling life by welcoming our interests.	
• The book informs a powerful tale of two siblings residing in Nazi-occupied France throughout World War II. • The motifs of nerve, sacrifice, and love are discovered with the perspectives of both sisters. • The historical context and vivid descriptions make the story revived.	• All the Light We Can not See by Anthony Doerr is an additional The second world war story that informs a relocating tale of love and survival. • If you enjoy historical fiction, attempt The Alice Network by Kate Quinn, which adheres to a network of female spies during World War I.	

At derivid.route1.com, you'll locate a lot more book recaps and suggestions that satisfy your passions and reading choices. Whether you're looking for a thrilling page-turner, a provocative

narrative, or a heartfelt romance, we have actually obtained you covered. Allow us assist you discover your following excellent read!

BEGINNING DISCOVERING GRAVIMETRIC ANALYSIS OF A CHLORIDE SALT TODAY

Since you have actually seen what we have to use, it's time to begin exploring Gravimetric Analysis Of A Chloride Salt recaps! Our recaps offer you a preference of each book's special significance and can aid you find your following fantastic read. Whether you're a follower of crime thrillers, historical fiction, or self-help books, we have a recap for you.

Our recaps provide essential insights into each book's themes, characters, and story points. You can obtain a sense of Gravimetric Analysis Of A Chloride Salt composing design and determine if it's the appropriate suitable for you. We've curated the most effective publications from various genres, so you make sure to locate something that matches your interests.

Just how to Use Our Summaries

To start exploring, merely surf our site and click on Gravimetric Analysis Of A Chloride Salt recaps that catch your eye. Our summaries are brief, so you can swiftly get a feeling of each book without spending way too much time. If a recap piques your rate of interest, you can click the web link to purchase the book from an on the internet retailer.

Our publication recaps are excellent for anyone who intends to stay informed concerning the latest literary fads yet doesn't have the moment to review Gravimetric Analysis Of A Chloride Salt book. By discovering our summaries, you can stay on top of what's prominent and find covert treasures that you could not have found otherwise.

Join Our Area

When you check out Gravimetric Analysis Of A Chloride Salt summaries, you're not just finding brand-new books; you're likewise joining a community of like-minded visitors. Our site features a blog where we upload write-ups regarding the current literary news, book reviews, and reading tips. You can also follow us on social networks to stay current with our most recent offerings.

So what are you awaiting? Start exploring Gravimetric Analysis Of A Chloride Salt recaps today and discover your following great read!

Gravimetric Analysis

International Series of Monographs on Analytical Chemistry *Elsevier*
Analytical Chemistry, Volume 7: Gravimetric Analysis, Part II describes the experimental procedures for the gravimetric analysis of Groups I to V cations. This book is composed of 43 chapters that also present sample preparation, separation, and precipitation protocols. The first six chapters include Group I cations, such as silver, lead, mercury, copper, bismuth, and cadmium, followed by chapters on Group II cations, including arsenic, antimony, tin, germanium, gold, platinum, selenium, and tellurium. The subsequent chapters explore the

gravimetric determination of Group III cations, namely, aluminum, iron, chromium, nickel, cobalt, zinc, manganese, titanium, zirconium, hafnium, thorium, scandium, niobium and tantalum, molybdenum, tungsten, vanadium, uranium, thallium, indium, gallium, and beryllium. The remaining chapters are devoted to analysis of various forms of Groups IV and V cations. This book will prove useful to analytical and inorganic chemists, teachers, and students in the allied fields.

Gravimetric Analysis

Introductory Titrimetric and Gravimetric Analysis

The Commonwealth and International Library: Chemistry Division *Elsevier*

Introductory Titrimetric and Gravimetric Analysis discusses the different types of titration and the weighing of different solutions in solid form. Coverage is made on acid- base titration, argentometric titrations, and oxidation- reduction titrations. Iodometric titrations and complexometric titrations are also explained. Extensive discussion on each of the titration method, along with some examples and laboratory experiments, is given. The process of weight measurement of damp powder is one example of the experiments. The book is a manual that guides a student to the correct ways of conducting an experiment made on such solutions as sodium hydroxide using hydrochloric acid and oxalic acid. Outcome of such experiments in terms of composition, weight of solutions, and measurement of pressure in certain environment is tabulated and briefly explained. Logarithms and antilogarithms are included at the end of the book. The text will serve as a good laboratory manual for students preparing for science examination as well as for chemists and chemical engineers.

