

SURFACTANTS AND POLYMERS IN AQUEOUS SOLUTION

2nd edition



**K. Holmberg
B. Jönsson
B. Kronberg
B. Lindman**

Surfactants And Polymers In Aqueous Solution

Martin Malmsten

Surfactants And Polymers In Aqueous Solution:

Surfactants and Polymers in Aqueous Solution Bo Jönsson, Björn Lindman, Krister Holmberg, Bengt Kronberg, 2000-01-24 A unique book which discusses the solution chemistry of surfactants and polymers presenting both the theory of surfactant and polymer interactions and also giving practical help for workers in this area. Surfactants are used together with polymers in a wide range of applications such as detergents, paints, paper coatings, food, pharmacy and cosmetics. Together the surfactant and polymer provide the stability, rheology, etc. needed for specific application. Hence the need for knowledge about physicochemical properties of both surfactants and polymers and polymer-surfactant interactions to enhance formulation work. This book, based on successful courses run by the authors, brings the two topics together to enable readers to gain a good understanding of the solution behaviour of surfactant-polymer combinations. It includes a thorough description of surfactant types including their main synthetic routes and discusses physicochemical phenomena such as self assembly, adsorption, gel formation and foaming. Particular attention is paid to the solution behaviour of surfactants and polymers containing polyoxyethylene chains. Surface active polymers are then presented and their interaction with surfactants is a core topic of the book. The choice of surfactant for emulsions and microemulsions is treated in depth and important applications of microemulsions such as detergency and enhanced oil recovery are presented. This book will be invaluable for scientists and engineers involved in surfactant production and formulation as well as students.

Surfactants

and Polymers in Aqueous Solution Krister Holmberg, Bo Jönsson, Bengt Kronberg, Björn Lindman, 2002-11-22 Many industrial formulations such as detergents, paints, foodstuff and cosmetics contain both surfactants and polymers and their interaction govern many of the properties. This book is unique in that it discusses the solution chemistry of both surfactants and polymers and also the interactions between the two. The book, which is based on successful courses given by the authors since 1992, is a revised and extended version of the first edition that became a market success with six reprints since 1998. Surfactants and Polymers in Aqueous Solution is broad in scope, providing both theoretical insights and practical help for those active in the area. This book contains a thorough discussion of surfactant types and gives information of main routes of preparation. A chapter on novel surfactants has been included in the new edition. Physicochemical phenomena such as self assembly in solution, adsorption, gel formation and foaming are discussed in detail. Particular attention is paid to the solution behaviour of surfactants and polymers containing polyoxyethylene chains. Surface active polymers are presented and their interaction with surfactants is a core topic of the book. Protein-surfactant interaction is also important and a new chapter deals with this issue. Microemulsions are treated in depth and several important applications such as detergency and their use as media for chemical reactions are presented. Emulsions and the choice of emulsifier is discussed in some detail. The new edition also contains chapters on rheology and wetting. Surfactants and Polymers in Aqueous Solution is aimed at those dealing with surface chemistry research at universities and with surfactant formulation in industry.

