# The Porphyrin Handbook

Volume 14
Medical Aspects of Porphyrins



Edited by Karl M. Kadish Kevin M. Smith Roger Guilard

## Porphyrin Handbook Heteroporphyrins Expanded Porphyrins And Related Macrocyclesthe

Karl Kadish, Kevin M. Smith, Roger Guilard

#### Porphyrin Handbook Heteroporphyrins Expanded Porphyrins And Related Macrocyclesthe:

The Porphyrin Handbook, Volume 2 Karl Kadish, Kevin M. Smith, Roger Guilard, 1999-10-15 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in biology and medicine The need for an up to date and authoritative treatise on the porphyrin system has met with universal acclaim amongst scientists and investigators **Porphyrin Handbook** Karl Kadish, Kevin M. Smith, Roger Guilard, 1999-10-29 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in biology and medicine The need for an up to date and authoritative treatise on the porphyrin system has met with universal acclaim amongst scientists and investigators The Porphyrin Handbook represents a timely publication dealing with the recent chemistry physics biology and medicine of porphyrins and related macrocycles This publication will be a major reference source in this field for the new millennium Editors are world renowned experts in their particular fields of physical chemistry bio organic chemistry and organometallic chemistry Consists of several thousand pages of articles written by internationally recognized experts Biological relevance of porphyrins is linked to their chemical physical and structural features Clear concise and uniform presentation with many hundreds of figures tables and structural formulae Of interest to theorists physicists chemists biochemists biologists and The Porphyrin Handbook Karl Kadish, Kevin M. Smith, Roger Guilard, 1999-10-29 Scientists in such medical scientists fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in biology and medicine The need for an up to date and authoritative treatise on the porphyrin system has met with universal acclaim amongst scientists and investigators The Porphyrin Handbook represents a timely publication dealing with the recent chemistry physics biology and medicine of porphyrins and related macrocycles This publication will be a major reference source in this field for the new millennium Editors are world renowned experts in their particular fields of physical chemistry bio organic chemistry and organometallic chemistry Consists of several thousand pages of articles written by internationally recognized experts Biological relevance of porphyrins is linked to their chemical physical and structural features Clear concise and uniform presentation with many hundreds of figures tables and structural formulae Of interest to theorists physicists chemists biochemists biologists and medical scientists The Porphyrin Handbook Karl Kadish, Kevin M. Smith, Roger Guilard, 1999-10-29 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are

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universal acclaim amongst scientists and investigators The Porphyrin Handbook represents a timely publication dealing with the recent chemistry physics biology and medicine of porphyrins and related macrocycles This publication will be a major reference source in this field for the new millennium Editors are world renowned experts in their particular fields of physical chemistry bio organic chemistry and organometallic chemistry Consists of several thousand pages of articles written by internationally recognized experts Biological relevance of porphyrins is linked to their chemical physical and structural features Clear concise and uniform presentation with many hundreds of figures tables and structural formulae Of interest to The Porphyrin Handbook, Volume 1 Karl theorists physicists chemists biochemists biologists and medical scientists Kadish, Kevin M. Smith, Roger Guilard, 2000 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in biology and medicine The need for an up to date and authoritative treatise on the porphyrin system has met with universal acclaim amongst scientists and investigators **Handbook Of Porphyrin Science: With** Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 31-35) Karl M Kadish, Kevin M Smith, Roger Guilard, 2014-06-06 This is the seventh set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogue and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications. As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come The Porphyrin Handbook Karl Kadish, Kevin M. Smith, Roger Guilard, 2000 The Porphyrin Handbook Volume 14 Medical

Aspects of Porphyrins provides information pertinent to every aspect of the chemistry synthesis spectroscopy and structure of phthalocyanines This book examines the biology and medical implications of porphyrin systems Organized into 12 chapters this volume begins with an overview of the underlying diagnostic features mechanisms and available treatments of erythropoietic disorders due to defective heme biosynthesis This text then examines the physiopathology of acute intermittent porphyria which is transmitted as autosomal dominant disorders with incomplete penetrance Other chapters consider the main characteristics of congenital erythropoietic porphyria which includes an increased synthesis accumulation ad excretion of porphyrins This book discusses as well the biochemistry pathophysiology and clinical features of variegate porphyria in the light of several essential advances in the understanding management and diagnosis of variegate porphyria The final chapter deals with the legal use of herbal and complementary medicines This book is a valuable resource for research scientists engineers and clinicians **Expanded, Contracted & Isomeric Porphyrins** J.L. Sessler, S.J. Weghorn, 1997-08-21 The porphyrins are a class of naturally occurring macrocycles and are ubiquitous in our world As such they have been called the Pigments of Life This auspicious designation reflects their importance in numerous biological functions Indeed life as we understand it relies on the full range of biological processes that are either performed by or catalyzed by porphyrin containing proteins Chlorophyll containing photosynthetic reaction centers in plants for instance convert light energy into chemical energy while producing oxygen along the way It is this oxygen evolved from photosynthesis that is transported stored and reduced by heme containing proteins in many organisms including mammals Not surprisingly therefore these molecules remain of fundamental interest to chemists and biochemists Indeed they continue to be intensely investigated by researchers world wide Inspired by the importance of the porphyrins a new research direction has emerged in recent years that is devoted to the preparation and study of non porphyrin polypyrrole macrocycles Here the principal objectives have been to generate completely synthetic systems that bear some structural resemblance to naturally occurring porphyrin derivatives while being quite different in their specific chemical makeup Within this context three different research directions have evolved namely those involving the syntheses of contracted isomeric and expanded porphyrins respectively It is the chemistry of these systems that is the subject of this book Because of the newness of the field the emphasis of this book will be on synthesis and characterization all work on porphyrin isomers and much of that associated with expanded porphyrins has only appeared in the last 10 years One chapter on applications has however been included Also in the context of the preparative portions of the text some efforts have been made to explain why various porphyrin analogue targets are of interest The Porphyrin Handbook, Volume 3 Karl Kadish, Kevin M. Smith, Roger Guilard, 2000 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in

