

Nonionic Surfactants Alkyl Polyglucosides Surfactant Science

Nonionic Surfactants Alkyl Polyglucosides Alkyl Polyglycosides Surfactants Industrial Applications of Surfactants IV Analysis and Fate of Surfactants in the Aquatic Environment Handbook of Surfactant Analysis Specialist Surfactants Mechanical Engineering and Materials Science Trends in Colloid and Interface Science XII Household & Personal Products Industry Optimising Pesticide Applications Industrial Applications of Surfactants III McCutcheon's Emulsifiers & Detergents The Engineering Index Annual Alkylglucosides Alkyl Polyglycosides Ullmann's Encyclopedia of Industrial Chemistry The Indian Textile Journal Handbook of Applied Surface and Colloid Chemistry Dieter Balzer Ivana Pantelic Karlheinz Hill AEPSAT D R Karsa Thomas P. Knepper Dieter O. Hummel I.D. Robb M.R. Xue European Colloid and Interface Society. Conference N. M. Western D. R. Karsa Frederik Nilsson Karlheinz Hill Sorabji M. Rutnagur Krister Holmberg

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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

environmental considerations are increasingly shaping the development of many industries this is an overview of surfactants and the environment it goes on to look at new surfactants derived from renewable natural resources such as sucrose seaweed and starch other chapters review a decade of change in the surfactant industry and assess future market trends some of the developments in surfactant technology are presented including gemini twin chained surfactants sulfobetaines alkyl phosphates and the use of alkyl alkoxylates and alkyl glucosides in highly alkaline solutions the volume takes a practical approach throughout

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 physico 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

surfactants are vital components in biological systems are key ingredients in many formulated products and play an important role in many industrial processes the property which makes surfactants so useful is their ability to stabilize complex colloidal and interfacial systems it is not surprising therefore that many new surfactant materials are developed many of which have

novel properties however because their potential is not fully appreciated they remain underutilized by industry the main purpose of this book is to illustrate the utility of a range of novel surfactants in particular those which have been found useful in specific areas and which seem to offer promise across a wider range of applications the contributors are drawn from industry and academic research and provide a comprehensive account of the preparation properties and applications of these specialist surfactants research chemists in industry and academia will find this book a concise and authoritative account of this important group of surfactants

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 hunteren 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

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

since its creation in 1884 engineering index has covered virtually every major engineering innovation from around the world it serves as the historical record of virtually every major engineering innovation of the 20th century recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence the world s most comprehensive interdisciplinary engineering database engineering index contains over 10 7 million records each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings coverage spans over 175 engineering disciplines from over 80 countries updated weekly

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