

surfactant science series
volume **73**

ANIONIC SURFACTANTS

Analytical Chemistry

Second Edition, Revised and Expanded



edited by
John Cross

 **CRC Press**
Taylor & Francis Group

Surfactants In Analytical Chemistry

Léo Pomar



Surfactants In Analytical Chemistry:

Anionic Surfactants John Cross,1998-05-15 Presents the most comprehensive coverage available of the detection isolation identification and estimation of all anionic surfactants in a wide variety of samples in trace and macro quantities Features new chapters on volumetric and trace analysis molecular and mass spectroscopy and chromatographic processes

Surfactants in Analytical Chemistry Edmondo Pramauro,E. Pelezetti,1996-01-01 Hardbound 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 th Surfactants in Analytical Chemistry Pramauro, Edmondo Pramauro,E. Pelezetti,1996 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

Comprehensive Analytical Chemistry Cecil Leeburn Wilson,David Woodburn Wilson,2008 Anionic Surfactants John Cross,1977 **Analysis and Fate of Surfactants in the Aquatic Environment** Thomas P. Knepper,Pim de Voogt,Damia

Barcelo,2003-08-22 An understanding of the fate and behaviour of organic chemicals such as surfactants in the environment is a prerequisite for the sustainable development of human health and ecosystems As surfactants are being produced in huge amounts it is important to have a detailed knowledge about their lifetime in the environment their biodegradability in wastewater treatment plants and in natural waters and their ecotoxicity Parameters relevant for the assessment of long term behaviour such as interactions with hormonal systems need to be understood to avoid unexpected adverse effects to future generations of people and the environment However the identification and quantification of commercial surfactants in the environment is made more complicated and cumbersome because they comprise of tens to hundreds of homologues oligomers and isomers of anionic nonionic cationic and amphoteric compounds The EU funded PRISTINE project Priority surfactants and their toxic metabolites in wastewater effluents An integrated study ENV4 CT97 0494 provides the basis for the content of this title It provides policy makers and industry with detailed information on analysis and concentrations of surfactants and their degradation products in the environment In addition to a general introduction to surfactants this book comprises a comprehensive variety of analytical techniques including sample handling for the analysis of surfactants in the aquatic environment Readers will find all the necessary information for analyzing the different groups of surfactants with special emphasis on transformation products Quality assurance is also reported on in detail Chapters on toxicity and risk assessment are also included and give a complete perspective on the surfactants problem in the aquatic environment Presents the finding of EU funded research into fate and behaviour of organic chemicals in the environment Comprises a comprehensive variety of analytical techniques including sample handling for the analysis of surfactants in the aquatic environment Provides relevant information to all groups working in the field of surfactants *Analysis of Surfactants, Second Edition* Thomas M. Schmitt,2001-01-23 In the tradition of the popular first edition *Analysis of Surfactants Second Edition* offers a comprehensive and practical account of analysis methods for determining and understanding commercially important surfactants individually and in compounds Combining a complete review of the literature with a variety of evaluation procedures and the specifications for commercial products this useful reference explores the key stages and latest developments for surfactant applications This edition has been thoroughly expanded and features new sections on capillary electrophoresis ether carboxylates and ester quats It is also more globally accessible with foreign language citations and SI units Containing over 2400 references drawings tables and equations *Analysis of Surfactants Second Edition* is an recommended reference for physical surface colloid and oil chemists analytical research and quality assurance chemists working in the soap and detergent pharmaceuticals and cosmetic industries regulatory and food scientists and upper level undergraduate and graduate students in these disciplines **Anionic Surfactants - Analytical Chemistry (revised and expanded)**. Cross J Ed,1998 *Handbook of Surfactant Analysis* Dieter O. Hummel,2000-04-07 *Handbook of Surfactant Analysis* Chemical physico chemical and physical methods is a translation of the successful German book *Analyse der Tenside*

and incorporates the leading chemical physio chemical and physical methods of surfactant analysis with special emphasis on infrared spectroscopy Since the first edition of Analyse der Tenside 1962 no other book has come close to dealing exclusively with the many analytical methods for this important group of substances The scope of this book is broad with coverage not only of analytical data but also of important data relevant to the industrial production and uses of various classes of compounds The fundamental principles and applications of modern spectroscopic and electroanalytical techniques now playing an increasingly important role as routine methods in analytical practice are also described The book is richly and informatively illustrated and includes a comprehensive and up to date bibliography Chapter topics include Structural characteristics and classifications of surfactants Sample preparation isolation and characterisation of surfactants Detection of interfacially active ions Controlled decomposition Separation of mixtures of surfactants Methods of quantitative analysis of surfactants Spectrometry and electrometry Other physical and physico chemical methods

Introduction to Surfactant Analysis

D.C. Cullum, 2012-12-06 The analysis of surfactants presents many problems to the analyst This book has been written by an experienced team of surfactant analysts to give practical help in this difficult field Readers will find the accessible text and clear description of methods along with extensive references an invaluable aid in their work

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Surfactants In Analytical Chemistry Introduction

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