

Type of Surfactants



Non-ionic



Cationic



Anionic



Amphoteric



Non-ionic group



Hydrophobic group



Cationic head



Anionic head



Zwitterionic head

Surfactants In Solution

Paul M. Holland



Surfactants In Solution:

Surfactants in Solution K.L. Mittal, D.O. Shah, 2013-03-08 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

Surfactants in Solution K.L. Mittal, B. Lindman, 2013-11-11 This and its companion Volumes 2 and 3 document the proceedings of the 4th International Symposium on Surfactants in Solution held in Lund Sweden June 27-July 2 1982 This biennial event was christened as the 4th Symposium as this was a continuation of earlier conferences dealing with surfactants held in 1976 Albany under the title Micellization Solubilization and Microemulsions in 1978 Knoxville under the title Solution Chemistry of Surfactants and in 1980 Potsdam where it was dubbed as Solution Behavior of Surfactants Theoretical and Applied Aspects The proceedings of all these symposia have been properly chronicled The Lund Symposium was billed as Surfactants in Solution as both the aggregation and adsorption aspects of surfactants were covered and furthermore we were interested in a general title which could be used for future conferences in this series As these biennial events have become a well recognized forum for bringing together researchers with varied interests in the arena of surfactants so it is amply vindicated to continue these and the next meeting is planned for July 9-13 1984 in Bordeaux France under the cochairmanship of K L Mittal and P Bothorel The venue for 1986 is still open although India inter alia is a good possibility Apropos we would be delighted to entertain suggestions regarding where and when these biennial symposia should be held in the future and you may direct your response to Kk

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

Surfactants in Solution Arun K. Chattopadhyay, K.L. Mittal, 2020-08-26 Contains selected invited papers presented at the 10th International Symposium on Surfactants in Solution held in Caracas Venezuela The volume covers phase behaviour of monolayers contact angle hysteresis micellar relaxation micellar catalyzed reactions polymerization in microemulsions polymer surfactant complexation asphaltenes and more *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 **Solution Chemistry of Surfactants** K.L.

Mittal, 2012-12-06 The 52nd Colloid and Surface Science Symposium of the Division of Colloid and Surface Chemistry of the American Chemical Society was held in Knoxville TN June 12-14 1978 and one of its Sections was devoted to the topic of Solution Chemistry of Surfactants Although it was billed as the Section on Solution Chemistry of Surfactants but it was indeed a veritable international symposium on this topic as 51 papers by about 100 contributors from 12 countries were listed in the program The present volume and its companion volume 2 document the proceedings of the above mentioned Section on Solution Chemistry of Surfactants In 1976 there was held an international symposium on Micellization Solubilization and Microemulsions in Albany the proceedings of which have been chronicled in two volumes A great deal of material dealing with micelles contributed by a legion of prominent researchers constitutes these volumes but a few subtopics were not adequately covered so it was deemed appropriate to cover these topics as well as the recent progress in the general area of aggregation of surfactants in this Section Also as it is the amphiphilicity or amphipathicity of a surfactant molecule which is responsible for both adsorption at interfaces and aggregation in solution so it was considered quite apropos to include the topic of adsorption at interfaces in this Section Concomitantly the present volumes not only cover the aggregation phenomena but also the adsorption at interfaces **Surfactants** R. Aveyard, Bob Aveyard, 2019 Surfactants are

in everyday products such as detergents foodstuffs and cosmetics Their molecules have one part which is water soluble and another which is not This gives them two valuable properties they adsorb at surfaces and they stick together in water This book treats the physical chemistry and physics underlying surfactants Adsorption of Polymers and Surfactants from

Solution Onto the Solid-liquid Interface Alexander Couzis, 1992 **Organized Solutions** Stig Friberg, 1992-07-21 Written by top international experts in colloid and surface chemistry Contains close to 750 literature references and nearly 400 useful

figures equations and tables **Microstructure and Phase Behavior of Surfactants in Solution** Zuchen Lin,1993

Solvent Properties of Surfactant Solutions Kōzō Shinoda,1967 Surfactants and Interfacial Phenomena Milton J. Rosen,2004-09-21 This book is the premier text on the properties and applications of surfactants The third edition is completely updated and revised including new information on gemini surfactants a new type of powerful surfactant superspreading or superwetting by aqueous surfactant solutions of highly hydrophobic surfaces important in agricultural applications and dynamic surface tension an important interfacial property not covered in the first two editions Clearly explains the mechanisms by which surfactants operate in interfacial processes Uses a minimum of mathematics in explanation of topics making it easy to understand and very user friendly Problems are included at the end of each chapter Includes many tables of data as reference that are not compiled elsewhere Milton J Rosen is an expert in the field of Surfactant research

Solution Behavior of Surfactants K.L. Mittal,E.J. Fendler,2011-11-03 This and its companion Volume 1 comprise the proceedings of the International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects organized under the auspices of the 11th Northeast Regional Meeting of the American Chemical Society held in Potsdam N Y June 30 July 3 1980 This Symposium presented the third event in the series of symposia dealing with the topic of surfactants in solution The first Symposium was held in Albany N Y in 1976 under the title Micellization Solubilization and Microemulsions the proceedings of which have been documented in a two volume set The second was held under the title Solution Chemistry of Surfactants in 1978 in Knoxville TN and the proceedings of this event have also been properly chronicled Apropos the fourth biennial Symposium in this series is entitled International Symposium on Surfactants in Solution K L Mittal and B Lindman Cochairmen and is scheduled to be held from June 27 to July 2 1982 in Lund Sweden Since these biennial events have been very successful and important in bringing researchers with varied interests together and in stimulating interdisciplinary communication so the plans are to continue these on a regular basis with a change in venue for each meeting *Surfactants and Detergents* Ashim Dutta,2022-09-28

