

Supplementary Information

Ultrasonic study for the molecular interactions of the ternary liquid mixture of *p*-anisaldehyde (4-methoxy benzaldehyde) with dimethylamine (N-methylmethanamine) and *n*-hexane at various temperatures

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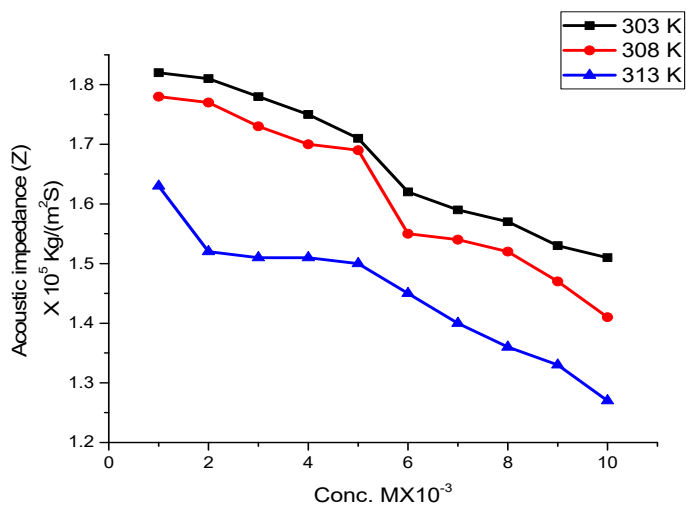
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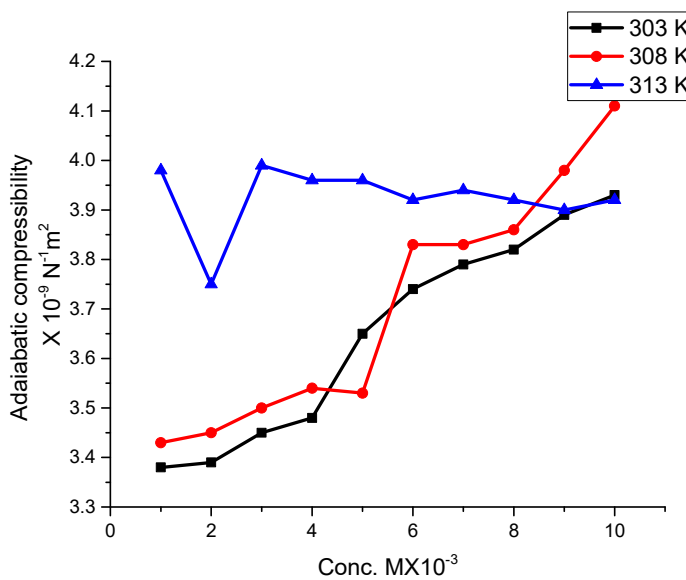
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Fig. S1 – Plot between Conc. and acoustic impedance for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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Fig. S2 – Plot between Conc. and adiabatic compressibility for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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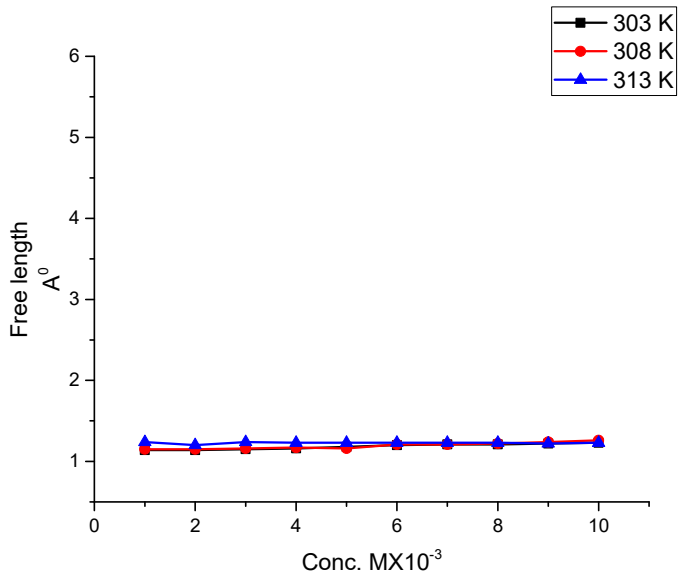


