



Halonium Ions

David Cook



Halonium Ions:

Onium Ions George A. Olah, Kenneth K. Laali, Qi Wang, G. K. Surya Prakash, 1998-08-11 Comprehensive and up to date coverage of onium ions an indispensable reference for academic and industrial chemists In Onium Ions Nobel Prize winning chemist George Olah joins forces with coauthors Kenneth Laali Qi Wang and G K Surya Prakash to offer an in depth look at the chemistry and reactions of these important electron deficient compounds While other texts have covered various individual types of onium ions this work addresses the structure and chemistry of numerous different classes of onium ions Contents include Discussions of well established classes of onium ions such as azonium oxonium sulfonium selenonium telluronium and phosphonium ions Coverage of more recent types from siliconium halonium and carbonium to carboxonium carbosulfonium and carbazonium ions Clear explanations of definition classification preparation and chemistry of each major group of onium ions An exploration of superelectrophilic activation of onium ions through contact with superacid media Enriched with numerous illustrations and a full listing of references for each chapter Onium Ions should be a staple text in the professional chemist s library

The Chemistry of Nonaqueous Solvents VB J.J. Lagowski, 2012-12-02 The Chemistry of Nonaqueous Solvents Volume V Acidic and Aprotic Solvents Part B covers the theoretical aspects of individual solvents in nonaqueous solution chemistry This volume is divided into five chapters The first two chapters discuss the purification structure physical properties electrochemistry solubilities and reactions of specific solvents including trifluoroacetic and halosulfuric acids Chapter 3 deals briefly with the preparations and properties of the interhalogens principally in the liquid state This chapter emphasizes their uses as nonaqueous solvents especially through extensive study of their acid base reactions Spectroscopic data and their contribution to the understanding of their solution chemistries are also considered Chapter 4 surveys the autoionization purification methods solubilities solvolytic reactions conductivity conductometric potentiometric spectrophotometric and visual titrations as well as the isolation of solid complexes in inorganic halides and oxyhalides Chapter 5 describes the solubility reactivity and spectroscopic data of molten salts This book is of value to analytical chemists and analytical chemistry teachers and students

Assigning Structures to Ions in Mass Spectrometry John L. Holmes, Christiane Aubry, Paul M. Mayer, 2006-12-26 Assigning Structures to Ions in Mass Spectrometry describes the tools currently available for determining gas phase ion structures It surveys current experimental methods for ion production and separation as well as those designed to reveal qualitative and quantitative aspects of gas phase ions It also examines how and when to apply computational chemistry and theoretical calculations Selected case studies illustrate specific challenges associated with ion structure assignment and thermochemical problems Bringing together key results collected over the past four decades the book contains the data for describing or identifying ions containing C alone and C with H O N S P halogens and small organic cations

Across Conventional Lines: Selected Papers Of George A Olah (In 2 Volumes) George A Olah, G K Surya Prakash, 2003-01-29 In the course of his distinguished career spanning about half a century George A Olah

