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Acoustical Studies on Lithium Laurate in Benzene-Methanol Mixture

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ABSTRACT

Ultrasonic velocity of Lithium laurate has been measured in non-aqueous solvent i.e. 60/40 Benzene-methanol (v/v) mixture at different temperatures (25 and 30°C). The acoustical parameters are discussed in light of different theories of propagation of ultrasonic waves. The effects of soap concentration and temperature on ultrasonic velocity and various acoustic parameters such as adiabatic and molar compressibility, molar sound velocity, salvation number, relative association, relaxation strength and other acoustic parameters have been studied. The results confirm that there is a significant interaction between soap and solvent molecules.

Graphical Abstract

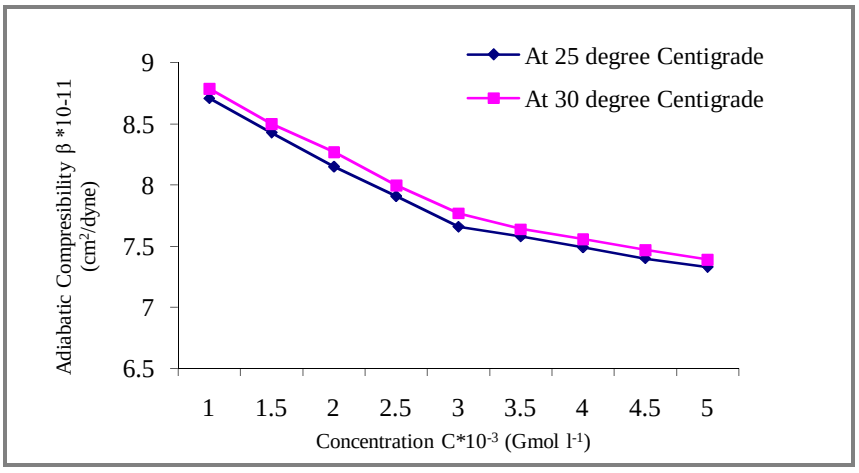

Figure 2. Adiabatic compressibility Vs Concentration of Lithium Laurate in a mixture of 60/40 benzene methanol (v/v).

Keywords: Lithium laurate, Acoustic parameters, Ultrasonic velocity.