

Cobaloximes: Models of Vitamin B₁₂ A Demonstration of "Unpoling" in the Reactivity of an Organometallic Complex

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INTRODUCTION

Cobalamins have been prepared^{1,2} and studied extensively as model compounds for the coenzyme vitamin B₁₂. These compounds are a part of the history of chemical cooperation chemistry.

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Nihon Kagakkai



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Molecular Modelling of Vitamin B12 and Its Analogues Penny Govender, Francis Opoku, Olaide Wahab, Ephraim Kiarii, 2021-09-23 For many years the chemistry of vitamin B12 and its derivatives has been investigated for their inherent eco friendly and nontoxic nature This vitamin also known as cobalamin is an organic complex that contains a cobalt ion in its structure Its derivatives are vital bio inorganic cofactors and possess complex and rich photolytic properties facilitated by their excited states This book compiles and details cutting edge research in the application of vitamin B12 as an environmentally benign catalyst for several organic reactions It discusses the recent advances and current understanding of the photolytic properties of vitamin B12 derivatives from the perspective of the density functional theory DFT The book is of interest for anyone involved in nanotechnology macromolecular science cancer and drug delivery research

Organometallic Chemistry Volume 7 Edward W. Abel, 1972 Annotation Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry main group chemistry the lanthanides and all aspects of transition metal chemistry Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

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Crystal Structure Analysis for Chemists and Biologists Jenny P. Glusker, Mitchell Lewis, Miriam Rossi, 1996-12-17 The fields of structural chemistry and biochemistry have blossomed in the last seventy years since X ray diffraction was discovered in 1912 Dorothy Hodgkin who obtained a Nobel Prize in 1965 for her X ray diffraction work wrote a great advantage of X ray analysis as a method of chemical structure analysis is its power to show some totally unexpected and surprising structure with at the same time complete certainty The results of all X ray diffraction studies are used by chemists and buiochemists but these scientists need to be able to appreciate the significance and extent to which these results may be used A number of books written for practicing crystallographers cover the theory and applications of X ray diffraction but few are of real practical use to non specialists In Crystal Structure Analysis for Biologists and Chemists the general principles of crystal structure are presented in a highly readable way The book of Glusker who is internationally renowned provides good coverage of theory including data and understanding their significance

Propionibacteria L.I. Vorobjeva, 2013-06-29 In a sense propionic acid bacteria are domesticated bacteria They might have been used for cheese making as early as 9000 years Be In the last 40 years their pmctical uses have expanded to include vitamin B12 and propionic acid production bread baking starters for ensilage and some pharmaceutical prepanmtions New prospects for their future uses are also emerging based on the useful properties recently discovered This monograph is the result of many years of investigating propioni bacteria by the faculty staff and postgraduate students in the Department of Microbiology at the Moscow State University as well as a number of scientists in other countries The encouragement and various contributions of my colleagues has made this book possible which might as well be entitled My life with propionic acid bacteria since these bacteria were the subject of our investigations for more than 40 years I hope that this book will be of interest not only to scientists of biological specialties but also to those associated with industrial firms and medical institutions L I Vorobjeva IX Acknowledgements Writing a monograph is impossible without the cooperation of many people I am very grateful to all my postgraduate students thirty of them who work at present not only in Russia but also in various other countries including Canada Cuba Egypt India Iran and Vietnam Many thanks are due to my colleagues who shared my scientific interests and enthusiasm in experimental research Special thanks are to N Baranova E Iordan N

Vitamin B12 B. Zagalak, W. Friedrich, 1979, Zürich> European Symposium on Vitamin B 12 and Intrinsic Factor, Universität Zürich, 2019-10-08 No detailed description available for Vitamin B12

Comprehensive Inorganic Chemistry II, 2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today s inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also

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Chemistry K. Hussain Reddy, 2007 The Coverage In This Book Is Organised In Terms Of The Syllabus Prescribed In Ugc Model Curriculum 2001 For Both Undergraduate And Postgraduate Students Of Chemistry And Biological Sciences The Book Provides A Comprehensive And In Depth Treatment Of The Subject In Addition To Explaining The Basic Principles And Applications In Bioinorganic Chemistry The Book Also Describes Photosynthesis Metal Complexes And Their Interaction With Nucleic Acids Effect Of Inorganic Pollutants On Biological Systems The Book Would Serve As An Ideal Text For Students Of Chemistry And Biological Sciences Researchers In Related Areas Would Find It An Extremely Useful Reference Source

Progress in Inorganic Chemistry, Volume 31 Stephen J. Lippard, 2009-09-17 This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical authoritative evaluations of advances in every area of the discipline Every volume reports recent progress with a significant up to date selection of papers by internationally recognized researchers complemented by detailed discussions and complete documentation Each volume features a complete subject index and the series includes a cumulative index as well Physical Inorganic Chemistry Andreja Bakac, 2010-04-26 This go to text provides information and insight into physical inorganic chemistry essential to our understanding of chemical reactions on the molecular level One of the only books in the field of inorganic physical chemistry with an emphasis on mechanisms it features contributors at the forefront of research in their particular fields This essential text discusses the latest developments in a number of topics currently among the most debated and researched in the world of chemistry related to the future of solar energy hydrogen energy biorenewables catalysis environment atmosphere and human health

Advances in Organometallic Chemistry, 1999-10-14 A widely acclaimed serial *Advances in Organometallic Chemistry* contains authoritative reviews that address all aspects of organometallic chemistry a field which has expanded enormously since the publication of Volume 1 in 1964 Almost all branches of chemistry and material science now interface with organometallic chemistry the study of compounds containing carbon metal bonds Organometallic compounds range from species which are so reactive that they only have a transient existence at ambient temperatures to species which are thermally very stable Organometallics are used extensively in the synthesis of compounds on both large and small scales Industrial processes involving plastics polymers electronic materials and pharmaceuticals all depend on advancements in organometallic chemistry Bulletin of the Chemical Society of Japan Nihon Kagakkai, 1971 Organometallic Chemistry and Catalysis Didier Astruc, 2007-08-02 This volume covers both basic and advanced aspects of organometallic chemistry of all metals and catalysis In order to present a comprehensive view of the subject it provides broad coverage of organometallic chemistry itself The catalysis section includes the challenging activation and fictionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis Summaries and exercises are provided at the end of each chapter and the answers to these exercises can be found at the back of the book Beginners in inorganic organic and organometallic chemistry as well as advanced scholars and chemists from academia and industry will find much value in this title ***Advances in Inorganic Chemistry and Radiochemistry***, 1980-10-02 *Advances in Inorganic Chemistry and Radiochemistry* Inorganic Reaction Mechanisms A McAuley, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume *Inorganic Reaction Mechanisms Volume 4* A. McAuley, 1976 Annotation Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society

of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

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