

# Ultrasonic Studies of Substituted Aryl Bisthiourea in Binary Solution at 298K Temperature

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**Abstract:** *The ultrasonic velocity ( $u$ ), density ( $\rho$ ) and viscosity ( $\eta$ ) have been measured for substituted aryl Bisthiourea in binary solution at 298K temperature by using ultrasonic interferometric technique. The observed experimental data have been used to study molecular interactions in different percent composition of 1,4 dioxane and water binary solution for different parameters such as adiabatic compressibility, apparent molar volume, apparent molar compressibility, relative association, acoustic impedance, free length, and relaxation time.*

**Keywords:** Substituted aryl bisthiourea, Binary solution, Ultrasonic velocity, Viscosity, Density, Acoustic parameters.

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