

(A) Different structure levels of proteins

Primary structure



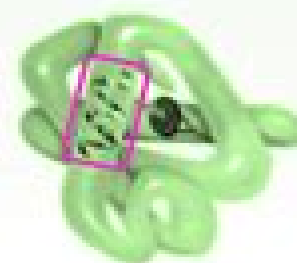
Amino acid residues

Secondary structure



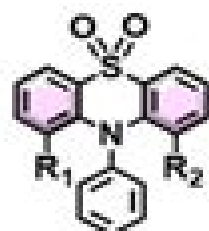
α helix

Tertiary structure



Polypeptide chain

(B) Different structure levels of organic solids



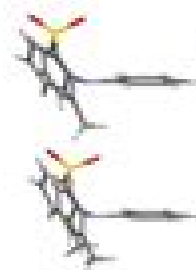
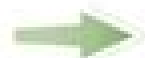
$R_1 = -CH_3$;
 $R_2 = -CH_2-H$

O-PTZ-nMe-H ($n = 1, 2$)

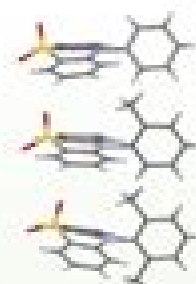


$R_3 = -CH_2-H$;
 $R_4 = -CH_2-H$

O-PTZ-H-nMe ($n = 0, 1, 2$)



Quasi-axial (ax)



Quasi-equatorial (eq)



Small π - π overlap



Packing mode

Large π - π overlap

Chemical structure

Molecular conformation

Molecular aggregation

Structure Of Organic Solids

Emilie Sanchez

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Structure Of Organic Solids:

Structure of Organic Solids, 1969 **Design of Organic Solids** Y. Aoyama, 1998-09-10 The lively interest in organic solids stems from our increasing ability to manipulate and tune the properties of organic and organometallic materials e.g. nonlinear behavior or electrical conductivity by systematic variations of the molecular components New insight derived from modern supramolecular chemistry are also allowing molecular level control of solid state structure with the arrangement of functional molecular components into a defined solid architecture Examples include the creation of nanoporous host lattices containing functional guest molecules and of defined nanomaterials In this book leading experts in the field give a state of the art overview of our current knowledge and of future prospects with chapters on directional aspects of intermolecular interactions supramolecular synthon approaches hydrogen bonded tape ribbon and sheet motifs designed organic zeolite analogues and crystalline polymorphism Design of Organic Solids Edwin Weber, 2003-09-05 Considering the high level of our knowledge concerning covalent bond formation in the organic chemistry of molecules our understanding of the principles involved in organic solid design is almost in its infancy While chemists today are able to synthesize organic molecules of very high complexity using sophisticated methods of preparation they lack general approaches enabling them to reliably predict organic crystalline or solid structures from molecular descriptors no matter how simple they are On the other hand nearly all the organic matter surrounding us is not in the single molecule state but aggregated and condensed to form liquid or solid molecular assemblages and structural arrays giving rise to the appearances and properties of organic compounds we usually observe Obviously the electrical optical or magnetic properties of solid organic materials that are important requirements for future technologies and high tech applications as well as the stability and solubility behavior of a medicament depend on the structure of the molecule and the intramolecular forces but even more decisively on the intermolecular forces i.e. the packing structure of the molecules to which a general approach is lacking This situation concerned Maddox some years ago to such a degree that he described it as one of the continuing scandals in the physical sciences see 1998 Nature 335 201 see also Ball P 1996 Nature 381 648 The problem of predicting organic solid and crystal structures is very difficult **Organic Solid-State Chemistry—2** M. D. Cohen, 2013-10-22 Organic Solid State Chemistry 2 presents the solid state reactions in molecular crystals This book discusses the correlations of the chemical structures of products from organic solid state reactions with the molecular packing in the reactant crystal structures Organized into 10 chapters this book begins with an overview of the molecular behavior after the chemical transition state This text then examines the electron paramagnetic resonance methods which offer many features in connection with the study of chemical reactions in which a paramagnetic species is a product or a reactant Other chapters consider the interpretation of radiationless transitions thermal reactions and photochemical decompositions and rearrangements The final chapter deals with the experimental results concerning electron and hole production in anthracene crystals with emphasis on the relevance of these studies to the fundamental

question of the nature of the excess electron states in these low mobility crystals This book is a valuable resource for solid state chemists photochemists spectroscopists scientists and research workers **Organic Molecular Solids** William Jones, 2019-09-17 Interest in organic molecular solids extends to a range of fields including chemistry physics electrical engineering and materials science In chemistry it applies to such topics as solid state reactivity crystal engineering theoretical approaches to crystal structure determination and morphology control In physics electrical engineering and materials science the possibility of producing organic based materials such as crystals polymers thin films or liquid crystals with potential electronic opto electronic and magnetic uses is a major area of current research interest throughout the world Organic Molecular Solids examines the uses of organic based materials over a wide range of applications and interests Each chapter surveys a relevant topic providing appropriate introductory background information and modern developments

