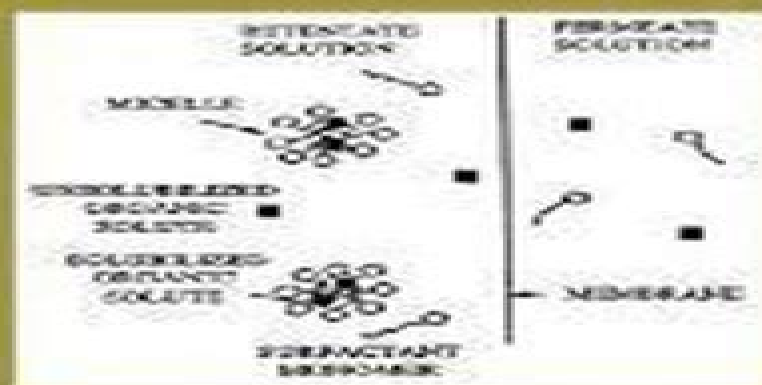


surfactant science series
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SOLUBILIZATION IN SURFACTANT AGGREGATES



edited by
Sherril D. Christian
John E. Scamehorn

Solubilization In Surfactant Aggregates

Ron Liu



Solubilization In Surfactant Aggregates:

Solubilization in Surfactant Aggregates Sherril D. Christian, John F. Scamehorn, 2020-08-26 This work covers topics ranging from fundamental studies of solubilization to practical technological applications of the phenomenon It reviews the solubilization of organic materials into surfactant aggregates including micelles vesicles and admicelles The book also details methods of measuring solubilization that utilize both classical and newer instrumental techniques It is intended for physical surface colloid and surfactant chemists chemical environmental and civil engineers and upper level undergraduate and graduate students in these disciplines *Adsorption and Aggregation of Surfactants in Solution* K.L. Mittal, Dinesh O.

Shah, 2002-11-07 Offering the latest research and developments in the understanding of surfactant behavior in solutions this reference investigates the role and dynamics of surfactants and their solution properties in the formulation of paints printing inks paper coatings pharmaceuticals personal care products cosmetics liquid detergents and lubricants Exploring the science behind techniques from oil recovery to drug delivery the book covers surfactant stabilized particles solid particles at liquid interfaces nanocapsules aggregation behavior of surfactants micellar catalysis vesicles and liposomes the clouding phenomena viscoelasticity of micellar solutions and more

Design and Applications of Self-Assembly Aggregates - From Micelles to Nanoemulsions Juan Mejuto, Mihalj Poša, 2024-10-23 Self assembled colloidal aggregates are made up of nano or micrometer sized particles dispersed in a continuous phase that organize into ordered structures due to intrinsic physical and chemical interactions like electrostatic forces hydrophobic hydrophilic interactions Van der Waals forces and hydrogen bonds These systems are stable and form a wide variety of structures including micelles vesicles liquid crystals and emulsions Their ability to create sophisticated materials makes them valuable in various fields including materials science pharmacology biotechnology medicine food technology and cosmetics Despite their advantages challenges remain in achieving precise control over the self assembly process Design and Applications of Self Assembly Aggregates From Micelles to Nanoemulsions is a collaborative effort by different authors exploring research on these microheterogeneous systems and their diverse applications Equations of State for Fluids and Fluid Mixtures J.V. Sengers, R.F. Kayser, C.J. Peters, H.J.

White, 2000-10-30 This book has been prepared under the auspices of Commission I 2 on Thermodynamics of the International Union of Pure and Applied Chemistry IUPAC The authors of the 18 chapters are all recognized experts in the field The book gives an up to date presentation of equations of state for fluids and fluid mixtures All principal approaches for developing equations of state are covered The theoretical basis and practical use of each type of equation is discussed and the strength and weaknesses of each is addressed Topics addressed include the virial equation of state cubic equations and generalized van der Waals equations perturbation theory integral equations corresponding states and mixing rules Special attention is also devoted to associating fluids polydisperse fluids polymer systems self assembled systems ionic fluids and fluids near critical points **Handbook of Surface and Colloid Chemistry** K. S. Birdi, 2008-11-20 The third edition of this

bestseller covers the latest advancements in this rapidly growing field Focusing on analyses and critical evaluation of the subject this new edition reviews the most up to date research available in the current literature International contributors offer their perspectives on various topics including micellar systems mi

