

Aminophosphonic And Aminophosphinic Acids

Chemistry And Biological Activity

Nucleic Acids in Chemistry and Biology Nucleic Acids in Medicinal Chemistry and Chemical Biology Chemistry and Biology of Non-canonical Nucleic Acids A Dictionary of Chemistry and the Allied Branches of Other Sciences A dictionary of chemistry and the allied branches of other sciences Physical Chemistry and Acid-base Properties of Surfaces Acids and Bases Dental Chemistry and Metallurgy Acids, Bases, and the Chemistry of the Covalent Bond A Dictionary of Chemistry and Allied Branches of Other Sciences The Chemistry and Technology of Petroleum A Treatise on Chemistry and Chemical Analysis: Qualitative analysis Solid Acids and Bases Elements of Agricultural Chemistry and Geology Chemistry : general, medical, and pharmaceutical Chemistry and Industry The Lewis Acid-base Concepts The Enzymes; Chemistry and Mechanism of Action Studies on the Analytical Chemistry and Toxicology of Phenoxy Herbicides Chemistry and Biochemistry of the Amino Acids G Michael Blackburn Lih Zhang Naoki Sugimoto Henry Watts Henry Watts (F.C.S.) Jean-Charles Joud Brian G. Cox Clifford Mitchell Calvin Anthony VanderWerf Henry Watts (F.C.S.) James G. Speight Kozo Tanabe James Finlay Weir Johnston John Attfield William B. Jensen James Batcheller Sumner Kurt Erne Graham Barrett

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the structure function and reactions of nucleic acids are central to molecular biology and are crucial for the understanding of complex biological processes involved revised and updated nucleic acids in chemistry and biology 3rd edition discusses in detail both the chemistry and biology of nucleic acids and brings rna into parity with dna written by leading experts with extensive teaching experience this new edition provides some updated and expanded coverage of nucleic acid chemistry reactions and interactions with proteins and drugs a brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of dna and rna key chapters are devoted to the chemical synthesis of nucleosides and nucleotides oligonucleotides and their analogues and to analytical techniques applied to nucleic acids the text is supported by an extensive list of references making it a definitive reference source this authoritative book presents topics in an integrated manner and readable style it is ideal for graduate and undergraduates students of chemistry and biochemistry as well as new researchers to the field

nucleic acids in medicinal chemistry and chemical biology an up to date and comprehensive exploration of nucleic acid medicinal chemistry and its applications in nucleic acids in medicinal chemistry and chemical biology drug development and clinical applications a team of distinguished researchers delivers a comprehensive overview of the chemistry and biology of nucleic acids and their therapeutic applications the book emphasizes the latest research in the field including new technologies like crispr that create novel possibilities to edit mutated genes at the genomic dna level and to treat

inherited diseases and cancers the authors explore the application of modified nucleosides and nucleotides in medicinal chemistry a variety of current topics on nucleic acid chemistry and biology nucleic acid drugs used to treat disease and more they also probe new domains of pharmaceutical research offering the reader a wealth of new drug discovery opportunities emerging in this dynamic field readers will also find a thorough introduction to the basic terminology and knowledge of the field of nucleic acid medicinal chemistry comprehensive explorations of the methods used to determine the development of nucleic acid drugs practical discussions of new technologies like crispr nanotechnology based delivery systems synthetic biology and dna encoded chemical libraries in depth examinations of the latest cutting edge developments in nucleic acid medicinal chemistry perfect for medicinal and nucleic acid chemists nucleic acids in medicinal chemistry and chemical biology will also earn a place in the libraries of biochemists chemical biologists and pharmaceutical researchers

