

Nonionic Surfactants Alkyl Polyglucosides Surfactant Science

Nonionic Surfactants Alkyl Polyglucosides Alkyl Polyglycosides Surfactant Science and Technology Design and Selection of Performance Surfactants Handbook of Detergents, Part E Surfactants Analysis and Fate of Surfactants in the Aquatic Environment Handbook of Surfactant Analysis Mechanical Engineering and Materials Science Household & Personal Products Industry Trends in Colloid and Interface Science XII Kirk-Othmer Encyclopedia of Chemical Technology, Volume 24 Alkyl Polyglycosides The Indian Textile Journal Ullmann's Encyclopedia of Industrial Chemistry McCutcheon's Emulsifiers & Detergents Alkylglucosides Optimising Pesticide Applications Industrial Applications of Surfactants III Dieter Balzer Ivana Pantelic Karlheinz Hill Drew Myers David R. Karsa Uri Zoller AEPSAT Thomas P. Knepper Dieter O. Hummel M.R. Xue European Colloid and Interface Society. Conference Kirk-Othmer Karlheinz Hill Sorabji M. Rutnagur Frederik Nilsson N. M. Western D. R. Karsa

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this volume provides a comprehensive overview for recognizing and producing the characteristics of successful special surfactant agents it highlights one of the most versatile and effective surface active surfactant agents detailing the synthesis and production chemical properties and behaviours and application for alkyl polyglucosides

the on going green trend in the personal care industry coupled with global environmental concerns place natural origin biodegradable and skin friendly surfactants such as alkyl polyglucosides apgs in high demand after successful use in cosmetics sufficient data has been obtained to welcome some sugar emulsifiers into the field of drug dosage alkyl polyglucosides presents a comprehensive compendium which guides a researcher from the apg related preformulation stages to formulation processing including the investigation of various apg stabilized systems skin performance this book introduces various apg representatives their benefits in relation to certain conventional surfactants physicochemical and interfacial properties possible interaction with commonly used ingredients and diverse characterization techniques indispensable for the assessment of colloidal systems the first chapter introduces alkyl polyglucosides followed by chapters on their properties behaviour an overview of the patent protection mechanisms and guidelines for submitting patent applications finally a conclusion surveys international patent applications involving apgs introduces the field of alkyl polyglucoside emulsifiers listing all the contemporary and newly synthesized apg emulsifiers provides detailed information on various aspects of apg based structures reveals potential of apg stabilized vehicles as prospective delivery systems using several model drugs and cosmetic actives includes an up to date review of research conducted in the field of apgs facilitating future preformulation and formulation studies for researchers offers a concise and practical compendium of characterization techniques

the first comprehensive survey on the uses of alkyl polyglycosides as renewable resources for the chemical industry experts from

industry show in detail how alkyl polyglycosides can help chemists to improve their products since quite a few years renewable resources are of increasing interest for the chemical industry alkyl polyglycosides are among the frequently used substances produced from renewable resources their science as well as technological applications are described in this book competently and with a focus on industrial use

a solid introduction to the field of surfactant science this new edition provides updated information about surfactant uses structures and preparation as well as seven new chapters expanding on technology applications offers a comprehensive introduction and reference of the science and technology of surface active materials elaborates more fully than prior editions aspects of surfactant crystal structure as well as their effects on applications adds more information on new classes and applications of natural surfactants in light of environmental consequences of surfactant use

design and selection of performance surfactants is the resource for clear informative in depth reviews of the most topical areas of surfactant science and technology this is the second volume in an annual series already recognized as an essential resource for major developments in the field topics in this volume include spontaneous polymerization in organized micellar media the catalytic and kinetic effects in ethoxylation processes narrow and secondary alcohol ethoxylates plus the latest advances in fluorsurfactants and carbohydrate derived surfactants further readings cover the cutting edge microbial and enzymatic production of biosurfactants advances in the computer modeling of surfactants international contributors detail the latest applications in oil drilling floor polishes and food emulsification science and industry are constantly refining research and finding new applications for surface chemical technology reading design and selection of performance surfactants is the most efficient and accessible way for chemists researchers and manufacturers to stay abreast of the latest developments

