

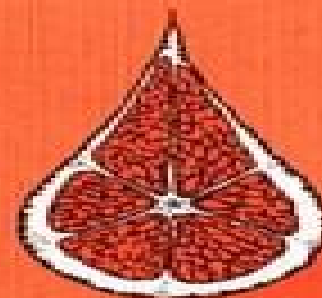
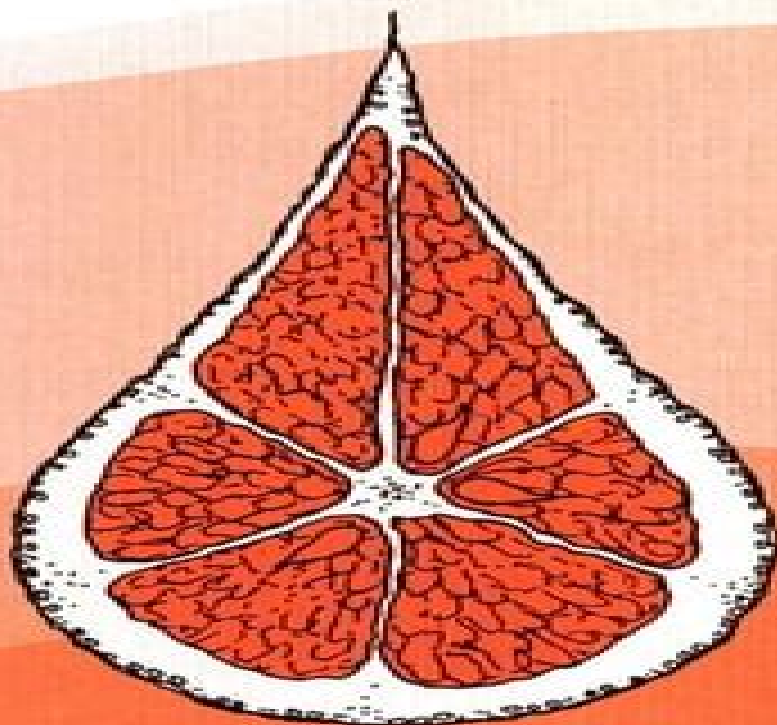
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PAPERBACKS



VITAMIN C:

Its Chemistry and Biochemistry

Michael B. Davies
John Austin
David A. Partridge



Vitamin C Its Chemistry Biochemistry Rsc Paperbacks

C E Harland



Vitamin C Its Chemistry Biochemistry Rsc Paperbacks:

Vitamin C M B Davies, D A Partridge, J A Austin, 2007-10-31 Vitamin C is the first book to cover the history chemistry biochemistry and medical importance of vitamin C and is the first to provide an in depth interdisciplinary study of this essential and fascinating compound The book provides a comprehensive and systematic account of the vitamin C story fully surveying the history of scurvy and how its cure led to the suggestion discovery and isolation of the vitamin later named L ascorbic acid It describes in detail the vitamin s structure determination synthesis and manufacture and its oxidation products derivatives and related compounds Its key biochemical roles are fully categorized and explained and the medical importance of the vitamin including the recent use of so called megadoses is thoroughly discussed Vitamin C will be of interest to a very wide readership and will provide useful background information and inspiration for students at various levels It will also be relevant to the interested chemist or lay person as well as those carrying out research in this area

Vitamin C Michael B. Davies, John Austin, David A. Partridge, 1993 *Chemistry of Paper* J C Roberts, 2007-10-31 The manufacture of paper involves a large amount of chemistry including carbohydrate chemistry pigments and resins and colloid and surface chemistry as well as elements of environmental and analytical chemistry Providing an overview of the making of paper from a chemical perspective this book deals with both the chemistry of paper as a material and the chemistry of its production The book explores several chemical processes involved in the production of paper the delignification of the wood fibres performed at elevated temperature and pressure the bleaching of the cellulose rich pulp using environmentally friendly systems the formation of the pulp into sheets of fibres strengthened by extensive inter fibre hydrogen bonding and finally the coating of the sheets in a manner appropriate to their end use This book is an informative and entertaining overview for students and others who require an introduction to the chemistry of paper manufacture **Natural Products Chemistry**

Raymond Cooper, George Nicola, 2014-07-29 Notoriously cumbersome to isolate and challenging to synthesize the path of natural products to viable drugs is an arduous journey Yet compounds isolated from nature may possess fascinating structures biological profiles and pharmaceutical potential far greater than anything made by man Natural Products Chemistry Sources Separations and Structures presents a practical guide to sourcing isolating and discovering new compounds from nature many of which become pharmaceutical drugs This book emphasizes the challenges and advantages of products acquired from nature compared to those obtained from combinatorial chemistry A basic introduction the book describes the whole cycle from farm to final compound backed up by case studies drawn from industry and research applications It broadens the scope of applications and draws upon examples from various sources Natural products chemistry as taught today draws its examples mainly from marine chemistry or plant chemistry however there is also a fascinating and rich world of fermented microbial and algal products leading to complex structures Thus the book draws upon examples from the microbial world and from insects too Therefore this is a source of bioactive metabolites not traditionally available in

academic settings more the mainstay of the pharmaceutical industry Providing a roadmap of the process of collecting a compound from nature isolating the active ingredient and determining the chemical structure this book provides a unique approach to the world of natural products Archaeological Chemistry A Mark Pollard, Carl Heron, 2007-10-31 The application of chemistry within archaeology is an important and fascinating area It allows the archaeologist to answer such questions as what is this artefact made of where did it come from and how has it been changed through burial in the ground providing pointers to the earliest history of mankind Archaeological Chemistry begins with a brief description of the goals and history of archaeological science and the place of chemistry within it It sets out the most widely used analytical techniques in archaeology and compares them in the light of relevant applications The book includes an analysis of several specific archaeological investigations in which chemistry has been employed in tracing the origins of or in preserving artefacts The choice of these investigations conforms to themes based on analytical techniques and includes chapters on obsidian ceramics glass metals and resins Finally it suggests a future role for chemical and biochemical applications in archaeology Archaeological Chemistry enables scientists to tackle the fundamental issues of chemical change in the archaeological materials in order to advance the study of the past It will prove an essential companion to students in archaeological science and chemistry field and museum archaeologists and all those involved in conserving human artefacts

