

# **Oxidation of Organic Compounds**

**Medium Effects in Radical Reactions**

**Emanuel, Zaikov and Maizus**

# Oxidation Of Organic Compounds Medium Effects In Radical Reactions

**S. Halim Hamid**



## **Oxidation Of Organic Compounds Medium Effects In Radical Reactions:**

**Oxidation of Organic Compounds** N. M. Emanuel, G. E. Zaikov, Z. K. Maizus, 2013-10-22 Oxidation of Organic Compounds Medium Effects in Radical Reactions explores the role of solvents and of the composition of phase states in radical chain processes involved in the oxidation of organic compounds Organized into 10 chapters this book begins with a discussion of the basic concepts relating to the mechanism involved in the oxidation of hydrocarbons and other organic compounds in liquid phase reactions Subsequent chapters detail some methods for studying the mechanism of oxidation reactions role of solvation in chemical reaction kinetics role of the medium in chain initiation reactions role of non specific and specific solvation in chain propagation and chain termination reactions and the role of solvation in chain termination reactions in inhibitors The influence of the solvent and the phase state of substances undergoing oxidation on the rates and mechanisms of individual elementary processes are also addressed The last chapter examines the problem of the influence of the solid state of the polymer on the reactivity of radicals This monograph will be valuable to scientific research workers engineers and engineering technologists specializing in the field of radical reactions and in particular in the oxidation of organic compounds

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**Oxidation and Antioxidants in Organic Chemistry and Biology** Evgeny T. Denisov, Igor B. Afanas'ev, 2005-03-29 Providing a comprehensive review of reactions of oxidation for different classes of organic compounds and polymers and biological processes mediated by free radicals Oxidation and Antioxidants in Organic Chemistry and Biology puts the data and bibliographical information you need into one easy to use resource You will find up to date information [Chemical kinetics](#) Elena Burlakova, Alexander Evgen'evich Shilov, Sergey Dmitrievich Varfolomeev, Gennady Zaikov, 2005-10-28 The volume is devoted to the problem of chemical kinetics on modern level The book includes information on chemical physics of nanocomposites degradation stabilization and flammability of polymeric materials as well as free radical mechanism of oxidation of organic compounds thermostability mechanism of action of catalytical systems and inhibitors in free radical reactions in liquid and solid phase pure and applied chemistry of antioxidants synthesis and application ionic reactions effect of chemoluminescence in the processes of oxidation biodegradation and application of polymers in medicine problems of adhesion of microorganisms on the surface of materials thermo photo and hydrolytic reactions creation of new ecologically friendly flame retardants for polymers polymer composites and polymer blends as well as filled polymers

*Electron Transfer Reactions in Organic Chemistry* Lennart Eberson, 2012-12-06 The subject of the book is electron transfer reactions in organic chemistry with the emphasis on mechanistic aspects The theoretical framework is that of the Marcus theory well known from its extensive use in inorganic chemistry The book deals with definitions of electron transfer theory of electron transfer reactions Marcus and Pross Shaik's approach experimental diagnosis of electron transfer reactions examples from inorganic organic reactants and purely organic reactants electro and photochemical electron transfer electron transfer

