

Main Group Elements

Main group elements

The periodic table is divided into s-block and p-block elements. The s-block includes groups 1 and 2, while the p-block includes groups 13 through 18. The d-block (transition metals) and f-block (lanthanides and actinides) are shown in other colors.

¹ H Hydrogen																	² He Helium						
s-block																		p-block					
1	2											13	14	15	16	17	18						
³ Li Lithium	⁴ Be Beryllium											⁵ B Boron	⁶ C Carbon	⁷ N Nitrogen	⁸ O Oxygen	⁹ F Fluorine	¹⁰ Ne Neon						
¹¹ Na Sodium	¹² Mg Magnesium											¹³ Al Aluminium	¹⁴ Si Silicon	¹⁵ P Phosphorus	¹⁶ S Sulfur	¹⁷ Cl Chlorine	¹⁸ Ar Argon						
¹⁹ K Potassium	²⁰ Ca Calcium	²¹ Sc Scandium	²² Ti Titanium	²³ V Vanadium	²⁴ Cr Chromium	²⁵ Mn Manganese	²⁶ Fe Iron	²⁷ Co Cobalt	²⁸ Ni Nickel	²⁹ Cu Copper	³⁰ Zn Zinc	³¹ Ga Gallium	³² Ge Germanium	³³ As Arsenic	³⁴ Se Selenium	³⁵ Br Bromine	³⁶ Kr Krypton						
³⁷ Rb Rubidium	³⁸ Sr Strontium	³⁹ Y Yttrium	⁴⁰ Zr Zirconium	⁴¹ Nb Niobium	⁴² Mo Molybdenum	⁴³ Tc Technetium	⁴⁴ Ru Ruthenium	⁴⁵ Rh Rhodium	⁴⁶ Pd Palladium	⁴⁷ Ag Silver	⁴⁸ Cd Cadmium	⁴⁹ In Indium	⁵⁰ Sn Tin	⁵¹ Sb Antimony	⁵² Te Tellurium	⁵³ I Iodine	⁵⁴ Xe Xenon						
⁵⁵ Cs Cesium	⁵⁶ Ba Barium	⁵⁷⁻⁷¹ • Lanthanides	⁷² Hf Hafnium	⁷³ Ta Tantalum	⁷⁴ W Tungsten	⁷⁵ Re Rhenium	⁷⁶ Os Osmium	⁷⁷ Ir Iridium	⁷⁸ Pt Platinum	⁷⁹ Au Gold	⁸⁰ Hg Mercury	⁸¹ Tl Thallium	⁸² Pb Lead	⁸³ Bi Bismuth	⁸⁴ Po Polonium	⁸⁵ At Astatine	⁸⁶ Rn Radon						
⁸⁷ Fr Francium	⁸⁸ Ra Radium	⁸⁹⁻¹⁰³ • Actinides	¹⁰⁴ Rf Rutherfordium	¹⁰⁵ Db Dubnium	¹⁰⁶ Sg Seaborgium	¹⁰⁷ Bh Bohrium	¹⁰⁸ Hs Hassium	¹⁰⁹ Mt Meitnerium	¹¹⁰ Ds Darmstadtium	¹¹¹ Rg Roentgenium	¹¹² Cn Copernicium	¹¹³ Nh Nihonium	¹¹⁴ Fl Flerovium	¹¹⁵ Mc Moscovium	¹¹⁶ Lv Livermorium	¹¹⁷ Ts Tennessine	¹¹⁸ Og Oganesson						

• ⁵⁷La ⁵⁸Ce ⁵⁹Pr ⁶⁰Nd ⁶¹Pm ⁶²Sm ⁶³Eu ⁶⁴Gd ⁶⁵Tb ⁶⁶Dy ⁶⁷Ho ⁶⁸Er ⁶⁹Tm ⁷⁰Yb ⁷¹Lu

•• ⁸⁹Ac ⁹⁰Th ⁹¹Pa ⁹²U ⁹³Np ⁹⁴Pu ⁹⁵Am ⁹⁶Cm ⁹⁷Bk ⁹⁸Cf ⁹⁹Es ¹⁰⁰Fm ¹⁰¹Md ¹⁰²No ¹⁰³Lr

Main Group Chemistry

A. G. Massey



Main Group Chemistry:

Organo Main Group Chemistry Kin-ya Akiba, 2011-08-24 Forging a new association main group elements and organic chemistry Covering the essentials of all main group elements in organic chemistry along with the synthesis and reactions of their organic compounds in just one volume Organo Main Group Chemistry breaks important new ground While main group chemistry has traditionally been classified as part of inorganic chemistry this book establishes the organic chemistry of main group elements for the first time The organic compounds of elements in the second period of the periodic table which are centered around carbon are the major components of animals and plants while those in the third period and below also play key roles worthy of discussion when studying main group element chemistry The major chapters describe synthesis and reactivity of organic compounds in the third period and below and are arranged according to the order of the periodic table Starting with the role of lithium and magnesium cations the chapters reach fluorine and iodine compounds The first two chapters summarize the unique and common characteristics of main group elements in relation to carbon The latter chapters deal with modern topics that address the unique characteristics of organo main group compounds Suitable for professional researchers chemistry professors and advanced students Organo Main Group Chemistry presents a novel new approach to the way we view both main groups and organic chemistry itself

Chemistry of the Main Group Elements Andrew Barron, 2020-03-28 The main group elements represent the most prevalent elements in the Earth's crust as well as most of the key elements of life and have enormous industrial economic and environmental importance In this regard an understanding of the chemistry of the main group elements is vital for students within science engineering and medicine however it is hoped that those who make political and economic decisions would make better ones or at least more responsible ones if they had a fraction of the knowledge of the world around them

Main Group Chemistry W. Henderson, 2000 Main Group Chemistry covers the chemistry of the s and p block elements together with a brief chapter on the chemistry of zinc cadmium and mercury often classified as main group elements rather than as transition elements The Periodic Table is an important predictive tool in main group chemistry and in this book forms the basis for describing the trends and variations in the chemistry of the elements Introductory material covers the basic principles behind the Periodic Table bonding electronegativity and VSEPR Valence Shell Electron Pair Repulsion theory The chemistry of various groups of elements is then discussed The book incorporates a valuable chapter on inorganic polymers discussing the chemistry of materials such as silicates silicones phosphazenes and diamond Additional material is available on the website at www.rsc.org/tct Ideal for the needs of undergraduate chemistry students Tutorial Chemistry Texts is a major series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples

Main Group Chemistry A. G. Massey, 2000-12-27 Lately there has been much

interest in the chemistry of Main Group elements with novel compounds being synthesised both in academia and industry This book examines their synthesis structure and how they behave chemically The second edition follows the same structure as the first except that the biochemistry section has been removed to allow for the inclusion of a wide range of new material This includes complexation and the stabilization of unstable species new elements and isotopes discussion of for example pπ bonding in compounds of the heavier main group elements electronegativity of F bonding in sulfur and phosphorus oxo anions examples of new compounds developed around traditional models for example compounds in which multiply bonded C is replaced by Si and pentavalent organo derivatives of Group 15 All other information is fully revised and updated in the light of more recent data Where relevant the author indicates where gaps exist in current knowledge and offers non typical examples which are at the limits of current research The new edition is aimed at Honors and postgraduate students as well as researchers interested in Main Group elements and their compounds On the first edition This is a book I would recommend as background reading for undergraduates and postgraduates Education in Chemistry Chemistry in Britain This is a sound and sensible book coherently produced and well written The Times Higher Educational Supplement

Encyclopedia of Inorganic Chemistry, 10 Volume Set R. Bruce King, 2005-10-14 The ultimate resource on inorganic chemistry new and completely revised 10 years after publication of the First Edition The first edition of the Encyclopedia of Inorganic Chemistry treated the elements of the periodic system in alphabetical order with multiple entries for key elements The articles from the First Edition were written more than 10 years ago and all areas of inorganic chemistry have seen such a vigorous development that it was necessary to update most articles and to add a considerable number of new articles The result of this major work is the proud Encyclopedia of Inorganic Chemistry Second Edition EIC 2 New now includes colour 30% growth on previous edition now 6 640 pages published in 10 volumes EIC 2 continues to present articles in alphabetical order but the content has been slightly reorganized to the following subject areas Main Group Elements Transition Metals and Coordination Chemistry Organometallic Chemistry Bioinorganic Chemistry Solid State Materials Nanomaterials and Catalysis and General Inorganic Chemistry Theoretical and Computational Methods **Molecular Clusters of the Main Group Elements** Matthias Driess, Heinrich Nöth, 2008-11-21 With more than 20 contributions from leading research groups this book provides essential information for chemists and materials scientists working with molecular clusters It treats both homonuclear and heteronuclear clusters including the theory and concepts in main group cluster chemistry novel boranes and heteroboranes silicon germanium tin clusters alkali metal suboxides clusters in alloys with mercury chalcogen clusters and numerous other compound classes The whole is illustrated by examples of the great potential for technical applications such as electron storage cancer therapy and in optoelectronic devices Its systematic coverage of all relevant main group elements makes this the prime reference source in the field Inorganic Chemistry Gary Wulfsberg, 2000-03-16 This is a textbook for advanced undergraduate inorganic chemistry courses covering elementary inorganic reaction chemistry through

