

Cobaloximes: Models of Vitamin B₁₂

Jane Doe

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Abstract

In this experiment, the bromobis(dimethylglyoximate)(pyridine)cobalt(III) complex, $\text{CoBr}(\text{dmgH})_2(\text{py})$, was synthesized. The intermediate, $\text{Co}[\text{CH}(\text{CH}_3)_2](\text{dmgH})_2(\text{py})$, was isolated and analyzed with ^1H NMR spectroscopy using deuterated chloroform and deuterated benzene as solvents. The intermediate and the product were analyzed using IR spectroscopy. The NMR and IR spectral data for the two compounds is reported and discussed.

Introduction

Vitamin B₁₂, a cobalamin, is found in many animal-derived foods such as fish, meat, eggs, poultry, and dairy products. The vitamin is bound to the proteins found in these foods. As the food is consumed, the stomach acid (hydrochloric acid) releases the vitamin from the protein. Vitamin B₁₂ then combines with an intrinsic factor substance, a glycoprotein, before being absorbed into the bloodstream. This vitamin is essential for healthy nerve cells and red blood cells. Individuals with a vitamin

B₁₂ deficiency may have symptoms including weight loss, nausea, fatigue, anemia, and neurological disorders such as Alzheimer's disease.²

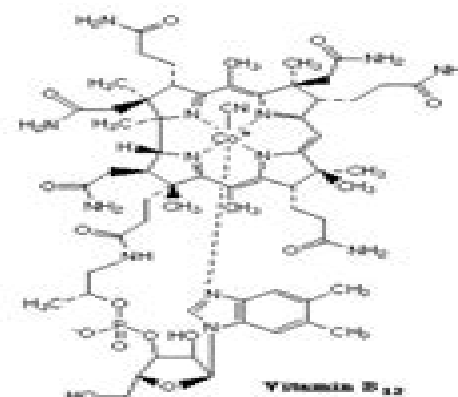


Figure 1. The structure of the Vitamin B₁₂ complex.¹

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Corinne Gosmini, Ilan Marek



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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

Vitamin B12 Derivatives and Cobaloximes Lian-Pin Ma Lee, 1970 [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 The Chemistry of Organocobalt Compounds Corinne Gosmini,Ilan Marek,2023-11-14 The Chemistry of Organocobalt Compounds R Co PATAI s Chemistry of Functional Groups The Chemistry of Organocobalt Compounds A series of advanced treatises founded by Professor Saul Patai and now under the general editorship of Professors Ilan Marek and Joel F Liebman PATAI s Chemistry of Functional Groups publishes comprehensive reviews on all aspects of specific functional groups Each volume contains outstanding surveys on theoretical and computational aspects NMR MS other spectroscopic methods and analytical chemistry structural aspects thermochemistry photochemistry synthetic approaches and strategies synthetic uses and applications in chemical and pharmaceutical industries biological biochemical and environmental aspects To date over 150 volumes have been published in the series Recently Published Titles The Chemistry of Cyclobutanes 2 parts The Chemistry of Peroxides Volume 2 2 parts The Chemistry of Organozinc Compounds 2 parts The Chemistry of Anilines 2 parts The Chemistry of Organomagnesium Compounds 2 parts The Chemistry of Hydroxylamines Oximes and Hydroxamic Acids 2 volumes 4 parts The Chemistry of Metal Enolates 2 parts The Chemistry of Organocopper Compounds 2 parts The Chemistry of Organomanganese Compounds The Chemistry of Organic Selenium and Tellurium Compounds Volume 3 2 parts The Chemistry of Organic Selenium and Tellurium Compounds Volume 4 2 parts The Chemistry of Organoiron Compounds The Chemistry of Metal Phenolates The Chemistry of Peroxides Volume 3 2 parts The Chemistry of Organogold Compounds 2 parts The Chemistry of Organoaluminum Compounds The Chemistry of Metal Enolates Volume 2 The Chemistry of Metal Phenolates Volume 2 The Chemistry of Hypervalent Halogen Compounds 2 parts The Chemistry of Nitrogen rich Functional Groups The Chemistry of Organoboron Compounds 2 parts Forthcoming Titles The Chemistry of Nitrogen rich Functional Groups Volume 2 The Chemistry of Organofluorine Compounds PATAI Online PATAI s Chemistry of Functional Groups is available in electronic format on Wiley Online Library

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Advances in Inorganic Chemistry and Radiochemistry, 1980-10-02 **Advances in Inorganic Chemistry and Radiochemistry** **Environmental Health Perspectives**, 1993 *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 prepamtions 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 Jordan N **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 provides 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 *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 **The Chemical Biology of Human Vitamins** Christopher Walsh, Yi Tang, 2019 This textbook provides a thorough chemocentric view on the key small molecules of life the human vitamins and their active coenzyme forms **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 complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973 **Aspects of the Chemistry of Vitamin B12 and Model Compounds** John Winton Sibert (III), 1970 Effect of Smoking on Nonsmokers United States. Congress. House. Committee on Agriculture. Subcommittee on Tobacco, 1978 **Inorganic Reaction Mechanisms** J Burgess, 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

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