



Surfactant Aggregation

E. Pramauro, E. Pelizzetti



Surfactant Aggregation:

Surfactant Aggregation J.H. Clint, 2012-12-06 Surface Active Agents surfactants are vital components in biological systems form key ingredients in consumer products and play an important role in many industrial processes For example cell membranes owe their structure to the aggregation of surfactants known as lipids which form a major component of the membrane Other natural surfactants occur in the digestive system in the lungs and even in such substances as crude oil Man made surfactants are used in a wide range of domestic and industrial products and processes In addition to detergents and personal care products surfactants have found uses in almost every branch of the chemical industry as well as in several other industries These include dyestuffs fibres mineral processing oil field chemicals paints pesticides pharmaceuticals and plastics Surfactants are versatile materials which are manufactured in a huge variety of forms to suit all of these applications As a result of their importance the technical literature on all aspects of surfactant behaviour is now very extensive Surprisingly however the treatment in textbooks has been somewhat fragmented often in the form of conference proceedings or edited multi authored works both lacking in continuity

Surfactant Aggregation John H. Clint, 1992 Surface active agents surfactants occur widely in nature being found in locations as different as the membranes of living cells and in crude oil Compounds in this class are surface active because of their amphiphilic nature A consequence of this is that they have a remarkable tendency to aggregate in a variety of forms whose exact structures depend on the state of solvency and on some simple but at times subtle geometric packing considerations

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

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

Gemini Surfactants Raoul Zana, Jiding Xia, 2003-10-07 Generating much interest in both academic and scientific circles Gemini Surfactants gathers the most up to date research in

gemi surfactant production and demonstrates how their properties and performance can revolutionize the current industrial application of these surfactants. It surveys the state of special gemini surfactants including nonionic zwitterionic fluorinated and amino acid based surfactants. Gemini Surfactants considers the synthesis phase behavior and rheology of gemini and related surfactants and clarifies the adsorption and surface tension behavior of gemini surfactants at air-water, oil-water and solid-water interfaces. The book also details the physicochemical properties and microstructure of aqueous micellar solutions of gemini surfactants and describes mixed micellization between gemini surfactants and conventional surfactants.

Specialist Surfactants I.D. Robb, 1996-12-31 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.

Adsorption and Nanostructures Imre Dekany, 2003-07-01 This volume focuses on adsorption of solutions on solid surfaces using different experimental methods. Preparation and characterization of nanoparticles, nanocomposites are an interesting theme for material scientists. The environmental aspects of adsorption and the properties of dispersions and microemulsions, surfactants, polymers, clay minerals are dealt with and a summary of the current results in interfacial phenomena and modern colloid science is given.

Surfactant Adsorption and Surface Solubilization Ravi Sharma, American Chemical Society, Meeting, 1995. Presents recent progress in the understanding of competitive adsorption. Describes adsorption and solubilization at the solid-liquid interface. Discusses kinetics of adsorption at liquid-liquid interfaces. Examines the structure of adsorbed layers.

Interfacial Processes and Molecular Aggregation of Surfactants Ranga Narayanan, 2008-09-25 Given the enormous interest in surface phenomena in areas ranging from materials science to applications in life science, this volume is a very timely addition to the literature. Emphasis is on surfactants mediating interfacial and molecular aggregation phenomena and the following topics are reviewed in particular: dissolution rates, equilibrium adsorption, mixing rules and spreading on a solid surface of surfactants, as well as the role of surfactants in mediating a range of processes such as the fabrication of various nanomaterials. Written and edited by leading experts, this volume is dedicated to Professor Dinesh O. Shah, one of the pioneers in this field.

Interfacial Properties of Petroleum Products Lilianna Z. Pillon, 2007-11-28 With mounting pressure to extract petroleum from oil sands and other unconventional sources, oil refineries must adapt their processing methods to handle

increasingly heavy crude oils Unlike traditional crude oils the properties of heavier crude oils include higher viscosity metal salt and acid content This causes their interfacial properties to deteriorate leading to problems such as sedimentation foaming emulsification rust and corrosion all of which make the manufacture transportation and storage of petroleum products more difficult **Interfacial Properties of Petroleum Products** examines conventional and non conventional processing techniques for crude oils and documents their effects on the composition and properties of petroleum products at the oil solid oil air oil water and oil metal interfaces Focusing on surface activity the author examines the undesirable effects of processes such as solvent extraction desalting dewaxing catalyst deactivation and hydroprocessing as well as trace element and water contamination With each process the author presents methods for improving interfacial properties including the use of surface active additives demulsifiers antifoaming agents and corrosion rust inhibitors A distinctive and up to date source of materials published together for the first time **Interfacial Properties of Petroleum Products** will help engineers design more cost effective and resource efficient processing methods for heavier crude oils based on the properties of the crude oil extracted

Lipid and Polymer-Lipid Systems T. Nylander, B. Lindman, 2003-07-01 The renewed and increasing interest in lipid self assembly phase behaviour and interfacial properties can be related to both a much improved insight in biological systems and the applications of lipids in food and pharmaceutical industry in the latter the development of drug delivery systems based on lipids has become in focus Amphiphilic systems comprise lipids surfactants as well as different types of polymers including block and graft copolymers Research on biological amphiphiles has often been conducted separate from research on synthetic ones However in recent years a very fruitful convergence between the two fields has evolved These new perspectives on fundamental research and applications of lipids are discussed in these proceedings from an international symposium on Lipid and Polymer Lipid systems October 2000 in Chia Laguna in Italy a joint undertaking of Prof Maura Monduzzi at Cagliari University Italy and Camurus Lipid Research Foundation Lund Sweden