Fig. S3 – Plot between Conc. and free length for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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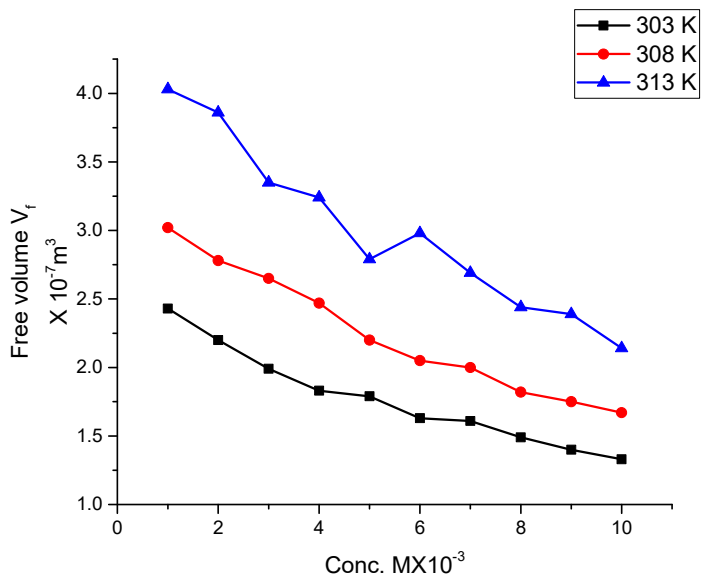
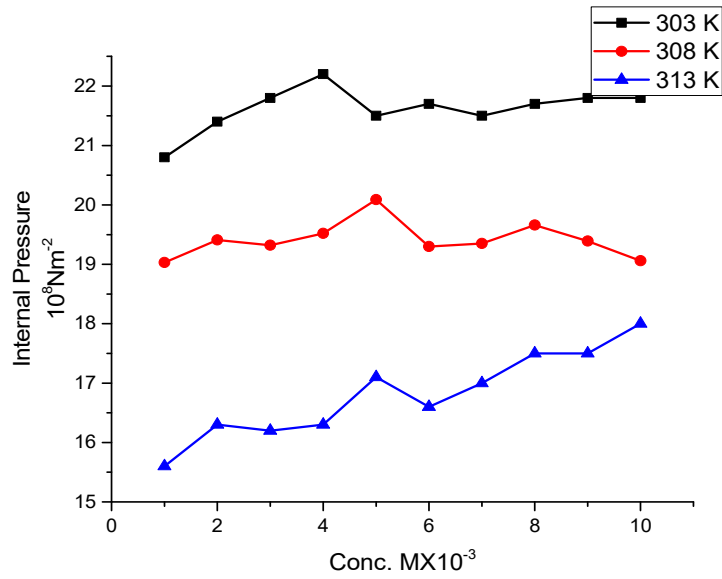


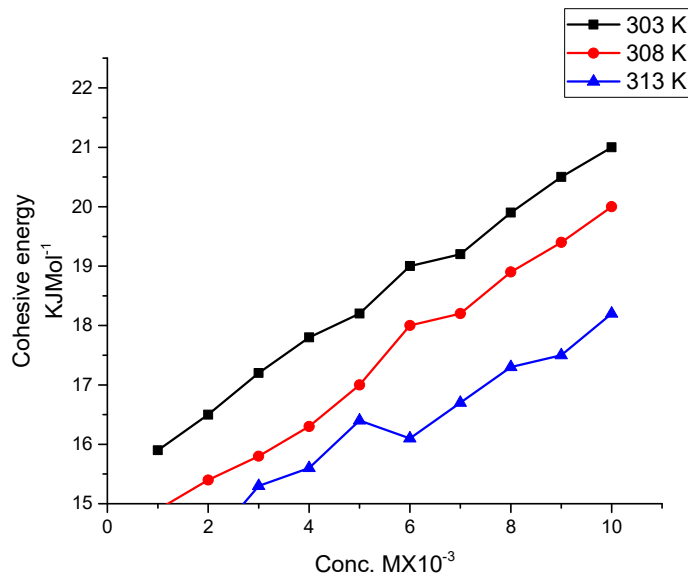
Fig. S4 – Plot between Conc. and free volume for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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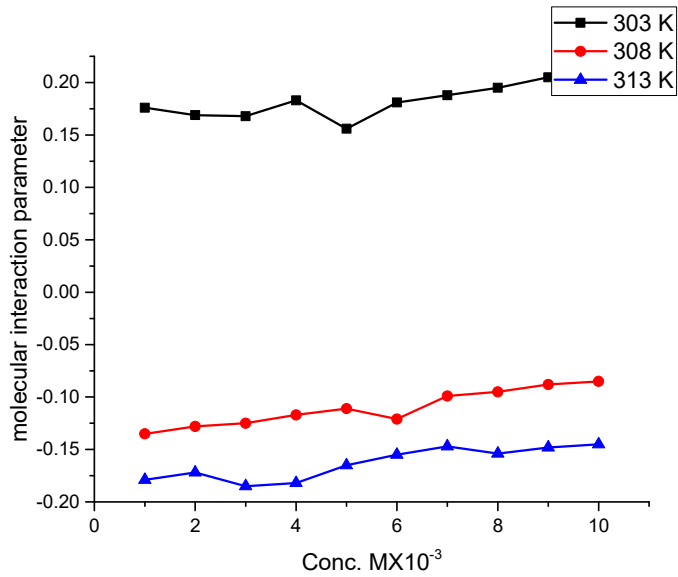
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Fig. S5 – Plot between Conc. and internal pressure for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.