winner of the 1994 Nobel Prize for Chemistry has been exceedingly prolific and has published more than 1000 scientific papers and 15 books and holds more than 100 patents This invaluable volume contains about 250 papers selected for their breadth and current importance *Superacid Chemistry* George A. Olah,G. K. Surya Prakash,Jean Sommer,Arpad Molnar,2009-03-26 The chemistry of superacids has developed in the last two decades into a field of growing interest and importance Now available in a new expanded second edition this definitive work on superacids offers a comprehensive review of superacids and discusses the development of new superacid systems and applications of superacids in the promotion of unusual reactions Covering Bronsted and Leurs superacids solid superacids carbocations heterocations and catalyzed reactions this timely volume is invaluable to professionals faculty and graduate students in organic inorganic and physical chemistry *Progress in Physical Organic Chemistry* Robert W. Taft,2009-09-17 Progress in Physical Organic Chemistry is dedicated to reviewing the latest investigations into organic chemistry that use quantitative and mathematical methods These reviews help readers understand the importance of individual discoveries and what they mean to the field as a whole Moreover the authors leading experts in their fields offer unique and thought provoking perspectives on the current state of the science and its future directions With so many new findings published in a broad range of journals Progress in Physical Organic Chemistry fills the need for a central resource that presents analyzes and contextualizes the major advances in the field The articles published in Progress in Physical Organic Chemistry are not only of interest to scientists working in physical organic chemistry but also scientists working in the many subdisciplines of chemistry in which physical organic chemistry approaches are now applied such as biochemistry pharmaceutical chemistry and materials and polymer science Among the topics explored in this series are reaction mechanisms reactive intermediates combinatorial strategies novel structures spectroscopy chemistry at interfaces stereochemistry conformational analysis quantum chemical studies structure reactivity relationships solvent isotope and solid state effects long lived charged sextet or open shell species magnetic non linear optical and conducting molecules and molecular recognition **Carbohydrate Chemistry and Biochemistry** Michael Sinnott,2016-02-01 This fully updated and expanded second edition of a highly popular text book focuses on the structure and mechanism in carbohydrate chemistry and biochemistry Carbohydrates play important roles in biological systems as energy sources as structural materials and as informational structures when they are often attached to proteins or lipids Their chemical reactivity and conformational behaviour is governed by mechanistic and stereochemical rules which apply as much to enzymic as to non enzymic reactivity The same principles of reactivity and conformation govern changes brought about in the process industries such as pulp paper and food Extensively referenced with citations and a detailed index the book contains everything the reader needs to know to start a carbohydrate research project with one of the real strengths being the treatment and integration of the important physical chemical principles and methods though lead references only are given to the finer points of carbohydrate synthesis The book is suitable for both researchers who are new

to the subject and those more established as well as a readership from diverse backgrounds and interests including chemists biochemists food scientists and technologists involved with the processing of polysaccharides in the paper textile cosmetics biofuels and other industries

Neighboring Group Participation Brian Capon, 2012-12-06 1 General Considerations 1 Introduction 1 1 Historical and General Description of Neighboring Group Effects 1 2 Terms and Definitions 2 Some Factors that Influence Anchimeric Assistance 2 1 The Stabilities of Bridged Carbocations Some Molecular Orbital Calculations 2 2 Hyperconjugation An Alternative Explanation 2 3 The Effect of Intramolecularity Ring Size and gem Dialkyl Effects 2 3 1 Ring Size 2 3 2 The gem Dialkyl Effect 3 Some Experimental Methods Used in the Study of Neighboring Group Participation 3 1 Kinetic Methods 3 1 1 Estimation of Reaction Rate

Perfluoroalkyl Substances Bruno Améduri, 2022-08-15
Perfluoroalkyl substances PFAS are a diverse group of human made chemicals that are used in a wide range of consumer and industrial products They are under intense scrutiny due to environmental concerns and there is a call to ban new PFASs entering the market That said this book is not intended to wave the banner against PFASs per se rather it provides a balanced overview of the field from basic synthesis through to applications why some current PFASs are and may remain the right substance for the job as well as addressing the challenges and alternatives Covering organofluorine chemistry to fluoropolymers and their applications in various sectors from biomedical to agrochemical energy and electrical industries this book is a solid introduction to the topic and demonstrates why fluorinated products are still useful in many domains With risk assessment and alternatives to PFASs included it provides a considered account of both the positive applications of PFASs and the pressing environmental concerns Suitable for academics and industrial practitioners working in the fields of organic and macromolecular chemistries it will also appeal to end users who want to learn about the technology applications and elimination or recycling of such fluorinated products

Halogen Bonding II Pierangelo Metrangolo, Giuseppe Resnati, 2015-06-01 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Review articles for the individual volumes are invited by the volume editors Readership research chemists at universities or in industry graduate students

