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Partial phase diagram and micellar properties of Tetracaine hydrochloride from thermal conductivity measurements

C. Zelmat, T. Fergoug, Y. Bouhadda, F. Chater and A. Belfedal

Laboratoire de Chimie physique des biomolécules et interfaces biologiques, Université de Mascara, Mascara 29000, Algeria

lpcmib@univ-mascara.dz

Abstract. Solubilisation and micelle formation of tetracaine-hydrochloride (TC,HCl) in aqueous solution has been studied by thermal conductivity. Parameters such as the critical micelle concentration, *cmc*, Kraft temperature, T_K , and the change of solubility with temperature were investigated. A partial phase diagram of Tetracaine hydrochloride in water was also explored and micellization process discussed.

Keywords: Conductivity; tetracaine-hydrochloride (TC,HCl); Kraft temperature; Phase diagram