Structure of Organic Solids, 1969 Structure and Classification of Organic Compounds Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Structure Determination of Organic Compounds Ernő Pretsch, Philippe Bühlmann, Christian Affolter, 2000 Table Combination tables 13C NMR spectroscopy 1H NMR spectroscopy IR spectroscopy Mass spectrometry UV Vis spectroscopy

The Structure Dependent Energy of Organic Compounds Árpád Furka, 2019-04-05 This brief introduces readers to an alternative thermochemical reference system that makes it possible to use the heats of formation of organic compounds to deduce the energies that depend entirely on their structures and which provides calculated values for most of the characteristic structures appearing in organic molecules These structure dependent energies are provided e g for selected compounds of normal and cyclic alkanes open chain and cyclic olefins including conjugated polyenes alkynes aromatic hydrocarbons and their substituted derivatives The oxygen sulfur and nitrogen derivatives of the above mentioned compounds are also represented with calculated structure dependent energies including alcohols ethers aldehydes and ketones carboxylic acids thiols sulfides amines amides heterocyclic compounds and others Most organic reactions can be interpreted as the disappearance of certain structures and formation of others If the structure dependent energies are known it can be shown how the disappearing and the newly formed structures contribute to the heat of reactions and to the driving forces As experienced by the author who pioneered the concept structure dependent energies can help teachers to make organic chemistry more accessible for their students Accordingly the brief offers a valuable resource for all those who teach organic chemistry at universities and for those who are learning it **Electrical and Related Properties of Organic Solids** R.W. Munn, Andrzej Miniewicz, Bogdan Kuchta, 2012-12-06 Organic solids exhibit a wide range of electrical and related properties They occur as crystals glasses polymers and thin films they may be insulators semiconductors conductors or

superconductors and they may show luminescence nonlinear optical response and complex dynamical behaviour The book provides a broad survey of this area written by international experts one third being drawn from Eastern Europe Electrical optical spectroscopic and structural aspects are all treated in a way that gives an excellent introduction to current themes in this highly interdisciplinary and practically important area The coverage is especially strong in the areas where electrical and optical properties overlap such as photoconductivity electroluminescence electroabsorption electro optics and photorefraction

Thermochemical Data and Structures of Organic Compounds J B Pedley, 1994-06-15 A search for the enthalpy of formation of a particular compound can be a difficult task So it is of great benefit that the values be collected together in one comprehensive compilation Thermochemical Data and Structures of Organic Compounds presents approximately 3000 enthalpies of formation of organic compounds There are many instances of large discrepancies reported for a particular compound Thus selection of the best value becomes a challenge for the person who is not a practicing thermochemist but who only wishes to use the data A critical evaluation of the values presented becomes desirable This compilation presents about 3000 enthalpies of formation of organic compounds all critically evaluated Structure of Organic Solids International Union of Pure and Applied Chemistry, W. Hoppe, International Union of Pure and Applied Chemistry, Macromolecular Division, Československá akademie věd, Československá akademie věd. Sekce chemická, 1969

Crystal Engineering Gautam R. Desiraju, 1989 Hardbound A substantial amount of recent research has revealed that an understanding of weak intermolecular interactions is a most important priority in the chemical sciences today One of the many advantages to ensue from such an understanding is that improved methods for the prediction and design of organic crystal structures have become possible Concurrently strategies for crystal engineering have advanced to such an extent to warrant the publication of this book in which the author reviews and evaluates past developments and comments on future possibilities The book is intended for three distinct groups of scientists organic chemists and materials scientists who are now coordinating their efforts in designing molecular crystals for a variety of physical and chemical applications physical and theoretical chemists who are concerned with intermolecular interactions in organic solids crystallographers who attempt to search for patterns in crystals

