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Micellization and interfacial behavior of binary and ternary mixtures in aqueous medium

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Abstract

The surface and micellization behavior of binary and ternary mixtures of cetylpyridinium chloride (CPC), sodium dodecyl sulfate (SDS) and polyethylene glycol hexadecyl ether (BRIJ-56) in different mole fractions have been studied in detail by surface tension measurement. The critical micelle concentration (CMC), activity coefficients, mutual interaction parameters, interfacial adsorption, minimum area per molecule, and energetic parameters for binary and ternary systems have been determined. Here we used the Clint, Rubingh and Rubingh-Holland models to analyze the results. (C) 2016 Elsevier B.V. All rights reserved.

Keywords

Author Keywords: Mixed micelles; Ternary systems; Binary systems; Interaction parameters; Synergism

KeyWords Plus: SODIUM DODECYL-SULFATE; DRUG PROMAZINE HYDROCHLORIDE; BENZOIC-ACID DERIVATIVES; MIXED MICELLE FORMATION; AMPHIPHILIC DRUG; NONIONIC SURFACTANT; PHARMACEUTICAL EXCIPIENTS; CONVENTIONAL SURFACTANTS; CATIONIC SURFACTANTS; THEORETICAL APPROACH

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