An Introductory Course of Quantitative Chemical Analysis

CONTENTS PART I. INTRODUCTION SUBDIVISIONS OF ANALYTICAL CHEMISTRY GENERAL DIRECTIONS Accuracy and Economy of Time; Notebooks; Reagents; Wash-bottles; Transfer of Liquids PART II. VOLUMETRIC ANALYSIS GENERAL DISCUSSION Subdivisions; The Analytical Balance; Weights; Burettes; Calibration of Measuring Devices GENERAL DIRECTIONS Standard and Normal Solutions !I. Neutralization Methods! ALKALIMETRY AND ACIDIMETRY Preparation and Standardization of Solutions; Indicators STANDARDIZATION OF HYDROCHLORIC ACID DETERMINATION OF TOTAL ALKALINE STRENGTH OF SODA ASH DETERMINATION OF ACID STRENGTH OF OXALIC ACID !II. Oxidation Processes! GENERAL DISCUSSION BICHROMATE PROCESS FOR THE DETERMINATION OF IRON DETERMINATION OF IRON IN LIMONITE BY THE BICHROMATE PROCESS DETERMINATION OF CHROMIUM IN CHROME IRON ORE PERMANGANATE PROCESS FOR THE DETERMINATION OF IRON DETERMINATION OF IRON IN LIMONITE BY THE PERMANGANATE PROCESS DETERMINATION OF IRON IN LIMONITE BY THE ZIMMERMANN-REINHARDT PROCESS DETERMINATION OF THE OXIDIZING POWER OF PYROLUSITE IODIMETRY DETERMINATION OF COPPER IN ORES DETERMINATION OF ANTIMONY IN STIBNITE CHLORIMETRY DETERMINATION OF AVAILABLE CHLORINE IN BLEACHING POWDER !III.

Precipitation Methods! DETERMINATION OF SILVER BY THE THIOCYANATE PROCESS PART III. GRAVIMETRIC ANALYSIS GENERAL DIRECTIONS Precipitation; Funnels and Filters; Filtration and Washing of Precipitates; Desiccators; Crucibles and their Preparation for Use; Ignition of Precipitates DETERMINATION OF CHLORINE IN SODIUM CHLORIDE DETERMINATION OF IRON AND OF SULPHUR IN FERROUS AMMONIUM SULPHATE DETERMINATION OF SULPHUR IN BARIUM SULPHATE DETERMINATION OF PHOSPHORIC ANHYDRIDE IN APATITE ANALYSIS OF LIMESTONE Determination of Moisture; Insoluble Matter and Silica; Ferric Oxide and Alumina; Calcium; Magnesium; Carbon Dioxide ANALYSIS OF BRASS Electrolytic Separations; Determination of Lead, Copper, Iron and Zinc. DETERMINATION OF SILICA IN SILICATES PART IV. STOICHIOMETRY SOLUTIONS OF TYPICAL PROBLEMS PROBLEMS ..... A complete chemical analysis of a body of unknown composition involves the recognition of its component parts by the methods of !qualitative analysis!, and the determination of the proportions in which these components are present by the processes of !quantitative analysis!. A preliminary qualitative examination is generally indispensable, if intelligent and proper provisions are to be made for the separation of the various constituents under such conditions as will insure accurate quantitative estimations.

Analysis of Sodium Chloride for Industrial Use. Method for Determination of Sulphate Content
Sodium chloride, Industrial, Determination of content, Sulfates, Solvent extraction methods, Precipitation methods, Gravimetric analysis, Chemical analysis and testing, Testing conditions, Combustion test methods, Reproducibility

Gravimetric Analysis

International Series of Monographs in Analytical Chemistry *Elsevier*
Gravimetric Analysis, Part III describes the experimental procedures for the gravimetric analysis of various compounds. This book is composed of 13 chapters that also present sample preparation protocols. The first four chapters survey the steps for halogen compound determination. The succeeding chapters provide the procedures for gravimetric determination of cyanide, thiocyanate ions, sulfur, nitrogen, phosphorus, carbon, silicon, and boron. The final chapter considers other aspects of gravimetric experiments, including apparatus cleaning, reagents, and numerical calculation of the result. This book will prove useful to analytical and inorganic chemists, teachers, and students in the allied fields.