Organic Solid-State Reactions Fumio Toda, 2013-03-14 Most organic reactions have long been carried out in organic solvents without concern for their real necessity reaction efficiency and pollution problems Very recently we have found that most organic reactions can be carried out in the absence of a solvent namely in the solid state In many cases the solid state reaction proceeds more easily and efficiently and even more selectively than solution reaction This shows that molecules move easily and selectively in the solid state This finding changed the classical idea which suggests molecules do not move and reactions do not occur in the solid state and opened up a new research field for the study molecular dynamics in the solid state The organic solid state reactions have many possibilities to be developed For example enantioselective reactions can easily be accomplished by carrying out the reaction in an inclusion complex crystal with an

optically active host compound Catalytic reactions also proceed in the solid state Moreover the solid state reactions are more economical and ecologically sound In the future pollution free synthetic procedures in the solid state will become increasingly important not only in chemical industries but also in university laboratories

Determination of Organic Structures by Physical Methods V4 F.C. Nachod,2012-12-02

Determination of Organic Structures by Physical Methods Volume 4 is a seven chapter text that discusses the refinements of some established physical methods for organic structure determination Each chapter of this book examines specific physical method including high field and pulsed NMR nuclear magnetic double resonance spectroscopy and ^{15}N ^{13}C and ^{31}P nuclear magnetic resonance The historical developments principles instrumentation and applications to organic chemistry of these methods are discussed This work will be of value to organic and analytical chemists and researchers

Physics of Organic Semiconductors Wolfgang Brütting,Chihaya Adachi,2012-10-02 The field of organic electronics has seen a steady growth over the last 15 years At the same time our scientific understanding of how to achieve optimum device performance has grown and this book gives an overview of our present day knowledge of the physics behind organic semiconductor devices Based on the very successful first edition the editors have invited top scientists from the US Japan and Europe to include the developments from recent years covering such fundamental issues as growth and characterization of thin films of organic semiconductors charge transport and photophysical properties of the materials as well as their electronic structure at interfaces and analysis and modeling of devices like organic light emitting diodes or organic lasers The result is an overview of the field for both readers with basic knowledge and for an application oriented audience It thus bridges the gap between textbook knowledge largely based on crystalline molecular solids and those books focusing more on device applications

The Systematic Identification of Organic Compounds Christine K. F. Hermann,Terence C. Morrill,Ralph L. Shriner,Reynold C. Fuson,2023-03-08 **The Systematic Identification of Organic Compounds** A comprehensive introduction to the identification of unknown organic compounds Identifying unknown compounds is one of the most important parts of the study of chemistry From basic characteristics such as melting and or boiling point to more complex data generated through cutting edge techniques the range of possible methods for identifying unknown organic compounds is substantial The utility of a research reference which compiles known techniques and characteristics of possible compounds is clear The Systematic Identification of Organic Compounds provides such a reference designed to teach a hands on approach in the chemistry lab It takes readers step by step through the process of identifying an unknown compound and elucidating its structure from infrared nuclear magnetic resonance and mass spectra in addition to solubility characteristics melting point boiling point and classification tests The result is an essential overview for advanced chemistry students looking to understand this exciting area of laboratory work Readers of the ninth edition of The Systematic Identification of Organic Compounds will also find A detailed chapter on safety personal protection equipment chemical storage safety data sheets and other safety concerns New NMR IR

and mass spectra with detailed explanations on interpretation Questions at the end of each chapter designed to facilitate and reinforce progression keyed to a companion website for instructors Tables of known compounds including data relevant for identification Companion website with structural problems from experimental data for students to practice how to reason and solve The Systematic Identification of Organic Compounds is a useful reference for advanced undergraduates and graduate students studying organic chemistry organic spectroscopy and related subjects , **Electronic Charges of Bonds in Organic Compounds** G. V. Bykov,2016-07-04 Electronic Charges of Bonds in Organic Compounds discusses trends in the electronic theory of structure and reactivity of organic compounds This book focuses on simple and diverse methods that calculate the electronic charges of bonds from the results of physical methods of investigation This text is divided into 10 chapters In Chapter I brief information is provided about the work of other research workers on the electronic charges of bonds and organic compounds Chapters II to VI elaborate on the relationship of the electronic charges of bonds to the physical and physicochemical characteristics of molecules and their structural elements The relationship between the electronic charges of bonds and chemical properties are explained in Chapters VII to X This publication provides a good reference for students and researchers conducting work on electronic charges of bonds and reactivity of organic compounds Organic Chemistry: 25 Must-Know Classes of Organic Compounds Mohamed Elzagheid,2024-03-18 Organic Chemistry 25 Must Know Classes of Organic Compounds covers the main organic compounds It includes aliphatic and aromatic hydrocarbons halide oxygen nitrogen and sulfur containing compounds It presents heterocyclic compounds and common organic mechanisms and describes carbonyl compounds organic polymers and organic molecules with applications in medicinal chemistry

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