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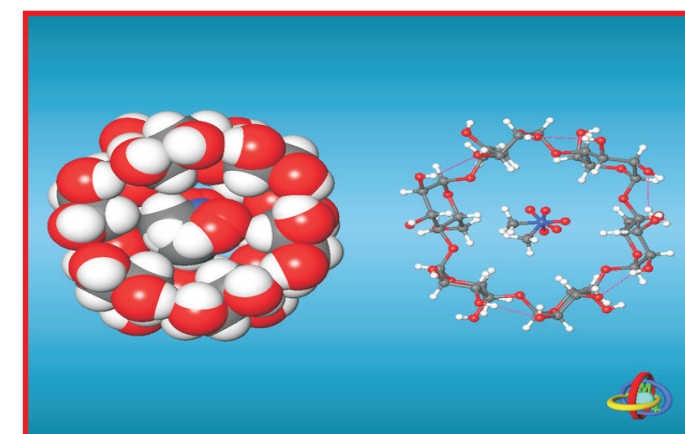
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STUDY OF MOLECULAR INTERACTIONS IN BINARY MIXTURES USING EXCESS PARAMETERS



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ABSTRACT:

Speeds of sound, densities and viscosities of the binary mixture of anisaldehyde with nonanol were measured over the entire mole fraction at (303.15, 308.15, 313.15 and 318.15) K and normal atmospheric pressure. Excess molar volume, V_m^E , Excess internal pressure, π^E , excess enthalpy, H^E , excess Gibbs free energy of activation for viscous flow, G^*E , and excess viscosity, η^E have been calculated using experimental data.

Abstract Report: The Title Accurately Said The Study was About.

INTRODUCTION:

The study of molecular interactions has been a subject of extensive investigations by dielectrics¹, NMR², IR³, Raman⁴ and ultrasonic absorption^{5,6}. The ultrasonic studies require less amount of sample when compared to other and gives more accurate results. The study of thermodynamic and acoustic properties of pure liquids, liquid mixtures and solutions have wide applications in chemical, leather, textile, pharmaceutical and many others⁷.

Introduction Report: This Article Include Full Introduction, Methods, Results & Introduction Section.

METHODS & MATERIALS:

The analytical grade chemicals obtained from Merck were used. They were purified by standard procedure⁸. The purity of samples was checked by density and viscosity measurements⁹. To prepare the mixtures in the required proportions, Job's method of continuous variation was used. The mixtures were preserved in well-stoppered conical flasks. After mixing the liquids, the flasks were left undisturbed to allow them to attain thermal equilibrium.

Methods & Materials Report: Tables/Boxes/Diagram & Images are Used to Explain Specific Points or Background Information. Figures That The Plotted Parameters are Clearly Mentioned.

RESULT:

2 to 5, the π , H , G and η values are observed to be positive and negative i.e., they are not varying regularly. At lower mole fractions they are negative and at higher mole fractions they are positive. The negative values of these excess functions may be due to the dominant of dispersive forces, particularly for the systems having different molecular sizes¹¹. For all the above parameters the same trends of observed for all the temperatures studied.

Result Report: Figures are Imported to Provide Explanation for Background Information. Conclusion of This Paper Clearly Supported Results.

CONCLUSION:

The experimental data of speeds of sound, densities and viscosities were measured over the entire composition range at different temperatures. These data have been used to calculate the excess properties of the systems. The results shows that the excess molar volume values were positive and remaining excess parameters are observed to be positive and negative. It is also observed that the values of excess properties are dependent on temperature.

Conclusion Report: The Text is Rounded off with a Conclusion that Discusses the Implication of The Findings & Ideas Discussed & Their Impact on Future Research Direction.

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- Grunwald E., Coburn W.C, J American Chem Soc, 80(1958) 1322.
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Reference Report: There are Places where the Author Narendra Kolla Need to Cite a Reference, but Have Not

SUMMARY OF ARTICLE

	Very High	High	Average	Low	Very Low
1. Interest of the topic to the readers	✓				
2. Originally & Novelty of the ideas		✓			
3. Importance of the proposed ideas	✓				
4. Timelines		✓			
5. Sufficient information to support the assertions made & conclusion drawn					
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4. 3rd July 2014 3rd International Conference on Civil Engineering and Materials (ICCEM 2014) (<http://www.iccem.org/>)
5. 1st to 3rd August 2014 3rd Chaos, Complexity and Leadership (<http://www.iccls.org>)
6. 2nd to 3rd September 2014 2014 2nd International Conference on Aviation Engineering and Management - ICAEM2014 (<http://icaem.org/>)