Determination of Platinum in Platinum Jewellery Alloys. Gravimetric Method After Reduction with Mercury(I) Chloride
Platinum alloys, Jewellery, Determination of content, Platinum, Reduction methods, Combustion test methods, Gravimetric analysis, Precipitation methods, Chemical analysis and testing, Quantitative analysis, Test equipment

Getting Past the Affair

A Program to Help You Cope, Heal, and Move On -- Together or Apart *Guilford Press*

Discovering that a partner has been unfaithful hits you like an earthquake. Long after the first jolt, emotional aftershocks can make it difficult to be there for your family, manage your daily life, and think clearly about your options. Whether you want to end the relationship or piece things back together, Getting Past the Affair guides you through the initial trauma so you can understand what happened and why before deciding how to move forward. Based on the only program that's been tested--and proven--to relieve destructive emotions in the wake of infidelity, this compassionate book offers support and expert advice from a team of award-winning couple therapists. If you stay with your spouse, you'll find realistic tips for rebuilding your marriage and restoring trust. But no matter which path you choose, you'll discover effective ways to recover personally, avoid lasting scars, and pursue healthier relationships in the future. Association for Behavioral and Cognitive Therapies (ABCT) Self-Help Book of Merit

The Analytical Chemistry of Tantalum and Niobium

The Analysis of Their Minerals and the Application of Tannin in Gravimetric Analysis, Based Upon Original Researches

Supplementary Notes on Gravimetric Analysis for Beginners

Determination of Sulphates ...

An Introductory Course of Quantitative Chemical Analysis

With Explanatory Notes and Stoichiometrical Problems

Calculations of Quantitative Chemical Analysis

Chemical News and Journal of Industrial Science

Analytical Chemistry *John Wiley & Sons*
The 7th Edition of Gary Christian's Analytical Chemistry focuses on more in-depth coverage and information about Quantitative Analysis (aka Analytical Chemistry) and related fields. The content builds upon previous editions with more enhanced content that deals with principles and techniques of quantitative analysis with more examples of analytical techniques drawn from areas such as clinical chemistry, life sciences, air and water pollution, and industrial analyses.

Water Quality. Physical, Chemical and Biochemical Methods. Method for the Determination of Sulphate Using Barium Chloride and Gravimetry
Water, Quality, Seawater, Trade effluents, Water testing, Chemical analysis and testing, Determination of content, Sulfates, Gravimetric analysis, Testing conditions, Interferences (chemical), Reproducibility, Precipitation methods

Classic Chemistry Demonstrations *Royal Society of Chemistry*
Classic Chemistry Demonstrations is an essential, much-used resource book for all chemistry teachers. It is a collection of chemistry experiments, many well-known others less so, for demonstration in front of a class of students from school to undergraduate age. Chemical demonstrations fulfil a number of important functions in the teaching

process where practical class work is not possible. Demonstrations are often spectacular and therefore stimulating and motivating, they allow the students to see an experiment which they otherwise would not be able to share, and they allow the students to see a skilled practitioner at work. Classic Chemistry Demonstrations has been written by a teacher with several years' experience. It includes many well-known experiments, because these will be useful to new chemistry teachers or to scientists from other disciplines who are teaching some chemistry. They have all been trialled in schools and colleges, and the vast majority of the experiments can be carried out at normal room temperature and with easily accessible equipment. The book will prove its worth again and again as a regular source of reference for planning lessons.

Handbook of Environmental Analysis

Chemical Pollutants in Air, Water, Soil, and Solid Wastes, Third Edition *CRC Press*
The Handbook will cover all aspects of environmental analysis and will examine the emergence of many new classes of pollutants in recent years. It will provide information on an array of topics from instrumentation, analytical techniques, and sample preparations to statistical calculations, chemical structures, and equations. It will present the tools and techniques required to measure a wide range of toxic pollutants in our environment. It will be fully revised throughout, and will add four new chapters (Microbial Analysis, Chlorophyll, Chlorine, Chloramines and Chlorine Dioxide, and Derivatization Reactions in Environmental Analysis).

Basic Experimental Chemistry

A Laboratory Manual for Beginning Students *Benjamin-Cummings Publishing Company*
Laboratory practices and operations; Weighing an unlnown with the two-pan anlytical balance; Gravimetric determination of water; Gravimetric determination of total residue of dissolved solids in water; Analysis of silver-copper alloy; The atomic weight of chlorine, and the gravimetric analysis of silver or chlorine as silver chloride; Heat capacity and heat of fusion; Molecular weights by vapor density; Constant volume gas thermometer; Electrolysis of copper; The faraday; Determination of avogadro's number.

Chemistry 2e

Analytical Chemistry *Elsevier*
Analytical Chemistry, Second Edition covers the fundamental principles of analytical chemistry. This edition is organized into 30 chapters that present various analytical chemistry methods. This book begins with a core of six chapters discussing the concepts basic to all of analytical chemistry. The fundamentals, concepts, applications, calculations, instrumentation, and chemical reactions of five major areas of analytical chemistry, namely, neutralization, potentiometry, spectroscopy, chromatography, and electrolysis methods, are emphasized in separate chapters. Other chapters are devoted to a discussion of precipitation and complexes in analytical chemistry. Principles and applications and the relationship of these reactions to the other areas are stressed. The remaining chapters of this edition are devoted to the laboratory. A chapter discusses the

basic laboratory operations, with an emphasis on safety. This topic is followed by a series of experiments designed to reinforce the concepts developed in the chapters. This book is designed for introductory courses in analytical chemistry, especially those shorter courses servicing chemistry majors and life and health science majors.