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FUNDAMENTALS OF PORPHYRIN CHEMISTRY An indispensable and concise overview of the chemistry of porphyrins and related molecules In Fundamentals of Porphyrin Chemistry A 21st Century Approach a team of distinguished researchers delivers a compact and accessible introduction to the broad field of porphyrin chemistry. It discusses the basics of porphyrin synthesis and structure as well as that of related molecules and the current and future roles that porphyrins play in chemical transformations materials design and synthesis energy capture and transduction human health and the environment This edited volume is a self contained tutorial on concepts of critical importance to porphyrin chemistry and serves as the foundation for discussions about the applications of porphyrin related compounds found in the second volume This book contains A thorough introduction to porphyrins including their structure nomenclature naturally occurring porphyrins synthetic porphyrins and common families of porphyrin related compounds Comprehensive explorations of chemical porphyrin synthesis including how to synthesize porphyrins from simple symmetric and advanced ABCD substituted porphyrins Practical discussions of the physical characteristics of porphyrins including their structural features electronic structure spectroscopy magnetism electrochemistry and electron transfer processes Perfect for experienced academic researchers in the field of porphyrin chemistry seeking a quick reference Fundamentals of Porphyrin Chemistry A 21st Century Approach is also an indispensable resource for researchers new to the field who need an overview directing them to literature in more focused areas The Porphyrin Handbook: Biochemistry and binding: activation of small molecules Karl M. Kadish, 2000 Handbook of Porphyrin Science (Volumes 1 - 5): With Applications to Chemistry, Physics, Materials Science, Engineering, Biology and Medicine Karl M. Kadish, Roger Guilard, Kevin M. Smith, 2010 This is the first set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrated new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique Handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors of the chapters This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date

works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come Readership Chemists physicists material scientists polymer scientists spectroscopists electrochemists electronics and photonics engineers biochemists biophysicists medicinal chemists and clinicians The Porphyrin Handbook, Volume 5 Karl Kadish, Kevin M. Smith, Roger Guilard, 1999-10-15 Scientists in such fields as mathematics physics chemistry biochemistry biology and medicine are currently involved in investigations of porphyrins and their numerous analogues and derivatives Porphyrins are being used as platforms for the study of theoretical principles as catalysts as drugs as electronic devices and as spectroscopic probes in biology and medicine The need for an up to date and authoritative treatise on the porphyrin system has met with universal acclaim amongst scientists and investigators The Porphyrin Handbook Karl Kadish, Kevin M. Smith, Roger Guilard, 2000 The Porphyrin Handbook Volume 18 Multiporphyrins Multiphthalocyanines and Arrays provides information pertinent to every aspect of the chemistry synthesis spectroscopy and structure of phthalocyanines This book examines the biology and medical implications of porphyrin systems Organized into five chapters this volume begins with an overview of the results obtained in the research concerning the properties and formation of a class of metal phthalocyanine derivatives containing of two macrocyclic units This text then examines the luminescence and photophysical data of multiporphyrin systems in which the chromophore centers are held together by weak medium or strong bonding interactions Other chapters consider the intensive electronic absorption and circular dichroism properties of chiral phthalocyanines This book discusses as well the chemistry porphyrin and corrin systems. The final chapter deals with geoporphyrins or sedimentary porphyrins which are the most abundant porphyrin derivatives on earth This book is a valuable resource for research scientists engineers and clinicians The Porphyrin Handbook Roger Guilard, Karl Kadish, Kevin M. Smith, 2012-12-02 The Porphyrin Handbook Volume 11 Bioinorganic and Bioorganic Chemistry presents the fundamental aspects of the synthesis structure chemistry and spectroscopy of phthalocyanines This book discusses the biology and medical implications of porphyrin systems Organized into seven chapters this volume begins with an overview of the design synthesis and study of the structural and functional models of heme copper terminal oxidases This text then examines the proteins containing iron protoporphyrin IX heme which play key roles in photosynthesis and respiration Other chapters consider the syntheses of chiral porphyrin derivatives and summarize the uses of such compounds in enantioselective control This book discusses as well the reactivity and synthesis of synthetic carbine metalloporphyrins The final chapter deals with the B12 coenzymes which is the most complex and physiologically important organometallic enzymatic reactions that directly depend on the reactivity of metal coordinated organic ligands This book is a valuable resource for research scientists clinicians and engineers

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