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Thermodynamic and Micellar Studies on the Carboxylates of Strontium and Barium

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ABSTRACT

The investigations on the conductance of the solutions of Strontium and Barium carboxylates in a mixture of 70% chloroform and 30% Propylene glycol (v/v) have been made at different temperature in order to determine the CMC, dissociation constant, Molar Conductance and Thermodynamic parameters for dissociation and association Process. The results Shown that the CMC of these carboxylates decreases with increasing temperature. The values of enthalpy, free energy and entropy changes confirm the exothermic nature of dissociation process and the decrease in free energy for association process shows that the micellization in favored over dissociation process.

Keywords: Metal carboxylates, conductivity, micellization CMC value.