to more advanced inorganic theories and topics The approach integrates bioinorganic environmental geological and medicinal material into each chapter and there is a refreshing empirical approach to problems in which the text emphasizes observations before moving onto theoretical models There are worked examples and solutions in each chapter combined with chapter ending study objectives 40 70 exercises per chapter and experiments for discovery based learning The Chemical Bond Gernot Frenking, Sason Shaik, 2014-07-08 This is the perfect complement to Chemical Bonding Across the Periodic Table by the same editors who are two of the top scientists working on this topic each with extensive experience and important connections within the community The resulting book is a unique overview of the different approaches used for describing a chemical bond including molecular orbital based valence bond based ELF AIM and density functional based methods It takes into account the many developments that have taken place in the field over the past few decades due to the rapid advances in quantum chemical models and faster computers **Main Group Chemistry** A. G. Massey, 1990 Textbooks

Arrow Pushing in Inorganic Chemistry Abhik Ghosh, Steffen Berg, 2014-07-25 Involved as it is with 95% of the periodic table inorganic chemistry is one of the foundational subjects of scientific study Inorganic catalysts are used in crucial industrial processes and the field to a significant extent also forms the basis of nanotechnology Unfortunately the subject is not a popular one for undergraduates This book aims to take a step to change this state of affairs by presenting a mechanistic logical introduction to the subject Organic teaching places heavy emphasis on reaction mechanisms arrow pushing and the authors of this book have found that a mechanistic approach works just as well for elementary inorganic chemistry As opposed to listening to formal lectures or learning the material by heart by teaching students to recognize common inorganic species as electrophiles and nucleophiles coupled with organic style arrow pushing this book serves as a gentle and stimulating introduction to inorganic chemistry providing students with the knowledge and opportunity to solve inorganic reaction mechanisms The first book to apply the arrow pushing method to inorganic chemistry teaching With the reaction mechanisms approach arrow pushing students will no longer have to rely on memorization as a device for learning this subject but will instead have a logical foundation for this area of study Teaches students to recognize common inorganic species as electrophiles and nucleophiles coupled with organic style arrow pushing Provides a degree of integration with what students learn in organic chemistry facilitating learning of this subject Serves as an invaluable companion to any introductory inorganic chemistry textbook *Comprehensive Inorganic Chemistry II*, 2013-07-23 *Comprehensive Inorganic Chemistry II* Nine Volume Set reviews and examines topics of relevance to today's inorganic chemists Covering more interdisciplinary and high impact areas *Comprehensive Inorganic Chemistry II* includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work *Comprehensive Inorganic Chemistry* edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area *Comprehensive*

Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973 *The Group 13 Metals Aluminium, Gallium, Indium and Thallium* Simon Aldridge, Anthony J. Downs, 2011-04-11 The last two decades have seen a renaissance in interest in the chemistry of the main group elements In particular research on the metals of group 13 aluminium gallium indium and thallium has led to the synthesis and isolation of some very novel and unusual molecules with implications for organometallic synthesis new materials development and with biological medical and environmental relevance The Group 13 Metals Aluminium Gallium Indium and Thallium aims to cover new facts developments and applications in the context of more general patterns of physical and chemical behaviour Particular attention is paid to the main growth areas including the chemistry of lower formal oxidation states cluster chemistry the investigation of solid oxides and hydroxides advances in the formation of III V and related compounds the biological significance of Group 13 metal complexes and the growing importance of the metals and their compounds in the mediation of organic reactions Chapters cover general features of the group 13 elements group 13 metals in the 3 oxidation state simple inorganic compounds formal oxidation state 3 organometallic chemistry formal oxidation state 2 metal metal bonded vs mononuclear derivatives group 13 metals in the 1 oxidation state mixed or intermediate valence group 13 metal compounds aluminium and gallium clusters metalloid clusters and their relation to the bulk phases to naked clusters and to nanoscaled materials simple and mixed metal oxides and hydroxides solids with extended structures of different dimensionalities and porosities coordination and solution chemistry of the metals biological medical and environmental relevance III V and related semiconductor materials group 13 metal mediated organic reactions The Group 13 Metals Aluminium Gallium Indium and Thallium provides a detailed wide ranging and up to date review of the chemistry of this important group of metals It will find a place on the bookshelves of practitioners researchers and students working in

