

# **Synthetic Multidentate Macrocyclic Compounds**

EDITED BY

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# Synthetic Multidentate Macrocyclic Compounds

**Davette Jones Whitaker**



## **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

**Synthetic Coordination and Organometallic Chemistry** Alexandr D. Garnovskii, Boris I. Kharissov, 2003-04-25 This reference 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

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

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

**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 **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 **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 This work covers the analytical chemistry of Macrocyclic

crown ethers macrobicyclic caryatids and the Supramolecular compounds calyx n erene and calyx n resocrinerene These compounds have direct application in biosciences analytical chemistry solvent extraction and chromatography Progress in Macrocyclic Chemistry Reed M. Izatt, James J. Christensen, 1979 **Macrocycles and NADH Models** Oscar Piepers, 1981

Design and Synthesis of Supramolecular Molecules and Their Use as Carriers for the Facilitated Transport of Biomolecules Across Lipophilic Barriers Panagiotis Filippakopoulos, 2004 **General and Synthetic Methods**, 1981 A review of the literature Synthetic Organic Chemistry H.-D. Beckhaus, 1986 Compendium of Phase-transfer Reactions and Related Synthetic Methods, Listed According to Type of Compound Formed Walter E. Keller, 1979 Chemical Society Reviews Chemical Society (Great Britain), 1989 **Macrocycles as Enzyme Models** Berend Jan van Keulen, 1984

*Macrocyclic Chemistry* Bernard Dietrich, Paulette Viout, Jean-Marie Lehn, 1993 Based on a series of lectures in macrocyclic chemistry held by Jean Marie Lehn at the College de France This lucid introduction offers extensive coverage of the vast panorama of macrocyclic and macropolycyclic chemistry Interdisciplinary in approach it treats significant aspects of organic inorganic and physical chemistry and touches biological phenomena as well Using this book graduate students and researchers will gain insight into the fascinating concepts of molecular recognition and supramolecular chemistry *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 Molar Free Energies of Transfer from Water to Several Nonaqueous Solvents for DB18C6 and B15C5 and Proton and Carbon-13 NMR Studies of Some 18C6 Complexes** Davette Jones Whitaker, 1979 Host Guest Complex Chemistry III F. Vögtle, E. Weber, 1984-02-01 With contributions by numerous experts

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