

Aminophosphonic And Aminophosphinic Acids Chemistry And Biological Activity

Aminophosphonic and Aminophosphinic Acids Amino Acid Organophosphorus Chemistry 2018 Modern Phosphonate Chemistry Chemistry Beyond Chlorine Multicomponent Reactions Green Chemistry and Sustainable Technology Polish Journal of Chemistry Journal of General Chemistry of the USSR in English Translation Journal of General Chemistry of the USSR. Zeitschrift Für Naturforschung Russian Chemical Reviews Theilheimer's Synthetic Methods of Organic Chemistry Synthetic Methods of Organic Chemistry I. Asymmetric Synthesis of α -Aminophosphonic Acids Reagents for Radical and Radical Ion Chemistry European Journal of Organic Chemistry Organophosphorus Chemistry Chemicals in the Environment Chemical Research Faculties Valery P. Kukhar Toshiki Asao György Keglevich Philippe Savignac Pietro Tundo Raquel P. Herrera Satish A. Dake A. F. Finch William Theilheimer Kevin Lee McLaren David Crich Robert Louis Lipnick Aminophosphonic and Aminophosphinic Acids Amino Acid Organophosphorus Chemistry 2018 Modern Phosphonate Chemistry Chemistry Beyond Chlorine Multicomponent Reactions Green Chemistry and Sustainable Technology Polish Journal of Chemistry Journal of General Chemistry of the USSR in English Translation Journal of General Chemistry of the USSR. Zeitschrift Für Naturforschung Russian Chemical Reviews Theilheimer's Synthetic Methods of Organic Chemistry Synthetic Methods of Organic Chemistry I. Asymmetric Synthesis of α -Aminophosphonic Acids Reagents for Radical and Radical Ion Chemistry European Journal of Organic Chemistry Organophosphorus Chemistry Chemicals in the Environment Chemical Research Faculties Valery P. Kukhar Toshiki Asao György Keglevich Philippe Savignac Pietro Tundo Raquel P. Herrera Satish A. Dake A. F. Finch William Theilheimer Kevin Lee McLaren David Crich Robert Louis Lipnick

the key role of naturally occurring amino acids in the chemistry of life and as structural units in peptides proteins and enzymes has led to intense interest in the chemistry and biological activity of synthetic analogues the phosphorus analogues of the amino acids have attracted a particular interest in the fields of research directed at the discovery understanding and modification of physiological processes aminophosphonic and aminophosphinic acids provides a comprehensive insight into the chemistry and biological activity of these compounds separate chapters are devoted to naturally occurring derivatives synthetic procedures structural spectroscopic and analytical aspects metal complexes agrochemicals neuroactive compounds and biomedical applications and transition state analogue enzyme inhibitors with particular emphasis on inhibitors of hiv protease thrombin and human collagenase aminophosphonic and aminophosphinic acids is a valuable source of information for researchers working with these types of compounds in biomedical and agrochemical industries and all others working with synthetic analogues of biologically important molecules

amino acid new insights and roles in plant and animal provides useful information on new aspects of amino acid structure synthesis reactions dietary application in

animals and metabolism in plants section 1 includes chapters that describe the therapeutic uses antiallergic effects new aspects in the d amino acid structure historical background of desmosines and stereoselective synthesis of aminophosphonic acids section 2 presents the role of amino acids in plants which includes new insights and aspects of d amino acids metabolism and transport in soybean changes during energy storage compound accumulation of microalgae and determination of amino acids from natural compounds section 3 describes the chapters on methodologies and requirement of dietary amino acids for japanese quails laying hens and finishing pigs the final chapter identifies potential importance of glutathione s transferase activity for generating resistance to triclabendazole in fasciola hepatica

organophosphorus chemistry is an important discipline within organic chemistry phosphorus compounds such as phosphines trialkyl phosphites phosphine oxides chalcogenides phosphonates phosphinates and p o h species etc may be important starting materials or intermediates in syntheses let us mention the wittig reaction and the related transformations the arbuzov and the pudovik reactions the kabachnik fields condensation the hirao reaction the mitsunobu reaction etc other reactions e g homogeneous catalytic transformations or c c coupling reactions involve p ligands in transition metal pt pd etc complex catalysts the synthesis of chiral organophosphorus compounds means a continuous challenge methods have been elaborated for the resolution of tertiary phosphine oxides and for stereoselective organophosphorus transformations p heterocyclic compounds including aromatic and bridged derivatives p functionalized macrocycles dendrimers and low coordinated p fragments are also of interest an important segment of organophosphorus chemistry is the pool of biologically active compounds that are searched and used as drugs or as plant protecting agents the natural analogue of p compounds may also be mentioned many new phosphine oxides phosphinates phosphonates and phosphoric esters have been described which may find application on a broad scale phase transfer catalysis ionic liquids and detergents also have connections to phosphorus chemistry green chemical aspects of organophosphorus chemistry e g microwave assisted syntheses solvent free accomplishments optimizations and atom efficient syntheses represent a dynamically developing field last but not least theoretical approaches and computational chemistry are also a strong sub discipline within organophosphorus chemistry

a century after their discovery phosphonates have become important compounds recognized both for their use as efficient reagents in organic synthesis and for their biological and industrial importance this unique up to date reference presents a concise summary of the state of the art in phosphonate chemistry covering the role of phosphonates in

since the industrial revolution chlorine remains an iconic molecule even though its production by the electrolysis of sodium chloride is extremely energy intensive the rationale behind this book is to present useful and industrially relevant examples for alternatives to chlorine in synthesis this multi authored volume presents numerous contributions from an international spectrum of authors that demonstrate how to facilitate the development of industrially relevant and implementable breakthrough technologies this volume will interest individuals working in organic synthesis in industry and academia who are working in green chemistry and sustainable technologies

addressing a dynamic aspect of organic chemistry this book describes synthetic strategies and applications for multicomponent reactions including key routes for

synthesizing complex molecules illustrates the crucial role and the important utility of multicomponent reactions mcrs to organic syntheses compiles novel and efficient synthetic multicomponent procedures to give readers a complete picture of this class of organic reactions helps readers to design efficient and practical transformations using multicomponent reaction strategies describes reaction background applications to synthesize complex molecules and drugs and reaction mechanisms

taking an interdisciplinary approach this new volume brings together innovative research new concepts and novel developments in the application of new tools in green chemistry and sustainable technology the diverse coverage includes chapters on ionic liquids as green solvents an environmentally friendly approach to the synthesis and biological evaluation of α aminophosphonate derivatives the application of nanotechnology in biological sciences and green chemistry eco friendly polymers the effect of global warming and greenhouse gases on environmental system and more

the current volume in this renowned series is based on the journal literature published up to september 2005 a reviews section inclusive of data published up to march 2006 is also included and the volume is introduced with a trends section focusing on the very recent developments which will form the basis of volume 70

radicals and radical ions are important intermediates with wide use in organic synthesis the first book to concentrate on reagents for the creation and use of radicals and radical ions this new volume in the handbooks of reagents for organic synthesis series compiles articles taken from the e eros database on reagents for use in radical and radical chemistry to help the chemist in the lab choose the right reagents reflecting the enormous growth of radical chemistry over the past ten years this is an essential guide for all synthetic chemists

chemicals in the environment fate impacts and remediation provides a broad review of metals and organic compounds in the environment the volume focuses on three areas the fate and transport of chemicals in soil sediment water and air the environmental impacts of chemicals on the environment wildlife and humans and the remediation methodologies and applications of chemicals in the environment

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