

Antioxidative Stabilization of Polymers

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S. G. Kiryushkin and
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Antioxidative Stabilization Of Polymers

Evgeny T. Denisov, Taissa Denisova



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Kinetic and Thermodynamic Aspects of Polymer Stability Gennadii Efremovich Zaikov, 1996 Kinetic Thermodynamic Aspects of Polymer Stability **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 intermediates 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

Stabilization of Polymers and Stabilizer Processes American Chemical Society, Norbert A. J. Platzer, American Chemical Society. Division of Industrial and Engineering Chemistry, 1967

Mechanisms of Polymer Degradation and Stabilisation G. Scott, 2012-12-06 The purpose of this publication 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 a firm mechanistic foundation With the continual increase in the number of commercial antioxidants and stabilisers often functioning by mechanisms not even considered ten years ago there is a need for a general theory which will allow the potential user to predict the performance of a particular antioxidant structure under specific practical conditions Any such predictive tool must involve a simplified kinetic approach to inhibited oxidation and in Chapter 1 Denisov outlines a possible mechanistic approach with the potential to predict the most useful antioxidant to use and the limits of its usefulness In Chapter 2 Schwetlick reviews the current state of knowledge on the antioxidant mechanisms of the phosphite esters with particular emphasis on their catalytic peroxidolytic activity Dithiophosphate derivatives show a similar behaviour but for quite different reasons and in Chapter 3 Al Malaika reviews information available from analytical studies particularly using ^{31}P NMR spectroscopy to elucidate the complex chemistry that leads to the formation of the antioxidant active agents

Polymers, Phosphors, and Voltaics for Radioisotope Microbatteries Kenneth E. Bower, Yuri A. Barbanel, Yuri G. Shreter, George W. Bohnert, 2002-06-19 As the first book written solely on the subject of nuclear batteries and their potential to revolutionize the electronics industry this text will appeal to a broad audience from engineers to energy policy makers This collection of contributions from leading U S and Russian nuclear researchers contains diverse discussions of the problems of using radioactive material for microelectronic power needs and it guides readers to future research in the area of long life high energy density batteries It describes the state of interdisciplinary research in radiochemistry tritium storage semiconductor fabrication integration into MEMS and other electronic devices and much more

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 biodegradability 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 Aging and Stabilization of Polymers M. B. Neiman, 2012-12-06 The need for a broad development of the production of polymer materials has become evident All these materials are subject to various types of aging destruction hence stabilizers which permit the storage reprocessing and use of polymer materials without any appreciable change in their properties must be introduced into them In recent years this problem of stabilizing polymers has attracted the attention of many scientists and technologists both in the USSR and abroad The scientific basis of the foreign studies will be found in a number of theoretical premises but chiefly the theory of chain reactions with unbranched chains In the Soviet Union the concepts of Academician N N Semenov on chain reactions with degenerate branches have become the starting point of theoretical studies of the stabilization and destruction of polymers Soviet scientists have developed a theory of critical concentrations of antioxidants and have shown that the processes of stabilization have a very complex chemical character The nature of the polymers themselves greatly affects these processes and consequently different stabilizers are required for polymers of different structures In addition it has been shown that the antioxidants used thus far can not only cause chain termination but can also initiate oxidation and give rise to degenerate branches **Interactions of Polymers with Bioactive and Corrosive Media** Gennady Zaikov, Iordanskii, Rudakova, 2023-01-27 Natural polymers have always been used in medicine However the development of synthetic polymers for use in medicine has occurred only in the last few decades The successful applications of these synthetic polymers in medicine depend mainly on their physicochemical and special characteristics such as biological compatibility with tissues stability durability and elasticity This book deals mainly with the kinetic and structural aspects which are essential for the realization of these characteristics The authors have examined in detail the processes of diffusion chemical and biological diintegration changes in various structural levels induced by chemical and biological media and the problems of simultaneous influence of these media and mechanical strains on polymers used in medicine Researchers in the field of polymer physics and chemistry as well as those who are working with applications of polymers in medicine and biology should find this book useful

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