

Synthetic Multidentate Macrocyclic Compounds

EDITED BY

Reed M. Izatt

James J. Christensen

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Hussin A.Rothana



Synthetic Multidentate Macrocyclic Compounds:

Synthetic Multidentate Macrocyclic Compounds Reed Izatt, 2012-12-02 Synthetic Multidentate Macrocyclic Compounds attempts to bring together selected chapters in which the authors discuss in depth investigations in important areas of macrocycle research The chapters deal mainly with macrocyclic compounds saturated polyethers and their derivatives and macrobicyclic compounds cryptates The book contains six chapters and opens with a first hand account of the initial synthesis of the cyclic polyethers This is followed by separate chapters on the synthesis of cyclic polyethers polyether amines and polyether sulfides the synthesis of multidentate compounds and the structure of synthetic macrocyclic compounds and their cation complexes Subsequent chapters deal with the rates of reactions and the mechanism by which synthetic macrocyclic ligands complex substrates in solution and commercial applications of the synthetic macrocyclic ligands This book is primarily aimed at researchers and students in organic physical analytical and inorganic chemistry and in chemical engineering However it will also be of interest to many in the areas of biology biochemistry and physiology Extensive literature references are found in each chapter

Kinetic Studies of Synthetic Multidentate Macrocyclic Compounds Gerard W. Liesegang, Edward M. Eyring, UTAH UNIV SALT LAKE CITY DEPT OF CHEMISTRY., 1976 The recent literature on the kinetic properties of a variety of synthetic multidentate macrocyclic compounds has been reviewed and discussed At the beginning of this chapter a brief discussion of kinetic and mechanistic studies of antibiotics has been reviewed Then the synthetic macrocyclic compounds are treated within the framework of their different classes i e crown ethers cryptates and macrocyclic tetramines In addition to a review of the kinetic research attempts were made to clarify certain aspects of the literature and to discuss similarities and differences between the various classes Finally the last section discusses possible kinetic studies of more novel Host molecules designed and synthesized by Cram

Synthetic Coordination and Organometallic Chemistry Alexandr D. Garnovskii, Boris I. Kharissov, 2003-04-25 This reference describes standard and nonstandard coordination modes of ligands in complexes the intricacies of polyhedron programmed and regioselective synthesis and the controlled creation of coordination compounds such as molecular and h n p complexes chelates and homo and hetero nuclear compounds It offers a clear and concise review of modern synthetic techniques of metal complexes as well as lesser known gas and solid phase synthesis electrosynthesis and microwave and ultrasonic treatment of the reaction system The authors pay special attention to o hydroxyazomethines and their S Se containing analogues b diketones and quinines among others and examine the immediate interaction of ligands and metal salts or carbonyls

Crown Ethers and Cryptands George W Gokel, 2016-11-08 Supramolecular chemistry concerns the structure and function of molecular assemblies formed through weak interactions These complexes have found diverse applications in materials chemistry nanoscience catalysis food sciences and medicine and this has led to a rapid expansion in supramolecular chemistry research With contributions from high profile international scientists working within the field each

book in the series covers a key concept for graduate level students and above interested in supramolecular chemistry and its diverse applications The books are ideal for reference and as state of the art guides and they aim to enable further developments of new applications through an understanding of the fundamentals and a comprehensive overview of the latest research

Host Guest Complex Chemistry Macrocycles F. Vögtle, E. Weber, 2012-12-06 The scientific and practical interest in coronands crown ethers cryptands podands as complexing agents for cations as well as for anions and neutral low molecular species is undeniable 1 2 The chemistry of crown compounds is steadily increasing About 250 original papers dealing with crown chemistry appeared only in 1980 New molecules with crown ether properties are constantly synthesized and new applications discovered Owing to lack of space only a small number of the original publications is mentioned here Thus in the literature compilation only some but relevant works are selected for each chapter Whenever possible reference is made to reviews or review like articles alone by means of which original works can be consulted The reviews given under ref 1 are considered to be the most relevant The formulae presented in the figures should be understood as representative structures outlining a specific field 2 Classification of Oligo Multidentate Neutral Ligands and of their Complexes Today a distinction is made between the classical ring oligoethers crown ethers and monocyclic coronands oligocyclic spherical cryptands and the acyclic podands with respect to topological aspects 3 This classification and the topology are illustrated in Fig 1 each figure representing the minimum number of donor atoms and chain segments characteristic of each class of compounds Multidentate monocyclic ligands with any type of donor atoms are called coronands crown compounds while the term crown ether should be reserved for cyclic oligoethers exclusively containing oxygen as donor atom