Surfactants and

Polymers in Aqueous Solution Holmberg,2002 **Interactions of Surfactants with Polymers and Proteins** E. Desmond Goddard,2018-01-18 Interactions of Surfactants with Polymers and Proteins covers work done in this area over the last 30 years and examines in detail the physico chemical microstructural and applications aspects of interactions of surfactants with polymers and proteins in bulk surfaces and at interfaces The physical chemistry of individual components surfactants polymers and proteins is discussed and extensive coverage of interactions of surfactants with uncharged oppositely charged and hydrophobe modified polymers is provided Other topics addressed include water soluble and insoluble keratinous proteins the principles and applications of fluorescence spectroscopy the physical properties and microstructural aspects of polymer protein surfactant complexes and implications of surfactant interactions with polymers and proteins in practical systems Interactions of Surfactants with Polymers and Proteins provides a wealth of information for chemists involved in a number of different research areas including cosmetics pharmaceutics foods paints pigments lubrication ceramics minerals materials processing and biological systems Interactions of surfactants with polymers and proteins Errol Desmond Goddard,Kavssery P. Ananthapadmanabhan,1992 Interactions of Surfactants with Polymers and Proteins covers work done in this area over the last 30 years and examines in detail the physico chemical microstructural and applications aspects of interactions of surfactants with polymers and proteins in bulk surfaces and at interfaces The physical chemistry of individual components surfactants polymers and proteins is discussed and extensive coverage of interactions of surfactants with uncharged oppositely charged and hydrophobe modified polymers is provided Other topics addressed include water soluble and insoluble keratinous proteins the principles and applications of fluorescence spectroscopy the physical properties and microstructural aspects of polymer protein surfactant complexes and implications of surfactant interactions with polymers and proteins in practical systems Interactions of Surfactants with Polymers and Proteins provides a wealth of information for chemists involved in a number of different research areas including cosmetics pharmaceutics foods paints pigments lubrication ceramics minerals materials processing and biological systems Aqueous Polymer — Cositute Systems Dan F. Anghel,2003-04-01 This collection of formulas has been written by applied scientists and industrial engineers for design professionals and students who work in engineering acoustics It is subdivided into the most important fields of applied acoustics each dealing with a well defined type of problem It provides easy and rapid access to profound and comprehensive information In order to keep the text as concise as possible the derivation of a formula is described only as far as necessary for its understanding The interested reader can refer to the original source of the result In addition to formulas useful principles and computational procedures are given **Handbook of Surface and Colloid Chemistry** K. S. Birdi,2015-06-25 This new edition of the Handbook of Surface and Colloid Chemistry informs you of significant recent developments in the field It highlights new applications and provides revised insight on surface and colloid chemistry s growing role in industrial innovations The contributors to each chapter are internationally recognized experts Several

chapter **Surfactants and Polymers in Drug Delivery** Martin Malmsten,2002-07-22 This reference features the latest findings surrounding the physicochemical aspects of surfactant and polymer systems to facilitate the design and understanding of novel and advanced drug delivery formulations It covers the basics of surfactant and polymer surface activity and self assembly the various types of structures formed by such compounds 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 Solution Behavior of Surfactants K.L. Mittal,E.J. Fendler,2012-12-06 This and its companion Volume 2 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 re 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 1 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 **Surfactant Science and Technology** Drew Myers,2005-10-28 A general introduction to surfactants surface activity and surfactant applications Important advances in the tools available for studying the activity of surfactants has significantly increased scientific understanding of interfaces at the molecular level However there is still much to be learned In this Third Edition of the successful classic author and expert Drew Myers combines the latest information available in the field of surfactants with his original accessible text on the subject Now fully updated to reflect recent developments in working with surfactants in both model and practical systems the Third Edition of Surfactant Science and Technology provides a solid introduction to the field of surfactant science Written especially for beginners and nonspecialists who would like a practical but not necessarily comprehensive knowledge of the field this clear cogent text conveys the most fundamental and useful concepts of surfactant action and application New chapters bring readers up to date on current biological and medical applications of surfactants as well as applications in food science cosmetics and other areas In addition to new chapters Surfactant Science and Technology includes illustrative problems at the end of each chapter These problems explain concepts discussed and stimulate imaginative solutions on the part of the reader A helpful bibliography of supplementary resources for readers who desire more detail has also been included Surfactant Science and

