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Ultrasonic Velocity and other allied parameters of Dysprosium laurate and myristate

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ABSTRACT

Ultrasonic measurement of Dysprosium Laurate and Myristate in methanol have been used to determine the critical micelle concentration (CMC), soap-solvent interaction and various acoustic parameters of the system. The value of CMC increases with increase chain length of fatty acids. The results show that the soap molecules do not aggregate appreciably below CMC: there is a significant interaction between soap and solvent molecule in dilute solution. The results of ultrasonic measurements have also been explained in terms of well known equation.

Keywords: Ultrasonic velocity, Dysprosium carboxylates, and CMC values.