an examination of detergent applications the fifth volume in a six volume project penned by detergent industry experts this segment deals with the various applications of detergent formulations surfactants builders sequestering chelating agents as well as other components these applications are discussed with respect to the scope of their domestic institutional or industrial usages special focus is given to technological advancement health and environmental concerns and the rapid changes occurring in the field within the past several years with each chapter providing the special access of a pioneering researcher this text offers an insider's look at the most current advances

an understanding of the fate and behaviour of organic chemicals such as surfactants in the environment is a prerequisite for the sustainable development of human health and ecosystems as surfactants are being produced in huge amounts it is important to have a detailed knowledge about their lifetime in the environment their biodegradability in wastewater treatment plants and in natural waters and their ecotoxicity parameters relevant for the assessment of long term behaviour such as interactions with hormonal systems need to be understood to avoid unexpected adverse effects to future generations of people and the environment however the identification and quantification of commercial surfactants in the environment is made more complicated and cumbersome because they comprise of tens to hundreds of homologues oligomers and isomers of anionic nonionic cationic and amphoteric compounds the eu funded pristine project priority surfactants and their toxic metabolites in wastewater effluents an integrated study env4 ct97 0494 provides the basis for the content of this title it provides policy makers and industry with detailed information on analysis and concentrations of surfactants and their degradation products in the environment in addition to a general introduction to surfactants this book comprises a comprehensive variety of analytical techniques including sample handling for the analysis of surfactants in the aquatic environment readers will find all the necessary information for analyzing the different groups of surfactants with special emphasis on transformation products quality assurance is also reported on in detail chapters on toxicity and risk assessment are also included and give a complete perspective on the surfactants problem in the aquatic environment

handbook of surfactant analysis chemical physico chemical and physical methods is a translation of the successful german book analyse der tenside and incorporates the leading chemical physio chemical and physical methods of surfactant analysis with special emphasis on infrared spectroscopy since the first edition of analyse der tenside 1962 no other book has come close to dealing exclusively with the many analytical methods for this important group of substances the scope of this book is broad with coverage not only of analytical data but also of important data relevant to the industrial production and uses of various classes of compounds the fundamental principles and applications of modern spectroscopic and electroanalytical techniques now playing an increasingly important role as routine methods in analytical practice are also described the book is richly and informatively illustrated and includes a comprehensive and up to date bibliography chapter topics include structural characteristics and classifications of surfactants sample preparation isolation and characterisation of surfactants detection of interfacially active ions controlled decomposition separation of mixtures of surfactants methods of quantitative analysis of surfactants spectrometry and electrometry other physical and physico chemical methods

selected peer reviewed papers from the 2014 international conference on intelligent mechanics and materials engineering icimme 2014 december 27 28 2014 shenzhen china

the 11th conference of the european colloid and interface society ecis was held in lunteren the netherlands the scientific program covered theoretical experimental and technical aspects of modern colloid and interface science this volume contains a selection of contributions in the following fields new topics in colloid science polymer colloids rheology surfactant colloids polymers and surfactants at interfaces

the fifth edition of the kirk othmer encyclopedia of chemical technology builds upon the solid foundation of the previous editions which

have proven to be a mainstay for chemists biochemists and engineers at academic industrial and government institutions since publication of the first edition in 1949 the new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology

the first comprehensive survey on the uses of alkyl polyglycosides as renewable resources for the chemical industry experts from industry show in detail how alkyl polyglycosides can help chemists to improve their products since quite a few years renewable resources are of increasing interest for the chemical industry alkyl polyglycosides are among the frequently used substances produced from renewable resources their science as well as technological applications are described in this book competently and with a focus on industrial use

this publication continues the theme of the two previous publications of this name and presents practical descriptions of various surfactants and their applications each volume contains new and additional information to the former creating a library of invaluable and complementary information on the subject industrial applications of surfactants iii explores several new areas such as oligomeric polymeric surfactants it discusses newer species such as the alkyl polyglycosides alkyl pyrrolidones and betaine esters and assesses more conventional surfactants such as alkyl benzene sulphonates amine ethoxylates and imidazolines this introductory level volume places an emphasis on practical applications and will enable development chemists and formulators to identify products to meet their specific needs it will also provide them with much needed information on recent innovative developments in the field

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