

Synthesis and Study of Anti-fungal Activity of 2- Mercapto Substituted Pyrimidine Using Thermodynamic Parameter by Ultrasonic Technique

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ABSTRACT :-

In the recent year,propagation of ultrasonic waves,through the solution is useful to study some physical ,thermodynamic parameter which are needed in the medicinal application.

The paper described the synthesis of 2-Mercapto substituted pyrimidine and its physio-chemical behaviour. The interaction between molecules in the solution of 2-Mercapto substituted pyrimidine can be analysed by ultrasonic interoferometer at 1MHz frequency at room temperature. The Velocity and density were calculated and it is used to evaluate the adiabatic compressibility at different concentrations. The adiabatic compressibility increases with decrease in the concentration of solution. The higher value of adiabatic compressibility, lower the activity against fungus.

KEYWORDS:-2-Mercapto pyrimidine, Interferometer, Adiabatic compressibility.