Surfactants Bob Aveyard,2019-10-09

Surfactants today you have probably eaten some or rubbed others on your body Plants animals including you and microorganisms make them and many everyday products e g detergents cosmetics foodstuffs contain them Surfactant molecules have one part which is soluble in water and another which is not This gives surfactant molecules two valuable properties 1 they adsorb at surfaces e g of an oil droplet in water and 2 they stick together aggregate in water The aggregates micelles are able to dissolve materials not soluble in water alone and adsorbed surfactant layers at the surfaces of particles or say oil droplets in water stop the particles or drops sticking together This is why stable emulsions such as milk do not separate into layers This book treats the basic physical chemistry and physics underlying the behaviour of surfactant systems In this book you will first learn about some background material including hydrophobic hydration interfacial tension and capillarity Section I Discussion of surfactant adsorption at liquid fluid and solid liquid interfaces is given in Section II and includes thermodynamics of adsorption dynamic and rheological aspects of liquid interfaces and the direct characterisation of surfactant monolayers In Section III a description is given of surfactant aggregation to give micelles lyotropic liquid crystals microemulsions and Winsor systems There follows a discussion of surface forces and the way they confer stability on lyophobic colloids and thin liquid films Section IV Various dispersions stabilised by adsorbed surfactant or polymer including solid in liquid dispersions emulsions and foams are considered in Section V The wetting of solids and liquids is explored in Section VI Like surfactants small solid particles can adsorb at liquid fluid interfaces form monolayers and stabilise emulsions and foams Such behaviour is covered in Section VII It is assumed the reader has a knowledge of undergraduate physical chemistry particularly chemical thermodynamics and of simple physics Mathematics elementary algebra and calculus is kept at a level consistent with the straightforward derivation of many of the equations presented

Surfactant Formulation Engineering using HLD and NAC Edgar Acosta,Jeffrey Harwell,David A. Sabatini,2025-04-28

Surfactants are molecules that contain groups that are water loving hydrophilic and oil loving lipophilic The central question in formulations is often which of the two portions dominate the behavior of the surfactant For many years that question was answered in terms of the surfactant structure only However the modern view is that the hydrophilic lipophilic nature of the surfactant is the result of surfactant structure and formulation conditions nature of the oil temperature aqueous phase composition as captured by a semi empirical equation called the hydrophilic lipophilic difference HLD The HLD is a dimensionless number that indicate the approach to the point where the surfactant inverts its solubility from being water soluble negative HLD to oil soluble positive HLD The HLD alone is a good indicator of how the formulation could behave but it does not produce any formulation property that can be used to predict product performance The net average curvature NAC are a set of equations that take the

value of HLD to predict the properties of the formulation such as oil and or water solubilization capacity interfacial tension phase diagrams contact angle and others Surfactant Formulation Engineering using HLD and NAC will not only introduce the reader to HLD NAC but also to the practical use of these concepts in numerous applications ranging from application in the petroleum industry to environmental remediation to food cosmetic and pharmaceutical applications and even nanotechnology The last part of the book will look at the molecular origins of the empirical terms in HLD via the Integrated Free Energy Model IFEM Concentrates on the HLD and NAC providing industrially relevant examples Provides the only single depository for HLD parameters Balances theory and application with insights from both academic and industrial authors Includes examples relevant to a wide range of fields with practical guides on how to go from the formulation objective s to an actual formulation design

Structure-Performance Relationships in Surfactants Kunio Esumi, Minoru Ueno, 2003-03-18 In response to intensifying interest on surfactant research brought on by recent innovation Structure Performance Relationships in Surfactants Second Edition examines novel developments in our understanding of the properties and performance of surfactants at air liquid liquid liquid and solid liquid interfaces highlighting seven new chapters and carefully updated material to reflect current trends This edition presents new material on the adsorption of vesicle forming surfactants at the air water interface fluorinated surfactants having two hydrophobic chains surface active properties of telomer type surfactants having several hydrocarbon chains and the association behavior of amphiphilic dendritic polymers among many other topics

Mixed Surfactant Systems Masahiko Abe, 2004-12-22 Completely revised and expanded throughout Mixed Surfactant Systems Second Edition surveys the latest results newest experimental perspectives and theoretical investigations of properties behavior and techniques applicable to mixed surfactant systems This important book elucidates core theoretical notions while summarizing results of

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006

Polymer-Surfactant Systems J.C.T. Kwak, 2020-10-28 Chronicles recent advances in our knowledge of polymer surfactant systems combining authoritative reviews of new experimental methods instrumentation and applications with fundamental discussions of classical methodologies and surveys of specific properties

