

Nonionic Surfactants Alkyl Polyglucosides

Surfactant Science

Nonionic Surfactants Alkyl Polyglucosides Alkyl Polyglycosides Handbook of Detergents, Part E Design and Selection of Performance Surfactants Novel Surfactants Surfactant Science and Technology Surfactants in Tribology, 2 Volume Set Surfactants in Tribology, Volume 2 Specialist Surfactants Surfactants Surfactants in Tribology, Volume 1 Surfactants in Consumer Products Applied Surfactants Sugar-Based Surfactants Preventing Photorespiration's Damaging Effects To Sports Turf Managing Reactive Oxygen Species In Sports Turf Industrial Applications I Surface Chemistry of Surfactants and Polymers Oilfield Chemistry and its Environmental Impact Dieter Balzer Ivana Pantelic Karlheinz Hill Uri Zoller David R. Karsa Krister Holmberg Drew Myers Girma Biresaw Girma Biresaw I.D. Robb Olasehinde Owoseni Girma Biresaw Jürgen Falbe Tharwat F. Tadros Cristóbal Carnero Ruiz Jeff Haag Jeff Haag Tharwat F. Tadros Bengt Kronberg Henry A. Craddock

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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

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

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

extensively revised and expanded this timely reference discusses the synthesis properties and potential applications of popular and emerging surfactant compounds and systems this reference reflects current research trends in green surfactants the production of surfactants using biotechnological methods and surfactants based on natural buildin

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

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

this book presents detailed fundamentals of surfactant systems and links these fundamentals to emerging perspectives in the field of surfactant science key topics include environmentally friendly surfactants ionic liquid based surfactants chemically enhanced oil recovery synergy of surfactants with clay minerals and reactions in microheterogeneous surfactant systems this book is an excellent resource for students researchers and industry professionals

surfactants play a variety of critical roles in tribology in addition to controlling friction and wear they also allow for control of a wide range of properties of lubricants such as emulsification demulsification bioresistance oxidation resistance and rust corrosion prevention this book explains recent advances in the role of surfactants wi

in to days market custom formulated surfactants are offered for a wide range of applications the need for surfactants in detergents cleaning agents cosmetics toiletries is second only to an expanding demand in industrial applications but even within the non industrial areas the demands have undergone significant changes in recent years for example washing and cleaning temperatures have substantially decreased with increased energy conservation attitudes and more stringent regulatory requirements in the area of ecology and toxicology are leading to new product profiles new manufacturing technologies and an increased utilization of natural raw materials also factor into this continuing evolution these changes and trends have been described in numerous publications however a summary and survey of these developments is currently missing the book presented here surfactants in consumer products is intended to close this gap the editor and authors dedicate this work to dr dr h c konrad henkel on the occasion of his 70th birthday dr henkel himself a scientist and industrialist contributed significantly to developments in the surfactant field in the nineteen fifties he initiated the change from soap based detergents to synthetic detergents within henkel at the same time dishwashing detergents utilizing various synthetic surfactants were also developed and became the basis for modern manual and mechanical dishwashing

while currently available titles either focus on the basics or on very specific subtopics this text meets the need for a comprehensive survey of surfactants and their properties with a strong emphasis on applications and their correlation to the fundamentals the author covers their classification physical properties phase behavior adsorption effects such as wetting spreading and adhesion as well as industrial applications in personal care and cosmetics pharmaceuticals agrochemicals and food products professor tadros is a well known expert on the topic of surfactants with much experience in colloid science here he uses his industrial experience to close the gap between fundamentals of surfactants and their relevance and applications in practice

touted as the new darling of the chemical industry alkyl polyglycosides are gaining in popularity due to the fact that they are readily biodegradable low toxic and made from renewable resources sugar based surfactants compiles the most recent and relevant aspects of sugar based surfactants including self association phase behavior and interfacial properties focusing on both colloidal and interfacial science the book deals with the adsorption of surfactants in both the air liquid and solid liquid interfaces it also covers new

advances in surfactant science such as the development of a family of potent surface active agents that are non toxic and thus usable in ubiquitous consumer products

rubp oxygenase carboxylase rubisco a key enzyme in photosynthesis is the molecular equivalent of a good friend with a bad habit in the process of carbon fixation rubisco incorporates carbon dioxide text CO_2 into an organic molecule during the first stage of the calvin cycle rubisco is so important to plants that it makes up 30 30 or more of the soluble protein in a typical plant leaf 11 but rubisco also has a major flaw instead of always using text CO_2 as a substrate it sometimes picks up text O_2 instead this side reaction initiates a pathway called photorespiration which rather than fixing carbon actually leads to the loss of already fixed carbon as text CO_2 photorespiration wastes energy and decreases sugar synthesis so when rubisco initiates this pathway it s committing a serious molecular faux pas

reactive oxygen species can have detrimental effects on sports turf this book describes the causes of reactive oxygen species its photosynthetic targets and nutrients and compounds that can manage and prevent them

volume 3 of the handbook of colloid and interface science is a survey into the applications of colloids in a variety of fields based on theories presented in volumes 1 and 2 the handbook provides a complete understanding of how colloids and interfaces can be applied in materials science chemical engineering and colloidal science it is ideally suited as reference work for research scientists universities and industries

this book gives the reader an introduction to the field of surfactants in solution as well as polymers in solution starting with an introduction to surfactants the book then discusses their environmental and health aspects chapter 3 looks at fundamental forces in surface and colloid chemistry chapter 4 covers self assembly and 5 phase diagrams chapter 6 reviews advanced self assembly while chapter 7 looks at complex behaviour chapters 8 to 10 cover polymer adsorption at solid surfaces polymers in solution and surface active polymers respectively chapters 11 and 12 discuss adsorption and surface and interfacial tension while chapters 13 16 deal with mixed surfactant systems chapter 17 18 and 19 address microemulsions colloidal stability and the rheology of polymer and surfactant solutions

wetting and wetting agents hydrophobization and hydrophobizing agents solid dispersions surfactant assemblies foaming emulsions and emulsifiers and microemulsions for soil and oil removal complete the coverage in chapters 20 25

consolidates the many different chemistries being employed to provide environmentally acceptable products through the upstream oil and gas industry this book discusses the development and application of green chemistry in the oil and gas exploration and production industry over the last 25 years bringing together the various chemistries that are utilised for creating suitable environmental products written by a highly respected consultant to the oil and gas industry it introduces readers to the principles and development of green chemistry in general and the regulatory framework specific to the oil and gas sector in the north sea area and elsewhere in the world it also explores economic drivers pertaining to the application of green chemistry in the sector topics covered in oilfield chemistry and its environmental impact include polymer chemistry surfactants and amphiphiles phosphorus chemistry inorganic salts low molecular weight organics silicon chemistry and green solvents it also looks at sustainability in an extractive industry examining the approaches used and the other methodologies that could be applied in the development of better chemistries along with discussions about where the application of green chemistry is leading in this industry sector provides the reader with a ready source of reference when considering what chemistries are appropriate for application to oilfield problems and looking for green chemistry solutions brings together the pertinent regulations which workers in the field will find useful alongside the chemistries which meet the regulatory requirements written by a well known specialist with a combined knowledge of chemistry manufacturing procedures and environmental issues oilfield chemistry and its environmental impact is an excellent book for oil and gas industry professionals as well as scientists academic researchers students and policy makers

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