Technology Third Edition is an invaluable resource for surface and polymer chemists chemical and industrial engineers and a wide range of chemistry students **Research in Materials** ,1994 **Standard Handbook of Petroleum and Natural Gas Engineering: Volume 2** William C. Lyons,1996-10-16 Volume 2 presents the industry standards and practices for reservoir engineering and production engineering It also looks at all aspects of petroleum economics and shows how to estimate oil and gas reserves **Indian Journal of Chemistry** ,1999 **CATIONIC HYDROXYETHYL CELLULOSE POLYMERS IN AQUEOUS SOLUTIONS** Poornima Dixit,2009 Mixtures of polymers and surfactants are widely used in aqueous media to provide structure solubilization domains and or colloidal stability Underlying these functions are inter and intramolecular interactions that depend on the nature of the polymers and the type of surfactants We have investigated here the phase behavior of cationic Hydroxyethyl cellulose in aqueous media upon addition of oppositely charged surfactants sodium dodecyl sulfate SDS or Standapol ES2 The solution behavior and interactions between the polyelectrolyte and the surfactant can be profoundly affected by the polyelectrolyte charge density and hydrophobic modification as well as by the presence in water or polar organic solvents co solvents **Research in Materials** Massachusetts Institute of Technology,1994 *Photothermal Spectroscopy Methods* Stephen E. Bialkowski,Nelson G.C. Astrath,Mikhail A. Proskurnin,2019-03-21 Covers the advantages of using photothermal spectroscopy over conventional absorption spectroscopy including facilitating extremely sensitive measurements and non destructive analysis This unique guide to the application and theory of photothermal spectroscopy has been newly revised and updated to include new methods and applications and expands on applications to chemical analysis and material science The book covers the subject from the ground up lists all practical considerations needed to obtain accurate results and provides a working knowledge of the various methods in use Photothermal Spectroscopy Methods Second Edition includes the latest methods of solid state and materials analysis and describes new chemical analysis procedures and apparatuses in the analytical chemistry sections It offers a detailed look at the optics physical principles of heat transfer and signal analysis Information in the temperature change and optical elements in homogeneous samples and photothermal spectroscopy in homogeneous samples has been updated with a better description of diffraction effects and calculations Chapters on analytical measurement and data processing and analytical applications are also updated and include new information on modern applications and photothermal microscopy Finally the Photothermal Spectroscopy of Heterogeneous Sample chapter has been expanded to incorporate new methods for materials analysis New edition updates and expands on applications to chemical analysis and materials science including new methods of solid state and materials analysis Includes new chemical analysis procedures and apparatuses Provides an unmatched resource that develops a consistent mathematical basis for signal description consolidates previous theories and provides invaluable insight into laser technology Photothermal Spectroscopy Methods Second Edition will appeal to researchers from both academia and industry graduate students postdocs research scientists

and professors in the general field of analytical chemistry optics and materials science and researchers and engineers at scientific instrument developers in fields related to photonics and spectroscopy **Surfactants and Sequestrants** Sidney Gutcho,1977 **Surfactants in Polymers, Coatings, Inks, and Adhesives** David R. Karsa,2020-01-16 Surface active agents are used as process aids in the production of polymers as additives to impart or modify polymer properties and in the formulation and further processing of polymeric systems for a variety of applications In all these uses the surfactants are used as effect chemicals to impart specific performance characteristics or properties to the base polymer or to enhance its performance when formulated for a specific end use This volume focuses on those surfactant areas incorporating the greatest number of supplier and user companies Authors have been selected from leading industrial and academic laboratories around the world It provides an introduction to the underlying chemistry and technology in these industrial areas and at the same time highlights important recent developments Surfactants in Polymers Coatings Inks and Adhesives is a book for surfactant researchers and for manufacturers and users of surfactants In particular surfactant chemists analytical chemists environmental chemists users of surfactant formulations in the fields of specialty chemicals polymers and detergents and health and safety personnel Polymers in Aqueous Media J. Edward Glass,American Chemical Society. Division of Polymeric Materials: Science and Engineering,1989 This volume is the first systematic review of surfactant modified water soluble polymers The authors representing leaders in their fields offer practical information about associative thickeners and polymer surfactants including spectroscopic and rheological analysis of these water soluble polymers in aqueous solutions In addition aqueous gels of varying chemical types are studied with respect to their properties in numerous applications Among the topics covered are aqueous gels surfactant modified water soluble polymers polyelectrolyte synthesis elongational viscosity and fluorescence phenomena of water soluble polymers

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