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Effect of Sodium Chloride on Physicochemical Properties of bis-(2-ethyl hexyl) sodium sulfosuccinate (AOT) in Aqueous Medium

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Abstract - The surface tension for aqueous solution of AOT with/without NaCl have been measured at 288, 293 and 298 K. These data have been utilized for calculation of CMC, maximum surface excess concentration (G_{max}) and minimum area per molecule (A_{min}) of the surfactant at airliquid interface. Thermodynamic parameters of micellization and adsorption have been evaluated from CMC data. The micellization process is exothermic while adsorption is endothermic in nature.