General and Synthetic Methods G Pattenden, 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

Coordination Chemistry of Macrocyclic Compounds Edwin C. Constable, 1999 This book describes the coordination chemistry of macrocyclic ligands Common types of ligands are introduced and strategies for the synthesis of the

free ligands and their metal complexes are discussed The unique thermodynamic and kinetic properties of macrocyclic complexes are introduced and applications of the ligands presented The book is suitable for advanced undergraduate or graduate students and assumes a knowledge of organic and inorganic chemistry at the second year undergraduate level

Analytical Chemistry of Macrocyclic and Supramolecular Compounds Shripad Moreshwar Khopkar,2002

Progress in Macrocyclic Chemistry Reed M. Izatt,James J. Christensen,1979 Design and Synthesis of Supramolecular Molecules and Their Use as Carriers for the Facilitated Transport of Biomolecules Across Lipophilic Barriers Panagiotis Filippakopoulos,2004 **Template Synthesis of Macrocyclic Compounds** N. V. Gerbeleu,V. B. Arion,John P. Burgess,2008-07-11

The synthesis of macrocycles is an art in itself Template controlled synthesis provides elegant access to fascinating macrocyclic structures Polyazamacrocycles crown ethers cryptands rotaxanes knots the range of macrocyclic compounds is as broad as their potential application as molecular switches in ion exchange electron transfer or catalysis This book provides authoritative information on all aspects of template controlled macrocyclizations It covers in depth the current state of research on template processes novel synthetic techniques and mechanistic approaches The critical discussion of the diverse synthetic routes includes the detailed characterization of the broad variety of macrocyclic products References to applications of macrocyclic compounds and over 1 500 citations make this handbook an indispensable tool for chemists in academia and industry Researchers in organic and supramolecular chemistry biotechnology and inorganic chemistry will find inspiration for the design synthesis and myriad uses of new synthetic macrocycles *Comprehensive Heterocyclic*

Chemistry II: Seven-membered and larger rings and fused derivatives Alan R. Katritzky,Charles Wayne Rees,Eric F. V. Scriven,1996 **Macrocycles and NADH Models** Oscar Piepers,1981 Molecular Structures and Free Energies in

Host-guest Chemistry Johan Eerden,1989 **Synthetic Organic Chemistry** H.-D. Beckhaus,1986 **High Pressure Chemical Synthesis** Janusz Jurczak,Bogdan Baranowski,1989 The high pressure method of chemical synthesis is one of the most developed unconventional tools for preparation of either new or known compounds and as a result there are a large number of interesting reviews in this field of chemistry Developments in high pressure inorganic and organic chemistry have been especially numerous and have been the subject of two earlier books Organic High Pressure Chemistry W le Noble Elsevier 1988 and Inorganic High Pressure Chemistry R van Eldik Elsevier 1986 This book intended as a companion volume highlights the specific problems of chemical synthesis It has been written to increase the awareness of practising chemists of techniques which could prove advantageous and to provide a useful summary of information to those engaged in high pressure research The Synthesis of Highly Substituted Meta-terphenyls and Their Incorporation Into Spherands and Hemispherands Larrie Alan Deardurff,1980

General and Synthetic Methods ,1981 A review of the literature

Macrocycles as Enzyme Models Berend Jan van Keulen,1984 **Compendium of Phase-transfer Reactions and Related Synthetic Methods, Listed According to Type of Compound Formed** Walter E. Keller,1979

Synthetic Multidentate Macrocylic Compounds Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Synthetic Multidentate Macrocylic Compounds**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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