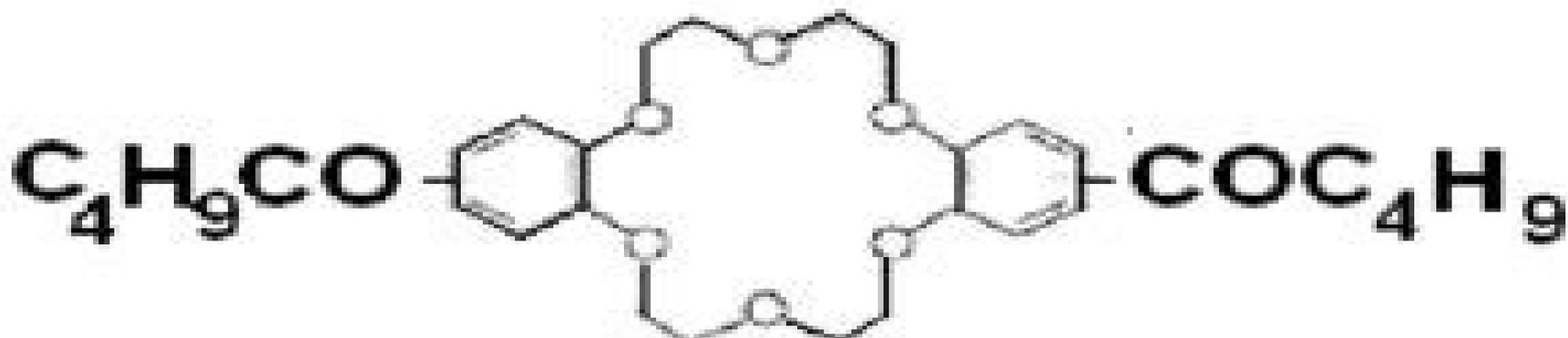
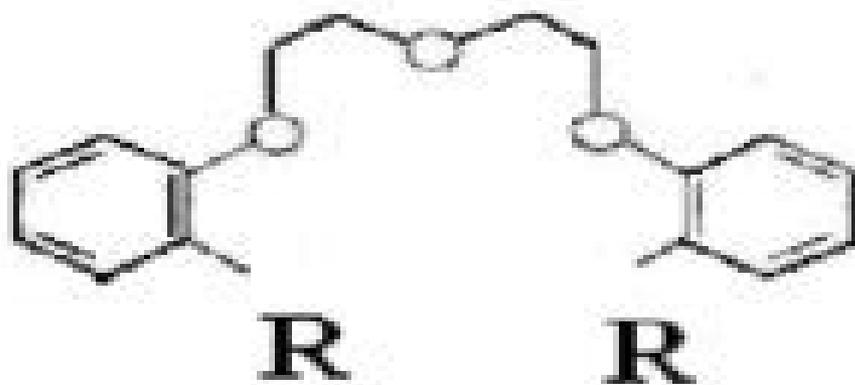




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Crown Compounds

Morton Smale, Frank Colyer



Crown Compounds:

Crown Ethers and Analogous Compounds M. Hiraoka, 2016-05-04 Since the discovery of crown ethers by Pedersen in 1967 several thousands of crown ethers and analogous compounds have been synthesized Their specific characteristics have been investigated and a variety of applications developed These developments have led to new fields of chemistry called host guest chemistry and supramolecular chemistry This book presents the state of the art of the chemistry of crown ethers and analogous compounds The first chapter provides an orientation in the new fields of chemistry Chapter 2 reviews advances in synthetic procedures for crown ethers and analogous compounds including azacrown ethers thiocrown ethers functionalized crown ethers cryptands and others The focus of chapter 3 is on the concept and synthetic strategies for the molecular design of new crown compounds Chapters 4-7 are concerned with noteworthy topics in the applications of crown compounds Chapter 4 deals with the application to ion selective electrodes and liquid chromatography both of which are the most important targets in the analytical application of crown compounds One major application of crown ethers is the design and syntheses of artificial molecules which can catalyze a useful synthetic reaction in an enzyme mimetic reaction manner through novel non covalent complexes The strategies for enzymatic modelling with crown ethers are covered in chapter 5 while chapter 6 presents the principle of amine selective colour complexation and its application In chapter 7 switched on crown ethers that can respond to environmental stimuli are reviewed The final chapter is devoted to a wide ranging discussion of developments in macrocyclic polyamine chemistry Unlike crown ethers macrocyclic polyamines bearing nitrogen donor atoms which belong to a soft base form complexes with ions of transition metals and heavy metals which are classified as soft acids Therefore macrocyclic polyamines are expected to have very versatile applications Scientists in chemistry biochemistry physical organic chemistry pharmaceutical chemistry and industrial chemistry will find this book a helpful summary and a stimulating contribution to research in this specialized field of crown compounds *Crown Compounds* Michio Hiraoka, 1982

Crown Compounds Stephen R. Cooper, 1992 The chemistry of crown ethers and crown like compounds is about twenty five years old It is a good time not only to assess the development of the field but also to map out where crown compound research will lead Top level researchers from around the world have contributed chapters to this book which presents state of the art views on crown compound research The book identifies areas of the field where in all likelihood research and applications will flourish

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

Analytical Chemistry of Macrocyclic and Supramolecular Compounds Shripad Moreshwar Khopkar, 2005 This volume provides a comprehensive state of the art account exclusively devoted to the analytical chemistry of Macrocyclic crown ethers Macrobicyclic cryptands and the Supramolecular compounds calixarene and calyx n resorcinarene and rotaxanes These compounds having a great deal of similarity in their chemical characteristics have direct application in biosciences analytical chemistry solvent extraction chromatography spectroscopy and ion selective electrodes

BOOK JACKET **Crown Ethers and Cryptands** George W. Gokel, 1991 This book introduces the broad and basic principles of crown ether and cryptand chemistry at the advanced undergraduate graduate and working professional level

Liquid Membranes Takeo Araki, Hiroshi Tsukube, 1990-05-09 This interesting work extensively describes newer applications of liquid membrane systems which contain molecular and or ion recognizing carrier compounds and the related characteristic membrane materials This volume focuses on the current knowledge about chemistry biology and related technology of liquid membranes It reviews the most recent advances in design and characteristics of synthetic liquid membrane transport Additionally this fascinating reference discusses up to date topics in the analytical and separation science plus biomimetic membrane technology Because this book is presented in a compact understandable format readers can start from biological cell membranes then net aspects of host guest chemistry for effective recognition of ions and molecules followed by its application for artificial sensors such as neuro systems functionalized new detergents mechanochemical systems and separation chemistry This publication is ideal for graduate level students and will stimulate university and industry researchers

The Americana ,1923 **Crown Ethers and Analogs Updates** E. Weber, 1989-09-28 Derived from the Chemistry of Functional Groups series this volume includes key chapters from an earlier volume on crown ethers Material has been updated and new material included Topics discussed include the synthesis of crown ethers and analogs and various complexes and selectivity

The National Nurseryman ,1925 **Organometallic Compounds** ,1985 **Papers** ,1914 **Northwestern Dental Journal** ,1903 **Catalogue and Handbook of Electrical Wires and Cables** American Steel & Wire Co, 1910 **Prosthetic Dentistry** James Harrison Prothero, 1916 *The Statist* ,1910 **Diseases and Injuries of the Teeth** Morton Smale, Frank Colyer, 1901 **Aerodnetics** Frederick William Lanchester, 1910 Forfatteren definerer Aerodnetics som viden om balance og stabilitet i f m fuglenes evne til at flyve og sv ve Denne viden er benyttet af flyvningens pionerer og flykonstrukt rer f eks gennem kendskabet til aerodynamik med relation til flyvning som her beskrevet

Aerodynamics Frederick William Lanchester, 1911
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