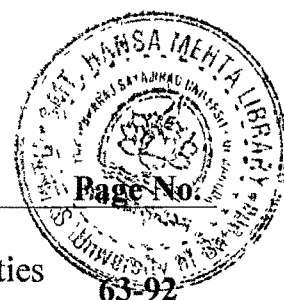


CONTENTS



	Title	Page No.
Chapter I	Introduction	1-62
1.1	Surfactants	1
1.2	Classification of surfactants	3
1.3	Micelles	7
1.4	Critical micelle concentration (cmc)	12
1.4.1	Factors affecting critical micelle concentration	13
1.4.1 (a)	Surfactant structure	13
1.4.1 (b)	Additives	15
1.4.1 (c)	Temperature	18
1.4.1 (d)	Pressure	19
1.5	Solubility-temperature relationship	20
1.6	Thermodynamics of micellization	22
1.6.1	Phase separation model	23
1.6.2	Mass action model	24
1.7	Adsorption at interfaces	29
1.8	Thermodynamics of adsorption	32
1.9	Mixed surfactant systems	34
1.10	Cloud point and performance properties	42
1.11	Ion selective electrodes	44
1.12	Polyoxyethylene alkyl ethers and α -sulfonato palmitic acid methyl esters	44
1.13	Scope of the present work	47
1.14	References	49



Title

Chapter II	Interfacial, Thermodynamic and Performance Properties of α -Sulfonato Myristic Acid Methyl Ester – Hexaoxyethylene Monododecyl Ether Mixed Surfactants	63-92
Chapter III	α -Sulfonato Palmitic Acid Methyl Ester– Hexaoxyethylene Monododecyl Ether Mixed Surfactant System: Interfacial, Thermodynamic, and Performance Property Study	93-123
Chapter IV	Physicochemical properties of anionic-nonionic surfactant mixture: α -sulfonato myristic acid methyl ester (MES) – nonaoxyethylene monododecyl ether ($C_{12}E_9$)	124-144
Chapter V	Physico-chemical properties of aqueous α -sulfonato palmitic acid methyl ester - nonaoxyethylene monododecyl ether surfactant mixture	145-169
Chapter VI A	Study of the cloud point of $C_{12}E_n$ nonionic surfactants: effect of additives	170-183
Chapter VI B	Membrane Electrode Sensitive to a Cationic Surfactant in Aquo-Organic Media	184-195
Chapter VII	Summary	196-204
	Appendix	I-XXIII
	Reprints	