inorganic organometallic and materials chemistry Efficient Methods for Preparing Silicon Compounds Herbert W Roesky, 2016-05-12 Efficient Methods for Preparing Silicon Compounds is a unique and valuable handbook for chemists and students involved in advanced studies of preparative chemistry in academia and industry Organized by the various coordination numbers from two to six of the central silicon atom of the reported compounds this book provides researchers with a handy and immediate reference for any compound or properties needed in the area Edited by a renowned expert in the field each chapter explores a different type of compound thoroughly illustrated with useful schemes and supplemented by additional references Knowledgeable contributors report on a broad range of compounds on which they have published and which are already used on a broad scale or have the potential to be used in the very near future to develop a new field of research or application in silicon chemistry Includes contributions and edits from leading experts in the field Includes detailed chemical schemes and useful references for each preparative method Organized by the coordination numbers of the central silicon atom for each compound for easy navigation Serves as a go to primer for researchers in novel compositions of silicon matter Inorganic Chemistry of Main Group Elements R. Bruce King, 1995 Many chapters include the following a summary of the typical coordination number oxidation states bonding types etc found in the elements covered important properties of the free elements including a discussion of allotropic forms discussions of halides oxides oxyacids organometallic derivatives and other compound types in separate sections Main Group Elements and their Compounds Kumar V.G. Das, 1996-12-09 The book highlights some of the important present day roles played by Main Group Elements as well as their emergent new roles in the fields of materials science chemical synthesis and structure and biological cum environmental aspects Rarely can one find a single book on Main Group elements that comprehensively discusses their impact on fundamental and applied sciences with a multidisciplinary flavour while catering for the special interests of a wide cross section of readers Main Chemistry Group , 2000-04-19 Advances in Inorganic Chemistry presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry ranging from bioinorganic to solid state This acclaimed serial features reviews written by experts in the area and is an indispensable reference to advanced researchers Each volume of Advances in Inorganic Chemistry contains an index and each chapter is fully referenced **Inorganic Chemistry** James E. House, 2012-12-31 Inorganic Chemistry Second Edition provides essential information for students of inorganic chemistry or for chemists pursuing self study The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly The text emphasizes fundamental principles including molecular structure acid base chemistry coordination chemistry ligand field theory and solid state chemistry It is organized into five major themes structure condensed phases solution chemistry main group and coordination compounds with several chapters in each There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures to behavior of solids etc The textbook contains a balance of topics in

theoretical and descriptive chemistry For example the hard soft interaction principle is used to explain hydrogen bond strengths strengths of acids and bases stability of coordination compounds etc Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets This new edition features new and improved illustrations including symmetry and 3D molecular orbital representations expanded coverage of spectroscopy instrumental techniques organometallic and bio inorganic chemistry and more in text worked out examples to encourage active learning and to prepare students for their exams This text is ideal for advanced undergraduate and graduate level students enrolled in the Inorganic Chemistry course This core course serves Chemistry and other science majors The book may also be suitable for biochemistry medicinal chemistry and other professionals who wish to learn more about this subject area Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets

