



Acoustical Studies of Aqueous Solution of D(+)-Galactose at Different Temperature

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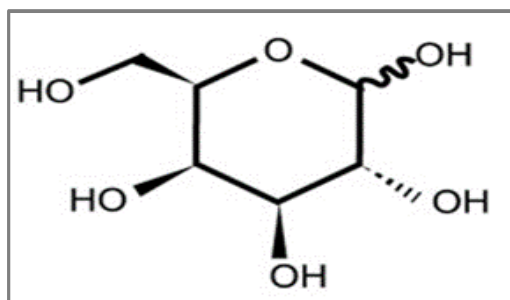
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ABSTRACT

The present ultrasonic investigation deals with behavior and intermolecular interaction of D(+)-Galactose (monosaccharide) in aqueous medium. Density (ρ), viscosity (η) and ultrasonic velocity (U) of solution has been measured at different temperature with different concentration. By using experimental values, acoustic parameter such as acoustic Impedance (Z), adiabatic compressibility (β_{ad}), relaxation time (τ), classical absorption (α/f^2), apparent molal compressibility (ϕ_k), apparent molal volume (ϕ_v), relative Association (R_A), surface Tension (σ), have been evaluated. The results have been discussed in terms of evaluated acoustical parameters.

Graphical Abstract



D(+)-Galactose.

Keywords: Molecular interactions, Ultrasonic velocity, Adiabatic compressibility, Surface tension.