

Acoustical Studies of Schiff Bases in 1,4-dioxane and Dimethylformamide at 308.15 K

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摘要:

Density, viscosity and ultrasonic velocity of solutions of four Schiff bases in 1,4-dioxane and dimethylformamide (DMF) were measured at 308.15 K. Various acoustical properties such as specific impedance (Z), adiabatic compressibility (κ_s), Rao's molar sound function (Rm), the van der Waals constant (b), molar compressibility (W), intermolecular free length (Lf), relaxation strength(r), solvation number(Sn), were calculated. The results are interpreted in terms of molecular interactions occurring in the solutions.

关键词: Density Viscosity Ultrasonic velocity Schiff bases 1,4-dioxane Dimethylformamide

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