Surfactants are ubiquitous and have applications in diverse areas including food cosmetics detergents lubricants enhanced oil recovery EOR and targeted drug delivery systems Their wide diversity of applications owes to their unique structure namely a hydrophilic and a hydrophobic group present in the same molecule Although most surfactants used industrially are synthetic there is a growing need for natural surfactants as the latter is obtainable from renewable sources and are less toxic and highly biodegradable in contrast to their synthetic counterparts This book is a compilation of interesting articles by various experts that cover various applications of both synthetic and natural surfactants

Solution Chemistry of Surfactants K.L. Mittal,2012-11-23 The 52nd Colloid and Surface Science Symposium of the Division of Colloid and Surface Chemistry of the American Chemical Society was held in Knoxville TN June 12-14 1978 and one of its Sections was devoted to the topic of Solution Chemistry of Surfactants Although it was billed as the Section on Solution Chemistry of Surfactants but it was indeed a veritable international symposium on

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Surfactant-based Sensors in Chemical and Biochemical Detection J G Manjunatha, 2023-10-11 Describing the importance of surfactants in electrochemical investigations related to biologically and environmentally vital chemicals this book charts the progression of highly responsive electrochemical sensors using surfactants as a modifying agent in the sensor field It provides contributed chapters from respected researchers on information concerning the activity of target molecules and electron transfer kinetics arising at the surface of the fabricated sensor materials Surfactant based electrochemical sensors are of great interest in the quest to find low cost fast and highly responsive sensing devices and one aim of this book is to help improve the competence and knowledge in this newly emerging interdisciplinary research area Attracting an audience of students academics industrialists and engineers it will interest researchers seeking to use non toxic sensors in their detection challenges

NAPL Removal Surfactants, Foams, and Microemulsions C. H. Ward, 2016-04-19 Complete and quantitative NAPL Removal Surfactants Foams and Microemulsions belongs to a ten monograph series that records the results of the Department of Defense Advanced Applied Technology Demonstration Facility environmental technology demonstrations It presents the outcome of field demonstrations of innovative in situ remediation technology

Turbulent Drag Reduction by Surfactant Additives Feng-Chen Li, Bo Yu, Jin-Jia Wei, Yasuo Kawaguchi, 2012-01-10 Turbulent drag reduction by additives has long been a hot research topic This phenomenon is inherently associated with multifold expertise Solutions of drag reducing additives are usually viscoelastic fluids having complicated rheological properties Exploring the characteristics of drag reduced turbulent flows calls for uniquely designed experimental and numerical simulation techniques and elaborate theoretical considerations Pertinently understanding the turbulent drag reduction mechanism necessities mastering the fundamentals of turbulence and establishing a proper relationship between turbulence and the rheological properties induced by additives Promoting the applications of the drag reduction phenomenon requires the knowledge from different fields such as chemical engineering mechanical engineering municipal engineering and so on This book gives a thorough elucidation of the turbulence characteristics and rheological behaviors theories special techniques and application

issues for drag reducing flows by surfactant additives based on the state of the art of scientific research results through the latest experimental studies numerical simulations and theoretical analyses Covers turbulent drag reduction heat transfer reduction complex rheology and the real world applications of drag reduction Introduces advanced testing techniques such as PIV LDA and their applications in current experiments illustrated with multiple diagrams and equations Real world examples of the topic s increasingly important industrial applications enable readers to implement cost and energy saving measures Explains the tools before presenting the research results to give readers coverage of the subject from both theoretical and experimental viewpoints Consolidates interdisciplinary information on turbulent drag reduction by additives Turbulent Drag Reduction by Surfactant Additives is geared for researchers graduate students and engineers in the fields of Fluid Mechanics Mechanical Engineering Turbulence Chemical Engineering Municipal Engineering Researchers and practitioners involved in the fields of Flow Control Chemistry Computational Fluid Dynamics Experimental Fluid Dynamics and Rheology will also find this book to be a much needed reference on the topic **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

Water-Insoluble Drug Formulation Ron Liu,2018-03-12 Properties and Formulation From Theory to Real World Application 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 the much needed reformulation of currently marketed products can be significantly affected by these challenges More recently it was reported that the percentage increased to 90% for the candidates of new chemical entities in the discovery stage and 75% for compounds under development In the most comprehensive resource on the topic this third 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 the detailed discussion on solubility theories solubility prediction models the aspects of preformulation biopharmaceutics pharmacokinetics regulatory and discovery support of water insoluble drugs to various techniques used in developing delivery systems for water insoluble drugs This book includes more than 15 water insoluble drug delivery systems or technologies illustrated with case studies and featuring oral and parenteral applications Highlighting the most current information and data available this seminal volume reflects the significant progress that has been made in nearly all aspects of this field The aim of this book is to provide a handy reference for

pharmaceutical scientists in the handling of formulation issues related to water insoluble drugs In addition this book may be useful to pharmacy and chemistry undergraduate students and pharmaceutical and biopharmaceutical graduate students to enhance their knowledge in the techniques of drug solubilization and dissolution enhancement

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