catalyzed reactions connections between electron transfer and polar mechanisms and applications of electron transfer such as electrosynthesis of organic chemicals photochemical energy storage conducting organic materials and chemiluminescence The approach is new in so far as no comparable book has been published The book will be of value to anyone interested in keeping track of developments in physical organic chemistry      *Quantitative Aspects of Polymer Stabilizers* Gennadiĭ Efremovich Zaikov,1996 *Quantitative Aspects of Polymer Stabilizers*      *Recent Advances in Polymer Chemical Physics* Dunsan C Prevorsek,2024-12-06 The Institute of Chemical Physics of the Russian Academy of Sciences has become one of the world s premiere centers for studies of polymeric materials in use during processing and in harsh environments The Institute s focus is on commercially available materials and their modifications to improve performance through advanced theoretical analysis and implementation of experimental results Selected papers from the Institute have been incorporated into five sections Stabilization and Degradation Biochemistry Photochemistry Rheology and Flame Retardancy and should provide invaluable background to producers of polymeric materials      **Handbook of Polymer Degradation** S. Halim Hamid,2000-06-30 Covers recent advances in polymer degradation and stabilization Focuses on the basics of photo and bio degradability Delineates special and general environmental parameters such as solar irradiation temperature and agrochemical exposure Surveys plastic waste disposal strategies such as recycling incineration chemical recovery by pyrolysis and source reduction      *Key Engineering Materials* François Kajzar,Eli M. Pearce,Nikolai A. Turovskij,Omari V. Mukbaniani,2014-02-18 This book provides innovative chapters on the growth of educational scientific and industrial research activities among chemists biologists and polymer and chemical engineers and provides a medium for mutual communication between international academia and the industry It presents significant research and reviews reporting new methodologies and important applications in the fields of industrial chemistry industrial polymers and biotechnology as well as includes the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and polymer engineering      **Key Engineering Materials, Volume 2** Francois Kajzar,Eli M. Pearce,Nikolai A. Turovskij,Omari V. Mukbaniani,2014-02-18 This book provides innovative chapters on the growth of educational scientific and industrial research activities among chemists biologists and polymer and chemical engineers and provides a medium for mutual communication between international academia and the industry It presents significant research and reviews reporting new methodologies an      **Degradation and Stabilization of Polymers** Gennadiĭ Efremovich Zaikov,1995      **Kinetic and Thermodynamic Aspects of Polymer Stability** Gennadiĭ Efremovich Zaikov,1996 *Kinetic Thermodynamic Aspects of Polymer Stability*      **Polymers for Advanced Technologies** Gennady E. Zaikov,Liliya I. Bazilyak,Jimsher N. Aneli,2013-03-04 This book provides an abundance of information about the science and application of nanoparticles in the creation of nanocomposite materials covering the synthesis properties and applications of nanomaterials Written by experts in their fields the chapters provide important updates on a number of aspects of

nanomaterials and their practical app

**Biodamage and Biodegradation of Polymeric Materials** Elena L

Pekhtasheva, 2012-08-31 The issue of biodamages comprises a wide range of scientific and practical tasks associated with protection of raw materials and products against damage by bacteria fungi insects and rodents during long term storage production transportation and operation The biodegradation is used for degradation and utilization of worn out materials and articles This research is urgent for ecology and the struggle against environmental contamination The biodamage problem is both scientifically complex and practically diverse Scientifically it is based on the knowledge of material science biology and chemistry The first objective of this book is to provide detailed information on the three interrelated parts bacteria and fungi the source of biodamages insects and rodents materials and products depredators and materials and products damaged by living organisms The most modern data on morphology and physiology of biodegrading microorganisms are presented The second objective of this book is to provide the reader with a systematisation of biological degradation on both natural and synthetic materials and products plastics textile fibres leather and fur wood and so on Problems of utilisation of polymeric wastes using microorganisms are discussed and main protection methods and technology for raw materials and semi products against biodamages are shown Practical recommendation for struggle against biodamage of materials by insects moth leather beetles wood fretters cockroaches and termites and rodents mice and rats are given Since 1960 the biodamage problem received the official status as a large international and practical direction at the junction of sciences and practice of mankind and pooling efforts of various specialists The final objective of this book is to illustrate that the problem of biodamages is very real today because it is relevant to many aspects of our everyday lives This volume is intended to be a practical guide on biodamage and biodegradation of polymeric materials and a quick reference to students and researchers from academia and the industry

**Ion-Radical Organic Chemistry** Zory Vlad Todres, 2008-10-20 Consolidating

knowledge from a number of disciplines Ion Radical Organic Chemistry Principles and Applications Second Edition presents the recent changes that have occurred in the field since the publication of the first edition in 2003 This volume examines the formation transformation and application of ion radicals in typical conditions of organic synthesis Avoiding complex mathematics the author explains the principles of ion radical organic chemistry and presents an overview of organic ion radical reactions He reviews methods of determining ion radical mechanisms and controlling ion radical reactions Wherever applicable the text addresses issues relating to ecology and biomedical concerns as well as inorganic participants of the ion radical organic reactions After reviewing the nature of organic ion radicals and their ground state electronic structure the book discusses their formation the relationship between electronic structure and reactivity mechanism and regulation of reactions stereochemical aspects synthetic opportunities and practical applications Additional topics include electronic and opto electronic devices organic magnets and conductors lubricants other materials and reactions of industrial or biomedical importance The book concludes by providing an outlook on possible future development in this field Researchers and

practitioners engaged in active work on synthetic or mechanistic organic chemistry and its practical applications will find this text to be invaluable in both its scope and its depth

