

A Novel Method to Determinate Aggregation Number in Micelles from ITC Experiment

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A simple method is proposed in order to calculate the aggregation number around the critical micelle concentration, cmc, using only isothermal titration calorimetry, ITC, measurements. This method uses the same experimental information that the typical experiments for determination of cmc and enthalpy of demicellization, but it also provides the equilibrium constant for the micellization process. Moreover, we also propose a correction to calculate enthalpy of demicellization in this sort of experiment. Two series of CmEn and n-glucopyranoside surfactants were used to test the equations proposed.