Gravimetric Determination of Barium in Zirconium Metal and in Certain Zirconium Salts

Representative Procedures in Quantitative Chemical Analysis

Pharmaceutical Drug Analysis *New Age International*

Quantitative Chemical Analysis *Macmillan Higher Education*
The gold standard in analytical chemistry, Dan Harris' Quantitative Chemical Analysis provides a sound physical understanding of the principles of analytical chemistry and their applications in the disciplines.

Indexes to the Oak Ridge National Laboratory Master Analytical Manual

(1953--1962)

Analytical Chemistry of Organic Halogen Compounds *Pergamon*

Master Analytical Manual: Ionic methods

Environmental Sampling and Analysis

Lab Manual *Routledge*
This manual covers the latest laboratory techniques, state-of-the-art instrumentation, laboratory safety, and quality assurance and quality control requirements. In addition to complete coverage of laboratory techniques, it also provides an introduction to the inorganic nonmetallic constituents in environmental samples, their chemistry, and their control by regulations and standards. Environmental Sampling and Analysis Laboratory Manual is perfect for college and graduate students learning laboratory practices, as well as consultants and regulators who make evaluations and quality control decisions. Anyone performing laboratory procedures in an environmental lab will appreciate this unique and valuable text.

TID

Lab Manual for Zumdahl/Zumdahl's Chemistry, 9th *Cengage Learning*
Build skill and confidence in the lab with the 61 experiments included in this manual. Safety is strongly emphasized throughout the lab manual. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Analytical Chemistry

Experimental Inorganic Chemistry *CUP Archive*

History/Analytical Chemistist *CRC Press*
A reprint of the 1966 Pergamon Press edition, itself the English translation of the original Hungarian edition of 1960. A systematic, continuous description of the attempts to find the composition of substances and then apply them to

definite purposes. Included are essential biographical details of some 800 chemists, providing the personal stories behind the advances in analytical methods. Annotation copyright by Book News, Inc., Portland, OR

A Manual for the Chemical Analysis of Metals *ASTM International*

Standard Methods of Chemical Analysis

A Manual of Analytical Methods and General Reference for the Analytical Chemist and for the Advanced Student

Standard Methods of Chemical Analysis

Food Analysis Laboratory Manual *Springer Science & Business Media*
This second edition laboratory manual was written to accompany Food Analysis, Fourth Edition, ISBN 978-1-4419-1477-4, by the same author. The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

Fundamentals of Environmental Chemistry, Third Edition *CRC Press*
Written by an expert, using the same approach that made the previous two editions so successful, Fundamentals of Environmental Chemistry, Third Edition expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology, including green chemistry and industrial ecology. The new edition includes: Increased emphasis on the applied aspects of environmental chemistry Hot topics such as global warming and biomass energy Integration of green chemistry and sustainability concepts throughout the text More and updated questions and answers, including some that require Internet research Lecturers Pack on CD-ROM with solutions manual, PowerPoint presentations, and chapter figures available upon qualifying course adoptions The book provides a basic course in chemical science, including the fundamentals of organic chemistry and biochemistry. The author uses real-life examples from environmetnal chemistry, green chemistry, and related areas while maintaining brevity and simplicity in his explanation of concepts. Building on this foundation, the book covers environmental chemistry, broadly defined to include sustainability aspects, green chemistry, industrial ecology, and related areas. These chapters are organized around the five environmental spheres, the hydrosphere, atmosphere, geosphere, biosphere, and the anthrosphere. The last two chapters discuss analytical chemistry and its relevance to environmental chemistry. Manahan's clear, concise, and readable style makes the information accessible, regardless of the readers' level of chemistry knowledge. He demystifies the material for those who need the basics of chemical science for their trade,

profession, or study curriculum, as well as for readers who want to have an understanding of the fundamentals of sustainable chemistry in its crucial role in maintaining a livable planet.

Plastics. Homopolymer and Copolymer Resins of Vinyl Chloride. Determination of Volatile Matter (Including Water)

Plastics and rubber technology, Plastics, Polyvinyl chloride, Polymers, Chemical analysis and testing, Determination of content, Volatile matter determination, Gravimetric analysis, Testing conditions