

Volume 1

# Solution Chemistry of Surfactants

K.L. Mittal



Springer

# Solution Chemistry Of Surfactants

**K. L. Mittal, Eleanor J. Fendler**



## **Solution Chemistry Of Surfactants:**

**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

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Surface Science and Technology and Indian Institute of Technology Delhi As this symposium was a landmark it represented the tenth anniversary of this series of symposia so it is very apropos to reflect on how these symposia have evolved to their present size and status The pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held Actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986 For historical purposes it should be recorded here that the first symposium was held in Albany NY under the title Micellization Solubilization and Microemulsions the second symposium was christened Solution Chemistry of Surfactants and was held in Knoxville TN in 1978 the venue for the third symposium in 1980 was Potsdam NY and it was dubbed International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects **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 **Surfactants in Solution** K.L. Mittal, P. Bothorel, 2012-12-06 This and its companion Volumes 5 and 6 document the proceedings of the 5th International Symposium on Surfactants in Solution held in Bordeaux France July 9-13 1984 This symposium was the continuation of the series of symposia initiated in 1976 in Albany New York under the title Micellization Solubilization and Microemulsions The next two symposia were labelled Solution Chemistry of Surfactants and Solution Behavior of Surfactants Theoretical and Applied Aspects held in Knoxville TN in 1978 and Potsdam NY in 1980 respectively In 1982 at the time of the 4th Symposium in this series it became amply evident that there was a definite need to have more a generic title to describe these biennial events and after much deliberation it was decided that an appropriate title would be Surfactants in Solution as both the aggregation and adsorption aspects of surfactants were addressed So the 4th Symposium was held in 1982 in Lund Sweden under this new rubric and it was decided to continue these symposia in the future under this appellation Naturally the Bordeaux

Symposium was dubbed as the 5th International Symposium on Surfactants in Solution and our logo became SIS which is very apropos and appealing It was in Bordeaux that the decision was made to hold the 6th SIS Symposium in New Delhi and it is scheduled for August 18 22 1986 in the capital of India      **Surfactants in Solution** K.L. Mittal,2012-12-06 This and its companion volumes 8 9 and 10 document the proceedings of the 6th International Symposium on Surfactants in Solution SIS held in New Delhi India August 18 22 1986 under the joint auspices of the Indian Society for Surface Science and Technology and Indian Institute of Technology Delhi As this symposium was a landmark it represented the tenth anniversary of this series of symposia so it is very apropos to reflect on how these symposia have evolved to their present size and status The pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held Actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986 For historical purposes it should be recorded here that the first symposium was held in Albany NY under the title Micellization Solubilization and Microemulsions the second symposium was christened Solution Chemistry of Surfactants and was held in Knoxville TN in 1978 the venue for the third symposium in 1980 was Potsdam NY and it was dubbed International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects      *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      **Solution Chemistry** P. Somasundaran,Dianzuo Wang,2006-11-13 Surfactants have been used for many industrial processes such as flotation enhanced oil recovery soil remediation and cleansing Flotation technology itself has been used in industry since the end of the 19th century and even today it is an important method for mineral processing and its application range is expanding to other areas This technology has been used in the treatment of wastewater industrial waste materials separation and recycling of municipal waste and some unit processes of chemical engineering The efficiency of all these operations depends primarily on the interactions among surfactants solids and media In this book the fundamentals of solution chemistry of mineral surfactant systems are discussed as well as the important calculations involved The influence of relevant physico chemical conditions are also presented in detail Introduces the fundamentals of solution chemistry of mineral surfactant systems and important calculations involved Discusses the influence of relevant physico chemical conditions Presents the relationship between the molecular structure of the flotation reagents of solution chemistry and its characteristics      Surfactants in Solution K.L. Mittal,P. Botherel,2012-12-06 This and its companion Volumes 4 and 5 document the proceedings of the 5th International Symposium on Surfactants in Solution held in Bordeaux France July 9 13 1984 This symposium was the continuation of the series of symposia initiated in 1976 in Albany New York under the title icellization Solubilization and icroemulsions The next two symposia were labelled Solution

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Surfactants Theoretical and Applied Aspects

**Solution Behavior of Surfactants** K. L. Mittal, Eleanor J. Fendler, 1982

This symposium represented the third event in the series of symposia dealing with the topic of surfactants in solution. In this symposium a number of ramifications of surfactants were covered. It should be added that both aggregation and adsorption of surfactants were covered and the applications of surfactants were given due cognizance. A number of speakers were specifically asked to provide state of the art overviews of certain topics and those were augmented by unpublished original research contributions.

**Surfactants and Polymers in Aqueous Solution** Bo Jönsson, Björn Lindman, Krister Holmberg, Bengt Kronberg, 1998-03-20. 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 governs 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 application 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

**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 represented 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

**Solution Chemistry of Surfactants** K.L. Mittal, 1979-08-31 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 1 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

**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 K L Mittal, B Lindman, 2014-01-15

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