Frustrated Lewis Pairs II Gerhard Erker, Douglas W. Stephan, 2013-12-12 Frustrated Lewis Pairs From Dihydrogen Activation to Asymmetric Catalysis by Dianjun Chen Jürgen Klankermayer Coexistence of Lewis Acid and Base Functions A Generalized View of the Frustrated Lewis Pair Concept with Novel Implications for Reactivity by Heinz Berke Yanfeng Jiang Xianghua Yang Chunfang Jiang Subrata Chakraborty Anne Landwehr New Organoboranes in Frustrated Lewis Pair Chemistry by Zhenpin Lu Hongyan Ye Huadong Wang Paracyclophane Derivatives in Frustrated Lewis Pair Chemistry by Lutz Greb Jan Paradies Novel Al Based FLP Systems by Werner Uhl Ernst Ulrich Wirthwein N Heterocyclic Carbenes in FLP Chemistry by Eugene L Kolychev Eileen Theuergarten Matthias Tamm Carbon Based Frustrated Lewis Pairs by Shabana Khan Manuel Alcarazo Selective C H Activations Using Frustrated Lewis Pairs Applications in Organic Synthesis by Paul Knochel Konstantin Karaghiosoff Sophia Manolikakes FLP Mediated Activations and Reductions of CO₂ and CO by Andrew E Ashley Dermot O Hare Radical Frustrated Lewis Pairs by Timothy H Warren and Gerhard Erker Polymerization by Classical and Frustrated Lewis Pairs by Eugene Y X Chen Frustrated Lewis Pairs Beyond the Main Group Transition Metal Containing Systems by D Wass Reactions of Phosphine Boranes and Related Frustrated Lewis Pairs with Transition Metal Complexes by Abderrahmane Amgoune Ghenwa Bouhadir Didier Bourissou *Polar Organometallic Reagents* Andrew E. H. Wheatley, Masanobu Uchiyama, 2022-03-03 Outlines recent advances in the field of polar organometallic chemistry particularly in the context of the emergent areas of synergic and cooperative species Polar Organometallic Reagents provides a critical overview of developments in the field of modern polar organometallic chemistry With a particular focus on the emergent area of synergic heterometallic reagents this timely volume describes our attempts to understand recently developed polar organometallics and their application in a range of new directions Contributions from leading researchers

present new synthetic work and discuss recent advances in characterization techniques synthetic applications and mechanistic understanding of heterometallic complexes In depth chapters provide detailed information on fundamental structural and theoretical aspects of polar organometallic chemistry while articulating the need and rationale for the advent of new reagents Topics include alkali and alkaline earth organometallics synergy and cooperativity cationic p block clusters and other developments in main group catalysis synthetic trends in alkenyl copper ate complex and borylmetal chemistry non traditional reaction environments and trends in developing greener processes Designed to keep readers updated with the latest progress in the field this much needed book Includes an introductory chapter outlining the development of synergic bases and the logic behind their creation Highlights the role of solid state structural work in elucidating the bonding and reactivity displayed by modern polar organometallics Examines the use of calculations in catalyst design and plotting more sustainable reaction pathways Discusses modern trends in solution techniques that have achieved new insights into the structures of active species Presents striking advances in the ease of handling of polar organometallics and the emergence of main group catalysis Polar Organometallic Reagents is essential reading for researchers in chemical disciplines including synthetic inorganic and coordination chemistry main group chemistry organometallic chemistry organic synthesis and catalysis

Synthetic Inorganic Chemistry Ewan J. M. Hamilton, 2021-04-17 Synthetic Inorganic Chemistry New Perspectives presents summaries of the work of some of the most creative researchers in the field The book highlights the most novel approaches and burgeoning applications of synthetic inorganic chemistry in development Topics include non precious metals in catalysis smart inorganic polymers new inorganic therapeutics new photocatalysts for hydrogen production and more As the first volume in the Developments in Inorganic Chemistry series this work is a valuable resource for students and researchers working in inorganic chemistry and material science Illustrates the scope and vitality of modern synthetic inorganic chemistry Shows the centrality of inorganic chemistry addressing a variety of global challenges Serves to define the current important and expanding roles of synthetic inorganic chemistry in interdisciplinary areas such as materials science synthetic organic chemistry homogeneous and heterogeneous catalysis

Unveiling the Power of Verbal Art: An Mental Sojourn through **Main Group Chemistry**

In a global inundated with monitors and the cacophony of immediate conversation, the profound energy and emotional resonance of verbal beauty often diminish into obscurity, eclipsed by the continuous barrage of noise and distractions. However, set within the musical pages of **Main Group Chemistry**, a fascinating perform of fictional brilliance that pulses with organic emotions, lies an unforgettable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this mesmerizing opus guides visitors on a mental odyssey, delicately exposing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect their interesting publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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