The Chemistry of Hypervalent Halogen

Compounds, 2 Volume Set Berit Olofsson, Ilan Marek, Zvi Rappoport, 2019-04-29 Für das Verständnis der organischen Chemie muss man wissen, worum es sich bei funktionalen Gruppen handelt. Dieses Fachbuch steht ganz in der Tradition der Reihe Patai's Chemistry of Functional Groups. Jeder Band deckt sämtliche Aspekte funktionaler Gruppen ab und behandelt dabei theoretische, analytische, synthetische, biologische Aspekte sowie Belange der Industrie. Hypervalente Halogenverbindungen, insbesondere Jodverbindungen, sind besonders effiziente und selektive Oxidantien für eine Vielzahl funktionaler Gruppen. Die elektrophilen Eigenschaften dieser Reagenzien können auch für die Einführung anderer Funktionalisierungen verwendet werden. Dieser Band ist der erste in der Reihe, der die Eigenschaften und das chemische Verhalten von hypervalentem Jod und Brom, deren Einsatz in der organischen Synthese sowie deren industrielle Anwendung untersucht. Wie bei allen neuen Bänden werden die Kapitel zunächst online in Patai's Chemistry of Functional Groups veröffentlicht. Wenn ein Band online vervollständigt ist, erfolgt die Herausgabe als Printversion. Die Printfassung entspricht der Qualität, die man von der Patai-Reihe kennt, und bietet auch einen umfassenden Index.

Organic Reaction Mechanisms 2014 A. C. Knipe, 2017-11-27 Organic Reaction Mechanisms 2014, the 50th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2014. The following classes of organic reaction mechanisms are comprehensively reviewed: Reaction of Aldehydes and Ketones and their Derivatives; Reactions of Carboxylic, Phosphoric and Sulfonic Acids and their Derivatives; Oxidation and Reduction; Carbenes and Nitrenes; Nucleophilic Aromatic Substitution; Electrophilic Aromatic Substitution; Carbocations; Nucleophilic Aliphatic Substitution; Carbanions and Electrophilic Aliphatic Substitution; Elimination Reactions; Polar Addition Reactions; Cycloaddition Reactions; Molecular Rearrangements. An experienced team of authors compile these reviews every year so that the reader can rely on a continuing quality of selection and presentation. This volume includes a 5-year cumulative index.

Ion/Molecule Attachment Reactions: Mass Spectrometry Toshihiro Fujii, 2015-08-03 This book explores the mechanism of alkali metal ion-molecule association reactions, surveys the instrumental basis to study its kinetics, and describes the instrumentation to the measurement of alkali metal ion affinities. The applications of the ion-complexation mechanism in the condensed phase in reaction to direct analysis MS are also covered. Other topics include mechanism and reaction rate, experimental and theoretical ion affinities, applications of ion attachment reactions (IAR) to mass spectrometry such as alkali ion CIMS, ion attachment MS, and cationization mass spectrometry of ESI, FAB, FD, LD, MALDI, and SIMS, and topics of IAR-based direct analysis mass spectrometry.

Mass Spectrometry R. A. W. Johnstone, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields, the series creates a unique service for the active research chemist, supplying regular, critical, in-depth accounts of progress in particular areas of chemistry. For over 80 years, the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of

Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Asymmetric Synthesis II Mathias Christmann, Stefan Bräse, 2013-04-17 After the overwhelming success of *Asymmetric Synthesis The Essentials* displaying a broad range of organic asymmetric syntheses this is the second edition with latest subjects and authors While the aim of the first edition was mainly to honor the achievements of the pioneers in asymmetric syntheses the aim of this new edition was bringing the current developments especially from younger colleagues to the attention of students The format of the book remained unchanged i e short conceptual overviews by young leaders in their field including a short biography of the authors The growing multidisciplinary research within chemistry is reflected in the selection of topics including metal catalysis organocatalysis physical organic chemistry analytical chemistry and its applications in total synthesis materials research and industry The prospective reader of this book is a graduate or undergraduate student of advanced organic chemistry as well as the industrial chemist who wants to get a brief update on the current developments in the field

Advanced Organic Chemistry Francis A. Carey, Richard J. Sundberg, 2007-06-13 The two part fifth edition of *Advanced Organic Chemistry* has been substantially revised and reorganized for greater clarity The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry Part A covers fundamental structural topics and basic mechanistic types It can stand alone together with Part B Reaction and Synthesis the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for study of structure reaction and selectivity for students and exercise solutions for instructors

