

Silicones Chemistry and Technology

Koerne

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Chemistry And Technology Of Silicones

Walter Noll



Chemistry And Technology Of Silicones:

Chemistry and Technology of Silicones Walter Noll, 2012-12-02 Chemistry and Technology of Silicones retains the nature of a monograph despite its expanded scope giving the reader in condensed form not only a wide ranging but also a thorough review of this rapidly growing field In contrast to some other monographs on organosilicon compounds that have appeared in the interim the silicones occupy in this edition the central position and the technological part of the work is entirely devoted to them This book comprises 12 chapters and begins with a general discussion of the chemistry and molecular structure of the silicones The following chapters then discuss preparation of silanes with nonfunctional organic substituents monomeric organosilicon compounds R_nSiX_{4-n} and organosilanes with organofunctional groups Other chapters cover preparation of polyorganosiloxanes the polymeric organosiloxanes other organosilicon polymers production of technical silicone products from polyorganosiloxanes properties of technical products applications of technical silicone products in various branches of industry esters of silicic acid and analytical methods This book will be of interest to practitioners in the fields of molecular chemistry

Silicones Chemistry & Technology Koerner, 1991 Lectures translated from the German presented at a one day symposium held on Apr 28 1989 at the Haus der Technik

Chemistry and Technology of Silicones Daniel B. Olfe, 1968

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Porous Silica KK Unger, 1979-01-01 Porous Silica

An Introduction to the Chemistry and Technology of Silicones Peter A. Salamon, Society of Manufacturing Engineers, 1986

Biomaterials Science Buddy D. Ratner, 2004-07-29 Completely revised and expanded update of the best selling classic text reference which defined an entire subject field

The Chemistry and Technology of the Silicones, 1947

An Introduction to Plastics Hans-Georg Elias, 2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts geändert Es ist eine präzise aber nicht mathematische Einführung in das Gebiet der Kunststoffe Die ökonomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm Wichtigste Zeit also für die Neuauflage dieser erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Flie ßverhalten und Verarbeitung wurden gegenüber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch wer über die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß

geschrieben wird belegen auch sein Aufbau sowie der sehr praktische bersichtliche Index Ob Chemiker Physiker
 Materialwissenschaftler Ingenieure oder Techniker Wer sich einen berblick ber Kunststoffe und Polymere verschaffen m chte
 d rfte kaum ein geeigneteres Buch finden *Silicone Resins and Their Combinations* Wernfried Heilen,Sascha
 Herrwerth,2014-12-01 Get a concentrated overview of the chemistry and technology of silicone resins and a deep insight into
 their use from an industrial point of view this completely revised and expanded edition reports on most recent developments
 and points out the outstanding properties of silicones for coatings Essential for any formulator of competitivemodern paint
 systems Industrial Polymers, Specialty Polymers, and Their Applications Manas Chanda,Salil K. Roy,2008-07-18 Derived
 from the fourth edition of the well known *Plastics Technology Handbook* Industrial Polymers Specialty Polymers and Their
 Applications covers a wide range of general and special types of polymers **Absorption-Based Post-Combustion**
Capture of Carbon Dioxide Paul Feron,2016-05-27 Absorption Based Post Combustion Capture of Carbon Dioxide provides
 a comprehensive and authoritative review of the use of absorbents for post combustion capture of carbon dioxide As fossil
 fuel based power generation technologies are likely to remain key in the future at least in the short and medium term carbon
 capture and storage will be a critical greenhouse gas reduction technique Post combustion capture involves the removal of
 carbon dioxide from flue gases after fuel combustion meaning that carbon dioxide can then be compressed and cooled to
 form a safely transportable liquid that can be stored underground Provides researchers in academia and industry with an
 authoritative overview of the amine based methods for carbon dioxide capture from flue gases and related processes Editors
 and contributors are well known experts in the field Presents the first book on this specific topic Handbook of Silicone
Rubber Fabrication Wilfred Lynch,1978 Synthetic Adhesives and Sealants W. C. Wake,1987-05-08 This collection of
 critical reports covers the technology of the materials produced by the chemist known as contact hot melt and toughened
 adhesives Coverage includes the preparation and curing of silicone polymers for adhesives sealants and coupling agents
 primers The final chapter discusses the methods and materials used by marine organisms to attach themselves to varied
 substrates to their advantage but often to man s disadvantage These adhesives are all polymers of one sort of another and
 they are used by engineers in industries ranging from airplane manufacture to yacht building The polymers used for contact
 adhesives are formulated with tackifying resins which must be in molecularly intimate contact with the polymer The
 alternative solvent free hot melt adhesives can be similarly compounded with additives but variations in the base polymer are
 more easily achieved with the synthesis of a range of copolyesters or polyamides Modern structural adhesives are toughened
 either by precipitation of a second phase from solution in a polymer or by the direct incorporation of finely dispersed rubber
 All this and more is revealed in detail for the reader with a background in chemistry *The Science and Technology of*
Silicones and Silicone-Modified Materials Stephen J. Clarson,John J. Fitzgerald,Micheal J. Owen,Steven S. Smith,Mark E. Van
 Dyke,2007-08-16 The world wide sales of polysiloxanes or silicones at the beginning of this new millennium is approximately