Surface and Colloid Science Fernando Galembeck, 2004-12-08 This volume includes 58 contributions to the 11th International Conference on Surface and Colloid Science a highly successful conference sponsored by the International Association of Colloid and Interface Scientists and held in Iguassu Falls Brazil in September 2003 Topics covered are the following Biocolloids and Biological Applications Charged Particles and Interfaces Colloid Stability Colloidal Dispersions Environmental Colloidal Science Interfaces and Adsorption Nanostructures and Nanotechnology Self Assembly and Structured Fluids Surfactants and Polymers Technology and Applications Colloids and Surfaces in Oil Production Surface and colloid science has acquired great momentum during the past twenty years and this volume is a good display of new results and new directions in this important area

Surfactants in Solution K.L. Mittal, Björn Lindman, 1984 This volume chronicles the proceedings of the 8th International Symposium on Surfactants in Solution SIS held in Gainesville FL June 10 15 1990 This series of symposia have been smoothly running since 1976 but the appellation Surfactants in Solution was used for the first time in 1982 in Lund

Since then our logo SIS has become very familiar to everyone involved in surfactants In Lund the meeting was billed as the Fourth International Symposium on Surfactants in Solution Earlier three events were held under different rubrics but proceedings of all these symposia except the 7th SIS held in Ottawa in 1988 have been properly documented As a matter of fact so far 10 volumes have appeared under the title Surfactants in Solution 1 2 3 The program for the 9th SIS was very comprehensive and many ramifications of surfactants were covered and it was a veritable international event It contained a total of 384 papers by 869 authors from practically every corner of our planet Just the sheer number of papers is a testimonial to the high tempo of research and tremendous interest in this wonderful class of materials As in the past there were plenary lectures 5 invited talks 37 oral presentations 195 and poster presentations 147 The plenary lectures were given by Prof J Th G Overbeek Prof C A Bunton Prof H Ti Tien and Dr J Swalen The lecture by Prof Overbeek the doyen of surface and colloid science was a real treat

Surfactant-based Separations John F. Scamehorn, 2000 Because they are biodegradable and work well in low energy separations surfactants are an active area of interest in separations science This book covers surfactant based separations for the chemical and biochemical process industries and analytical chemistry It includes discussion of widely used processes and novel techniques such as surfactant enhanced ultrafiltration ground water and soil remediation surfactant absorption and flotation processes extraction processes recycling of paper and plastics using surfactant and analytical separations using surfactants

Surfactant Solutions Raoul Zana, 1987

Surfactants and Interfacial Phenomena Milton J. Rosen, 1989 The Second Edition has been updated to reflect recent advances in our knowledge of theory and practices New applications run the gamut from microelectronics and magnetic recording to biotechnology and nonconventional energy conversion There is a new chapter on the interactions between surfactants New sections have been added and original sections expanded on such topics as ultralow liquid liquid interfacial tension microemulsions miniemulsions and multiple emulsions liquid crystal formation hydrotrophy and steric forces in the stabilization of dispersions There is also new material on lime soap dispersing agents fabric softeners adsorption and wetting of solid surfaces both equilibrium and nonequilibrium the relationship between adsorption and micellation in aqueous solutions and its effect on surface tension reduction and factors determining micellar structure and shape

Surfactant Aggregation in DESs Rokaya Mohammed Mohammed Azaga, 2018

Mixed Surfactant Systems Paul M. Holland, 1992 Presents a broad survey of the properties behavior and modeling of mixed surfactant systems including mixed micellar solutions phenomena at interfaces phase behavior and mixtures with unusual surfactant types Covers chemical reactions in mixed micelles approaches to molecular modeling of mixed surfactant aggregates and new experimental techniques for studying mixed micelles and adsorption on surfaces Features contributions from leading specialists in colloid and surface science including Robert S Schechter John F Scamehorn Milton J Rosen Keizo Ogino and Denver G Hall

Cationic Surfactants Eric Jungermann, 1970

Surfactants in Analytical Chemistry E. Pramauro, E. Pelizzetti, 1996-08-09 Provided

here is a collective source of data covering the actual uses of amphiphilic organized media in analytical chemistry and an explanation of the mechanisms by which these systems exert their different functions in each analytical scheme The volume has been organized into two parts The first part consisting of three chapters describes the structural features and properties of amphiphilic aggregates and the analysis of the interactions between analytes and these assemblies Attention is focussed on the distribution and location of solutes within the different regions of the microheterogeneous media and on the observed effects on chemical equilibria kinetics and molecular properties of substrates The second part comprising five chapters centers on the applications of amphiphilic systems in specific analytical techniques such as spectroscopy chromatography electroanalysis etc The role of surfactant aggregates is examined in the light of existing theories and models and performances are compared with those obtained with traditional methods The potential interest of some recently developed surfactant based separations such as extractions with reversed micelles or micellar enhanced ultrafiltration in biotechnology and pollution control is also underlined Finally the need for new functionalized surfactants designed specifically for the novel analytical applications is considered e g the preparation of chelating micelles obtained from suitable amphiphilic ligands and their performances as extracting systems for metal ions are described Researchers working on the applications of surfactants in environmental chemistry and biotechnology and organic and physical chemists concerned with reactivity and synthesis in organized media will find this a valuable text

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