Superelectrophiles and Their Chemistry George A. Olah, Douglas A. Klumpp, 2008-01-03 *Superelectrophiles and Their Chemistry* contains for the first time a discussion of the basics of this emerging field of organic chemistry alongside tools to help the reader apply the chemistry Specific tools include an evaluation of the ways to increase the strength of electrophiles the classification of superelectrophiles the solvation issues a review of methods for studying superelectrophilicity with details of the superelectrophiles that have been identified and studied Additional information includes substituent effects in activation of superelectrophiles and solvation in chemical reactions as well as an insightful look into future applications

Modern Synthesis Processes and Reactivity of Fluorinated Compounds Henri Groult, Frederic Leroux, Alain Tressaud, 2016-11-04 *Modern Synthesis Processes and Reactivity of Fluorinated Compounds* focuses on the exceptional character of fluorine and fluorinated compounds This comprehensive

work explores examples taken from all classes of fluorine chemistry and illustrates the extreme reactivity of fluorinating media and the peculiar synthesis routes to fluorinated materials The book provides advanced and updated information on the latest synthesis routes to fluorocompounds and the involved reaction mechanisms Special attention is given to the unique reactivity of fluorine and fluorinated media along with the correlation of those properties to valuable applications of fluorinated compounds Contains quality content edited and contributed by leading scholars in the field Presents applied guidance on the preparation of original fluorinated compounds potentially transferable from the lab scale to industrial applications Provides practical synthesis information for a wide audience interested in fluorine compounds in many branches of chemistry materials science and physics

Halogen Bonding in Solution Stefan Huber, 2021-04-19 Long awaited on the importance of halogen bonding in solution demonstrating the specific advantages in various fields from synthesis and catalysis to biochemistry and electrochemistry Halogen bonding XB describes the interaction between an electron donor and the electrophilic region of a halogen atom Its applicability for molecular recognition processes long remained unappreciated and has mostly been studied in solid state until recently As most physiological processes and chemical reactions take place in solution investigations in solutions are of highest relevance for its use in organic synthesis and catalysis pharmaceutical chemistry and drug design electrochemistry as well as material synthesis Halogen Bonding in Solution gives a concise overview of halogen bond interactions in solution It discusses the history and electronic origin of halogen bonding and summarizes all relevant examples of its application in organocatalysis It describes the use of molecular iodine in catalysis and industrial applications as well as recent developments in anion transport and binding Hot topic Halogen bonding is an important interaction between molecules or within a molecule The field has developed considerably in recent years with numerous different approaches and applications having been published Unique There are several books on halogen bonding in solid state available but this will be the first one focused on halogen bonding in solution Multi disciplinary Summarizes the history and nature of halogen bonding in solution as well as applications in catalysis anion recognition biochemistry and electrochemistry Aimed at facilitating exciting future developments in the field Halogen Bonding in Solution is a valuable source of information for researchers and professionals working in the field of supramolecular chemistry catalysis biochemistry drug design and electrochemistry

Chemistry David Cook, 2004-05 Lotus Press

The book delves into Halonium Ions. Halonium Ions is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Halonium Ions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Halonium Ions
- Chapter 2: Essential Elements of Halonium Ions
- Chapter 3: Halonium Ions in Everyday Life
- Chapter 4: Halonium Ions in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Halonium Ions. This chapter will explore what Halonium Ions is, why Halonium Ions is vital, and how to effectively learn about Halonium Ions.
3. In chapter 2, the author will delve into the foundational concepts of Halonium Ions. The second chapter will elucidate the essential principles that need to be understood to grasp Halonium Ions in its entirety.
4. In chapter 3, the author will examine the practical applications of Halonium Ions in daily life. This chapter will showcase real-world examples of how Halonium Ions can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Halonium Ions in specific contexts. This chapter will explore how Halonium Ions is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Halonium Ions. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Halonium Ions.

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