10 billion per year Commercial products range from those entirely composed of silicone to products where the silicone is a low level but key component This symposium covered the recent academic and technological developments behind silicones and silicone modified materials **Modeling the Vulcanization of Liquid Silicone Rubbers** Lina Maria Lopez,2004

The Chemistry of Silicon E. G. Rochow,2013-10-22 Pergamon Texts in Organic Chemistry Volume 9 The Chemistry of Silicon presents information essential in understanding the chemical properties of silicon The book first covers the fundamental aspects of silicon such as its nuclear physical and chemical properties The text also details the history of silicon its occurrence and distribution and applications Next the selection enumerates the compounds and complexes of silicon along with organosilicon compounds The text will be of great interest to chemists and chemical engineers Other researchers working on research study involving silicon will also benefit from the book **Polymer Syntheses** Stanley R. Sandler,Wolf Karo,1992 This revised and updated Second Edition of Polymer Synthesis II continues in the tradition of Volume I in presenting detailed laboratory instructions for the preparation of various polymers Each chapter is organized by functional groups and each chapter not only presents preparative methods but also includes a brief introductory summary reviews of the very latest journal articles and patents and safety hazards and precautions Procedures have been chosen on the basis of safety considerations and ease of being carried out with standard laboratory equipment This comprehensive treatment of each polymer group makes Polymer Synthesis II an indispensable guide for industrial and academic chemists as well as for students in the field Covers each polymer class heavily referencing these with patent literature to illustrate commercial applications Provides new and updated information for each functional group Contains many new preparations including

Silicon-based Inorganic Polymers Roger De Jaeger,Mario Gleria,2008 Inorganic polymers are large molecules usually linear or branched chains with atoms other than carbon in their backbone In this new advanced research book silicon based inorganic polymers are treated by J Cypryk Poland G Kickelbick Austria X Coqueret France A Colas Belgium J Koe Japan W Uhlig Switzerland and by M Rehahn and M Weinmann Germany Different aspects of phosphorus containing macromolecules are described by F F Stewart USA R De Jaeger and L Montagne France and by M Carenza S Lora and M Gleria Italy Tin and germanium based polymers are illustrated by M Okano Japan while inorganic dendrimers are presented by A M Caminade and J P Majoral France and by V Balzani Italy Miscellaneous topics covering the flame retardant and the intumescent behavior of the inorganic macromolecules S Bourbigot France ionically conductive inorganic macromolecules E Montoneri Italy and chiral inorganic polymers G A Carriedo and J F Garcia Alonso Spain are also addressed

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