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Studies on Conductometric Investigation of Iron (III) Octanoate in Benzene-butan-1-ol Mixture

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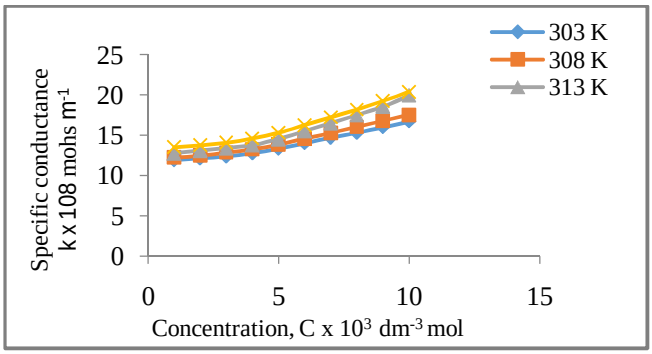
ABSTRACT

The conductometic measurements of the solutions of the iron (III) octanoate in benzene-butan-1–ol mixture (1:1 v/v) were carried out at different temperature (303K, 308K, 313K and 318K). The investigation of dissociation and association can be satisfactorily explained in the light of phase separation model by the conductivity measurements and the results shows that the association process is dominant over dissociation process. The results showed that the soap-soap interactions are weaker that soap-solvent interactions in dilute solutions and soap molecules do not aggregate below the critical micelle concentration in dilute solutions.

Graphical Abstract



Specific conductance (k), Vs Concentration (C), Solvent: Benzene-Butan-1-ol (1:1 v/v) mixture.

Keywords: Iron (III) octanoate, Conductivity, C.M.C.