discover the fundamentals and intricacies of a subject at the interface of chemistry and biology with this authoritative resource chemistry and biology of non canonical nucleic acids delivers a comprehensive treatment of the chemistry and biology of non canonical nucleic acids including their history structures stabilities properties and functions you ll learn about the role of these vital compounds in transcription translation regulation telomeres helicases cancers neurodegenerative diseases therapeutic applications nanotechnology and more an ideal resource for graduate students researchers in physical organic analytical and inorganic chemistry will learn about uncommon nucleic acids become the common non canonical nucleic acids that fascinate and engage academics and professionals in private industry split into 15 chapters covering a wide range of aspects of non canonical nucleic acids the book explains why these compounds exist at the forefront of a new research revolution at the intersection of chemistry and biology chemistry and biology of non canonical nucleic acids also covers a broad range of topics critical to understanding these versatile and omnipresent chemicals including a discussion of the dynamic regulation of biosystems by nucleic acids with non canonical structures the role played by nucleic acid structures in neurodegenerative diseases and various cancers an exploration of the future outlook for

the chemistry and biology of non canonical nucleic acids an introduction to the history of canonical and non canonical structures of nucleic acids an analysis of the physicochemical properties of non canonical nucleic acids perfect for biochemists materials scientists and bioengineers chemistry and biology of non canonical nucleic acids will also earn a place in the libraries of medicinal and pharmaceutical chemists who wish to improve their understanding of life processes and the role that non canonical nucleic acids play in them

acids and bases are ubiquitous in chemistry our understanding of them however is dominated by their behaviour in water transfer to non aqueous solvents leads to profound changes in acid base strengths and to the rates and equilibria of many processes for example synthetic reactions involving acids bases and nucleophiles isolation of pharmaceutical actives through salt formation formation of zwitter ions in amino acids and chromatographic separation of substrates this book seeks to enhance our understanding of acids and bases by reviewing and analysing their behaviour in non aqueous solvents the behaviour is related where possible to that in water but correlations and contrasts between solvents are also presented fundamental background material is provided in the initial chapters quantitative aspects of acid base equilibria including definitions and relationships between solution ph and species distribution the influence of molecular structure on acid strengths and acidity in aqueous solution solvent properties are reviewed along with the magnitude of the interaction energies of solvent molecules with especially ions the ability of solvents to participate in hydrogen bonding and to accept or donate electron pairs is seen to be crucial experimental methods for determining dissociation constants are described in detail in the remaining chapters dissociation constants of a wide range of acids in three distinct classes of solvents are discussed protic solvents such as alcohols which are strong hydrogen bond donors basic polar aprotic solvents such as dimethylformamide and low basicity and low polarity solvents such as acetonitrile and tetrahydrofuran dissociation constants of individual acids vary over more than 20 orders of magnitude among the solvents and there is a strong differentiation between the response of neutral and charged acids to solvent change ion pairing and hydrogen bonding equilibria such as between phenol

and phenoxide ions play an increasingly important role as the solvent polarity decreases and their influence on acid base equilibria and salt formation is described

solid acids and bases their catalytic properties reviews developments in the studies of acidic and basic properties of solids including the efficacy and special characteristics of solid acid and base catalysts this book discusses the determination of basic and acidic properties on solid surfaces and relationship between acid strength and acid amount the structure and acid base properties of mixed metal oxides and correlation between acid base properties and catalytic activity and selectivity are also deliberated this publication is useful to professional chemists and graduate students in the fields of organic inorganic and physical chemistry petroleum chemistry and catalysis including readers interested in the acidic and basic properties on solid surfaces

amino acids are featured in course syllabuses and in project and research work over a wide spectrum of subject areas in chemistry and biology chemists and biochemists using amino acids have many common needs when they turn to the literature for comprehensive information among these common interests analytical studies in particular have undergone rapid development in recent years all other chemical and biochemical aspects of amino acids synthesis properties and reactions preparation of derivatives for use in peptide synthesis racemization and other fundamental mechanistic knowledge have been the subject of vigorous progress this book offers a thorough treatment of all these developing areas and is structured in the belief that biochemists physiologists and others will profit from access to information on topics such as the physical chemistry of amino acid solutions as well as from thorough coverage of amino acid metabolism biosynthesis and enzyme inhibition and that chemists will find relevant material in biological areas as well as in the analysis synthesis and reactions of amino acids

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