

Nonionic Surfactants Alkyl Polyglucosides Surfactant Science

Nonionic Surfactants Alkyl Polyglucosides Alkyl Polyglycosides Handbook of Detergents, Part E Surfactants in Tribology, 2 Volume Set Surfactants in Tribology, Volume 2 Surfactants Specialist Surfactants Surfactant Science and Technology Alkyl Polyglycosides Industrial Applications of Surfactants IV Handbook of Applied Surface and Colloid Chemistry Mechanical Engineering and Materials Science Trends in Colloid and Interface Science XII Optimising Pesticide Applications Household & Personal Products Industry The Indian Textile Journal Design and Selection of Performance Surfactants Handbook of Surfactant Analysis Industrial Applications of Surfactants III Dieter Balzer Ivana Pantelic Karlheinz Hill Uri Zoller Girma Biresaw Girma Biresaw AEPSAT I.D. Robb Drew Myers RA. Aleksejczyk D R Karsa Krister Holmberg M.R. Xue European Colloid and Interface Society. Conference N. M. Western Sorabji M. Rutnagur David R. Karsa Dieter O. Hummel D. R. Karsa

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N. M. Western Sorabji M. Rutnagur David R. Karsa Dieter O. Hummel D. R. Karsa

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

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

surfactants play a critical role in tribology as they control friction wear and lubricant properties such as emulsification demulsification bioresistance oxidation resistance rust prevention and corrosion resistance the use of surfactants in tribology is a critical topic for scientists and engineers who are developing new materials and devi

the premier symposium on surfactants in tribology held in seoul in 2006 was an enormously successful event that generated a high level of interest in the topic leading to the publication of the first volume in this series in 2008 the tremendous response was echoed at the follow up symposium in berlin that same year and leading researchers man

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

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

alkyl polyglycosides a new class of nonionic surfactants meet the challenges of the agricultural industry by being biodegradable and effective their physical properties make them superior surfactants for many applications in a wide range of conditions alkyl polyglycosides have excellent aqueous solubility and are stable in the presence of high levels of electrolytes in addition they are non gelling and insensitive to temperature changes due to the lack of a cloud point these unique solubility properties coupled with their compatibility with anionic cationic and other nonionic surfactants make it easy to formulate concentrated

or dilute products alkyl polyglycoside surfactants are environmentally safe and have excellent toxicity and biodegradability profiles alkyl polyglycoside surfactants offer the agricultural industry a new biodegradable raw material with a broad range of properties and advantages

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

full text included in knovel library within the subject area of chemistry and chemical engineering

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 september 1997 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

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 flurosurfactants 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

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

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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