



Katrin Zwirglmaier

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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

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