Molecular Interfacial Phenomena of Polymers and Biopolymers P Chen, 2005-07-22 This book combines three fundamental areas of interest to the science and engineering community these being material science nanotechnology and molecular engineering Although there have been various results published in this field there has yet to be a fully comprehensive review This book covers key research on molecular mechanisms and thermodynamic behaviour of bio polymer surfaces and interfaces from theoretical and experimental perspectives

Surfactant Science and Technology Drew Myers, 2020-06-16 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

Surface Chemistry of Surfactants and Polymers Bengt Kronberg, Krister Holmberg, Bjorn Lindman, 2014-09-26 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

Principles of Polymer Science and Technology in Cosmetics and Personal Care E. Desmond Goddard, James V. Gruber, 1999-03-10 Principles of Polymer Science and Technology in Cosmetics and Personal Care

Controlled Synthesis of Nanoparticles in Microheterogeneous Systems Vincenzo Turco Liveri, 2006-01-04 The first step in developing nanoscience and nanotechnology is the production of nanoparticles Controlled Synthesis of Nanoparticles in Microheterogeneous Systems contains descriptions of one of the most powerful bottom up methods of synthesizing size controlled and stable nanoparticles This method is based on the use of surfactant containing microheterogeneous systems liquid crystals monolayers and multilayers solutions of direct and reversed micelles direct and reversed vesicles and water in oil and oil in water microemulsions The author is prominent in the field of physico chemical characterization of microheterogeneous systems and their use as ideal solvent and reaction media for the production and long term storage of nanomaterials This is the first book that attempts to unify the knowledge necessary for judicious manipulation of surfactant based systems and a fine tuning of geometric and physico chemical properties of nanoparticles of a wide variety of substances Prof Turco Liveri has chosen to write an easy to read book aiming to be evocative rather than exhaustive Because of the intense interest in nanoscience and nanomaterials this book is an important fundamental work that fits ideally into the series Nanostructure Science and Technology and will be useful for a wide range of students and young researchers involved in the study and manipulation of matter at the atomic level

Handbook of Detergents, Part A Guy Broze, 1999-04-14 Part A of this handbook describes the raw materials and potential interactions of detergent products before during and after use focusing on the development and mechanisms of action of cleaning components The text presents the basic physiochemical concepts necessary to formulate new safer and more effective detergent products

Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers

with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con **Innovative Dosage Forms** Yogeshwar Bachhav,2019-08-20 Teaches future and current drug developers the latest innovations in drug formulation design and optimization This highly accessible practice oriented book examines current approaches in the development of drug formulations for preclinical and clinical studies including the use of functional excipients to enhance solubility and stability It covers oral intravenous topical and parenteral administration routes The book also discusses safety aspects of drugs and excipients as well as regulatory issues relevant to formulation Innovative Dosage Forms Design and Development at Early Stage starts with a look at the impact of the polymorphic form of drugs on the preformulation and formulation development It then offers readers reliable strategies for the formulation development of poorly soluble drugs The book also studies the role of reactive impurities from the excipients on the formulation shelf life preclinical formulation assessment of new chemical entities and regulatory aspects for formulation design Other chapters cover innovative formulations for special indications including oncology injectables delayed release and depot formulations accessing pharmacokinetics of various dosage forms physical characterization techniques to assess amorphous nature novel formulations for protein oral dosage and more Provides information that is essential for the drug development effort Presents the latest advances in the field and describes in detail innovative formulations such as nanosuspensions micelles and cocrystals Describes current approaches in early pre formulation to achieve the best in vivo results Addresses regulatory and safety aspects which are key considerations for pharmaceutical companies Includes case studies from recent drug development programs to illustrate the practical challenges of preformulation design Innovative Dosage Forms Design and Development at Early Stage provides valuable benefits to interdisciplinary drug discovery teams working in industry and academia and will appeal to medicinal chemists pharmaceutical chemists and pharmacologists

Water-Insoluble Drug Formulation Ron Liu,2008-01-18 Scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties particularly water insolubility Issues surrounding water insolubility can postpone or completely derail important new drug development Even much needed reformulation of currently marketed products can be significantly affected by these challenges Water Insolubility is the Primary Culprit in over 40% of New Drug Development Failures The most comprehensive resource on the topic this second edition of Water Insoluble Drug Formulation brings together a distinguished team of experts to provide the scientific background and step by step guidance needed to deal with solubility issues in drug development Twenty three chapters systematically describe solubility properties and their impact on formulation from theory to industrial practice With detailed discussion on how these properties contribute to solubilization and dissolution the text also features six brand new chapters on water insoluble drugs exploring regulatory aspects pharmacokinetic behavior early phase formulation strategies lipid based systems for oral delivery

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