#### **Developments in Polymer Stabilisation—8 G.**

Scott, 2012-12-06 The purpose of the present series of publications is two fold In the first place it is intended to review progress in the development of practical stabilising systems for a wide range of polymers and applications A complementary and ultimately more important objective is to accommodate these practical developments within the framework of antioxidant theory since there can be little question that further major advances in the practice of stabilisation technology will only be possible on the basis of a firm mechanistic foundation Research into the role of stable free radicals as antioxidants and stabilisers for polymers has intensified in recent years Nitroxyl radicals nitroxides were the earliest long lived radicals to be investigated in detail and Maslov and Zaikov review the developments that have taken place in understanding their reaction mechanisms from the time when they were first investigated in liquid hydrocarbon systems to the present day when their outstanding performance as light stabilisers has been the object of much scientific research Although some features of their reactivity remain obscure the authors approach the problem kinetically and indicate the factors limiting their effectiveness

*Progress in Physical Organic Chemistry* Andrew Streitwieser, Robert W.

Taft, 2009-09-17 Progress in Physical Organic Chemistry is dedicated to reviewing the latest investigations into organic chemistry that use quantitative and mathematical methods These reviews help readers understand the importance of individual discoveries and what they mean to the field as a whole Moreover the authors leading experts in their fields offer unique and thought provoking perspectives on the current state of the science and its future directions With so many new findings published in a broad range of journals Progress in Physical Organic Chemistry fills the need for a central resource that presents analyzes and contextualizes the major advances in the field The articles published in Progress in Physical Organic Chemistry are not only of interest to scientists working in physical organic chemistry but also scientists working in the many subdisciplines of chemistry in which physical organic chemistry approaches are now applied such as biochemistry pharmaceutical chemistry and materials and polymer science Among the topics explored in this series are reaction mechanisms reactive intermediates combinatorial strategies novel structures spectroscopy chemistry at interfaces stereochemistry conformational analysis quantum chemical studies structure reactivity relationships solvent isotope and solid state effects long lived charged sextet or open shell species magnetic non linear optical and conducting molecules and molecular recognition

**Handbook of Antioxidants** Evgeny T. Denisov, Taissa Denisova, 1999-11-11 Designed for scientists and engineers involved in the chemistry and technology of antioxidants the Second Edition of this popular handbook continues to provide comprehensive data on the thermodynamics and reactivity of antioxidants Fully revised and updated the Second Edition provides the latest data on antioxidants and polymer stabilizers new data for biological antioxidants a corrected list of bond dissociation energies and a full bibliography Additions and changes in the New Edition

The latest data on O H bond dissociation energies of phenols and the new scale these values Thermodynamic functions of antioxidants and their intermediate presented in tables A table with current data on dissociation energies of C H bonds of hydrocarbons and oxygen containing compounds Rate constants and activation energies of reactions of antioxidants with ozone nitrogen dioxide and hydroperoxide Kinetic characteristics of benzoquinone reactions with antioxidants Rate constants of free radical generation through biomolecular reactions with ozone nitrogen dioxide and hydroperoxide All calculated data from the first edition has been recalculated in accordance with new data on dissociation energies and parameters of reactivity Data on thermodynamics of hydrogen bond formation of antioxidants All data on cyclic mechanisms of chain termination by antioxidants collected into a special chapter Special chapters on bioantioxidants and stabilization of polymers The Handbook of Antioxidants puts essential data at your fingertips Its comprehensive nature and ease of use make it the resource for scientific researchers and engineers working in the field of physical chemistry of antioxidants Industrial Waste Kuan-Yeow Show,Xinxin Guo,2012-03-07 This book is intended to fulfil the need for state of the art development on the industrial wastes from different types of industries Most of the chapters are based upon the ongoing research how the different types of wastes are most efficiently treated and minimized technologies of wastes control and abatement and how they are released to the environment and their associated impact A few chapters provide updated review summarizing the status and prospects of industrial waste problems from different perspectives The book is comprehensive and not limited to a partial discussion of industrial waste so the readers are acquainted with the latest information and development in the area where different aspects are considered The user can find both introductory material and more specific material based on interests and problems For additional questions or comments the users are encouraged to contact the authors Radical Reactions in Aqueous Media V. Tamara Perchyonok,2010 Radical Reactions in Aqueous Media provides a step wise introduction taking students from the basic principles of radical reactions through to their applications in industry and their role in biological and environmental processes Jacket

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