

# An Insight into the Physico-Acoustical Properties of Biologically Active heterocycles: Chalcones in Different Solvents at Various Temperatures

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**Abstract:** *The density, viscosity and ultrasonic velocity have been measured for synthesized (2E)-3-(4-Chlorophenyl)-1-(4-fluorophenyl) propenone (FCC) in DMF, THF and CHCl<sub>3</sub> solutions of various concentrations at 300.15K with a view to understand the molecular interactions in these solutions. The experimental data have been used to calculate various acoustical parameters, which are interpreted in terms of solute-solute and solute-solvent interactions in different solvents.*

**Keywords:** FCC, Density, Viscosity, Ultrasonic Velocity, DMF, THF, CHCl<sub>3</sub>, Acoustical Parameters.

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