

List of Tables

Table	Title	Page
2.1	Emulsion globule size correlations	29
2.2	Comparative overview of phenol extraction into emulsion liquid membranes as studied by different investigators.	44
3.1	Specifications of cone spindles and shear rates.	81
3.2	Beer's law constant for phenols	85
3.3	AAS parameter for Copper and Nickel.	86
4.1	Effect of emulsion composition on specific gravity of emulsions	95
4.2	Effect of ϕ on Viscosity η at different shear rates, ($C_{10}=0$)	96
4.3	Effect of ϕ on η for emulsions containing NaOH in internal phase, ($C_{10}=0.3M$)	98
4.4	Effect of C_{10} on η at different values of ϕ .	100
4.5	Power law and Bingham parameters for extracting Emulsions	101
4.6	Effect of ϕ and C_{10} on interfacial tension (σ)	102
4.7	Prediction of emulsion globule sizes.	120
4.8	Distribution Coefficients of phenols between Kerosene and water	123
4.9	Effective diffusivities of phenols in ELMs.	124
4.10	Effect of various parameters on emulsion swelling.	187
4.11	Effect of parametric variations on emulsion breakage.	189
5.1	Power law and Bingham parameters for emulsions containing carriers	210
5.2	Swelling of water in oil emulsions with acid in internal phase	240