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Emulsions Tharwat F. Tadros, 2016-03-21 Chapter 1 General Introduction Definition of emulsions and the role of the emulsifier Classification based on the nature of the emulsifier Classification based on the structure of the system General instability problems with emulsions creaming sedimentation flocculation Ostwald ripening coalescence and phase inversion Importance of emulsions in various industrial applications Chapter 2 Thermodynamics of Emulsion Formation and Breakdown Application of the second law of thermodynamics for emulsion formation Balance of energy and entropy and non spontaneous formation of emulsions Breakdown of the emulsion by flocculation and coalescence in the absence of an emulsifier Role of the emulsifier in preventing flocculation and coalescence by creating an energy barrier resulting from the repulsive energies between the droplets Chapter 3 Interaction Forces between Emulsion Droplets Van der Waals attraction and its dependence on droplet size Hamaker constant and separation distance between the droplets Electrostatic repulsion resulting from the presence of electrical double layers and its dependence on surface or zeta potential and electrolyte concentration and valency Combination of the van der Waals attraction with double layer repulsion and the theory of colloid stability Steric repulsion resulting from the presence of adsorbed non ionic surfactants and polymers Combination of van der Waals attraction with steric repulsion and the theory of steric stabilisation Chapter 4 Adsorption of Surfactants at the Oil Water Interface Thermodynamic analysis of surfactant adsorption and the Gibbs adsorption isotherm Calculation of the amount of surfactant adsorption and area per surfactant molecule at the interface Experimental techniques for measuring the interfacial tension Chapter 5 Mechanism of Emulsification and the Role of the Emulsifier Description of the factors responsible for droplet deformation and its break up Role of surfactant in preventing coalescence during emulsification Definition of the Gibbs dilational elasticity and the Marangoni effect in preventing coalescence Chapter 6 Methods of Emulsification Pipe flow static mixers and high speed stirrers rotor stator mixer Laminar and turbulent flow Membrane emulsification High pressure homogenisers and ultrasonic methods Chapter 7 Selection of Emulsifiers The hydrophilic lipophilic balance HLB and its application in surfactant selection Calculation of HLB numbers and the effect of the nature of the oil phase The phase inversion temperature PIT method for emulsifier selection The cohesive energy ratio method for emulsifier selection Chapter 8 Creaming Sedimentation of Emulsions and its prevention Driving force for creaming sedimentation effect of gravity droplet size and density difference between the oil and continuous phase Calculation of the rate of creaming sedimentation in dilute emulsions Influence of increase of the volume fraction of the disperse phase on the rate of creaming sedimentation Reduction of creaming sedimentation Balance of the density of the two phases reduction of droplet size and effect of addition of thickeners Chapter 9 Flocculation of Emulsions and its Prevention Factors affecting flocculation Calculation of fast and slow flocculation rate Definition of stability ratio and its dependence on electrolyte concentration and valency Definition of the critical coagulation concentration and its dependence on electrolyte valency

Reduction of flocculation by enhancing the repulsive forces Chapter 10 Ostwald Ripening and its Reduction Factors responsible for Ostwald ripening difference in solubility between small and large droplets and the Kelvin equation Calculation of the rate of Ostwald ripening Reduction of Ostwald ripening by incorporation of a small amount of highly insoluble oil Reduction of Ostwald ripening by the use of strongly adsorbed polymeric surfactant and enhancement of the Gibbs elasticity Chapter 11 Emulsion Coalescence and its Prevention Driving force for emulsion coalescence Thinning and disruption of the liquid film between the droplets The concept of disjoining pressure for prevention of coalescence Methods for reduction or elimination of coalescence Use of mixed surfactant films use of lamellar liquid crystalline phases and use of polymeric surfactants Chapter 12 Phase Inversion and its Prevention Distinction between catastrophic and transient phase inversion Influence of the disperse volume fraction and surfactant HLB number Explanation of the factors responsible for phase inversion Chapter 13 Characterisation of Emulsions Measurement of droplet size distribution Optical microscopy and image analysis Phase contrast and polarising microscopy Diffraction methods Confocal laser microscopy Back scattering methods Chapter 14 Industrial Application of Emulsions 14 1 Application in Pharmacy 14 2 Application in Cosmetics 14 3 Application in Agrochemicals 14 4 Application in Paints 14 5 Application in the Oil Industry The Interstate Commcerce Act United States.1961 Rheology Essentials of Cosmetic and Food Emulsions Rüdiger Brummer, 2006-05-27 Cosmetic emulsions exist today in many forms for a wide variety of applications including face and hand creams for normal dry or oily skin body milks and lotions as well as sun block products Keeping track of them and their properties is not always easy despite informative product names or partial names e g hand or face cream that clearly indicate their use and properties This practical manual provides a detailed overview that describes the key properties and explains how to measure them using modern techniques Written by an expert in flows and flow properties it focuses on the application of rheological flow measurements to cosmetic and food emulsions and the correlation of these results with findings from other tests Beginning with a brief history of rheology and some fundamental principles the manual describes in detail the use of modern viscometers and rheometers including concise explanations of the different available instruments But the focus remains on practical everyday lab procedures how to characterize cosmetic and food emulsions with different rheological tests such as temperature time stress and strain both static and dynamic Also the critical topic of how the results correlate with other important product characteristics for instance skin sensation pumping performance stability etc is carefully explored Many pictures illustrations graphs and tables help readers new to the measurement of cosmetic emulsions in their daily work as well as to the more experienced who seek additional special tips and tricks

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Table of Contents 21960573

- 1. Understanding the eBook 21960573
 - ∘ The Rise of Digital Reading 21960573
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 21960573
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 21960573
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 21960573
 - Personalized Recommendations
 - 21960573 User Reviews and Ratings
 - ∘ 21960573 and Bestseller Lists
- 5. Accessing 21960573 Free and Paid eBooks
 - 21960573 Public Domain eBooks

- ∘ 21960573 eBook Subscription Services
- 21960573 Budget-Friendly Options
- 6. Navigating 21960573 eBook Formats
 - o ePub, PDF, MOBI, and More
 - 21960573 Compatibility with Devices
 - ∘ 21960573 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 21960573
 - Highlighting and Note-Taking 21960573
 - ∘ Interactive Elements 21960573
- 8. Staying Engaged with 21960573
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 21960573
- 9. Balancing eBooks and Physical Books 21960573
 - Benefits of a Digital Library
 - ∘ Creating a Diverse Reading Collection 21960573
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 21960573
 - Setting Reading Goals 21960573
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 21960573
 - Fact-Checking eBook Content of 21960573
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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