Ion Exchange C E Harland, 2007-10-31 Ion Exchange 2nd Edition is a totally revised and updated version of the highly popular Monograph for Teachers first published by The Royal Society of Chemistry in 1975 It covers the practical application of ion exchange and the synthesis of organic ion exchange resins which have spanned nearly 60 years of development since the pioneering work of Adams and Holmes in 1935 This book covers the theory development and application in considerable detail and describes the history of development of ion exchange materials and the advances in their utilization in industrial processes Key applications in such areas as water purification hydrometallurgy and chromatography are described and supported by chapters on the related scientific fundamentals governing equilibria and kinetics of ion exchange Twenty two experiments using inexpensive equipment are detailed which not only complement a chapter dedicated to the characterization of organic exchangers but also serve to illustrate several other pure and applied principles related to ion exchange phenomena It is anticipated that the unique inclusion of experiments and the broad coverage of the whole text should appeal to a wide readership and offer particular relevance to practitioners in schools colleges and industry

Adhesion Science John Comyn, 2007-10-31 The use of adhesives is widespread and growing and there are few modern artefacts from the simple cereal packet to the jumbo jet that are without this means of joining Adhesion Science provides an illuminating account of the science underlying the use of adhesives a branch of chemical technology which is fundamental to the science of coatings and composite materials and to the performance of all types of bonded structures This book guides the reader through the essential basic polymer science and the chemistry of adhesives in use at present It discusses surface

preparation for adhesive bonding and the use of primers and coupling agents There is a detailed chapter on contact angles and what can be predicted from them A simple guide on stress distribution joints and how this relates to testing is included It also examines the interaction of adhesives and the environment including an analysis of the resistance of joints to water oxygen and ultra violet light Adhesion Science provides a comprehensive introduction to the chemistry of adhesives and will be of interest not only to chemists but also to readers with a background in physical or materials science **Trace**

Elements Medicine and Chelation Therapy David R Williams, David M Taylor, 2007-10-31 This book discusses in relatively simple language the importance of even minute amounts of certain trace elements for the protection of human health and how insufficiency or excess may produce serious diseases It also examines the use of metal chelators in the treatment of such diseases *Food Flavours* Carolyn Fisher, Thomas R Scott, 2020-05-16 How does the nose know what it smells How do we

taste foods What gives foods their characteristic flavours How do the methods of food preparation and processing change the flavours of foods Food Flavours answers these questions and much more in a clear and understandable manner describing the composition of flavour compounds and the contributions they make to our sensory experiences The book begins with the chemical reactions by which chemical compounds develop in plants and continues through the processing and preparation of foods It then turns to our chemical sensory systems to describe the recognition and neural processing of these compounds in the nervous system and the reactions that we have to flavours The way that chemical qualities give foods their characteristic flavours and the ways various methods of food preparation and preservation affect those compounds and the resulting flavours are dealt with in detail both from a chemical and a biological aspect Throughout Food Flavours provides special in depth coverage of taste odour physiology and it contains a unique chapter providing a learning and problem solving technique that will prove invaluable to students in all areas of food science as well as in biological organic and analytical chemistry and will be a good addition to any food technologist s bookshelf **Every Molecule Matters** Simon

Cotton, 2025-09-10 Every Molecule Matters is a successor to the author s earlier Every Molecule Tells a Story and tells the story of a wide range of molecules These range from the familiar odours that enhance the pleasure of eating and the spices that add piquancy to the vitamins vital to our survival as well as the ways in which insects and plants use chemicals to protect themselves There s controversy surrounding the compounds of chlorine which encompass life supporting anaesthetics and natural antibiotics as well as insecticides like DDT which saved innumerable lives but became an environmental cause c l bre Through the addictive power of nicotine smoking tobacco transformed from a curiosity imported from the Americas into a megapound industry that has caused significant human illness and death And how safe is vaping Discover the painkillers that have become drugs of abuse and smile at the smelly sulfur compounds that serve as unpleasant human odorants and defence molecules for skunks control natural cycles in the environment or act as flavourings in wine You will discover them all here This book showcases the structures of hundreds of compounds used by humans animals and plants

Some are beneficial some are not Find out here why you should be better informed about them This collection of molecules includes human issues such as the chemistry of vaping and drugs of abuse including spice nitazenes and fentanyl Chemistry of Everyday includes vitamins and the molecules that give foods their aromas and appetizing appeal The chemistry of nature how plants and insects use chemicals to defend themselves against potential predators whether humans birds animals or other insects Organohalogen compounds encompassing the atmosphere damaging CFCs and their replacements and the chlorine compounds that are important medicines e g vancomycin Using isotopes from archaeologists faced by mysteries of ancient Rome and silver from Spanish conquistadors to tracking down the origin of South American cocaine and solving the Scissor Sister murder case

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