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Fig. S6 – Plot between Conc. and cohesive energy for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

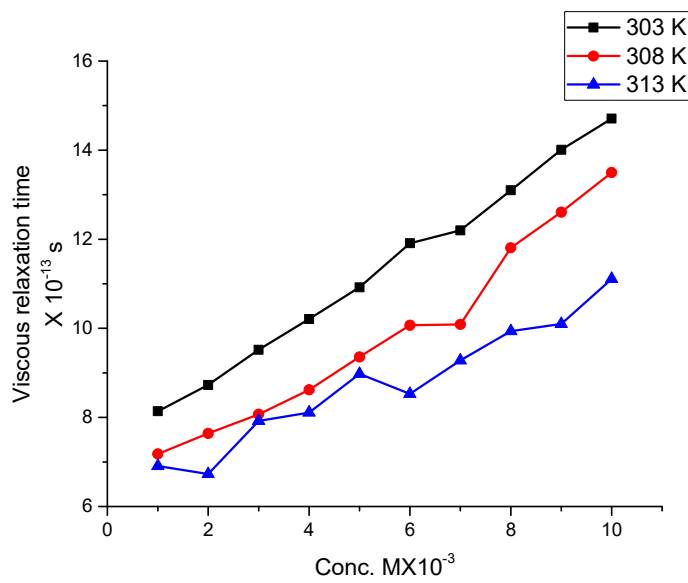


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Fig. S7 – Plot between Conc. and molecular interaction parameter for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K. !

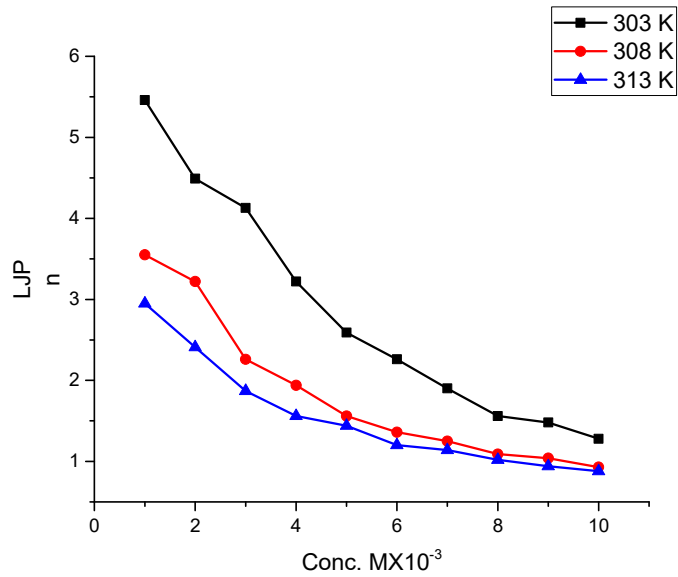
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Fig. S8 –Plot between Conc. and viscous relaxation time for 4MBA +DMA+ n hexane at 303 K, 308K and 313K.

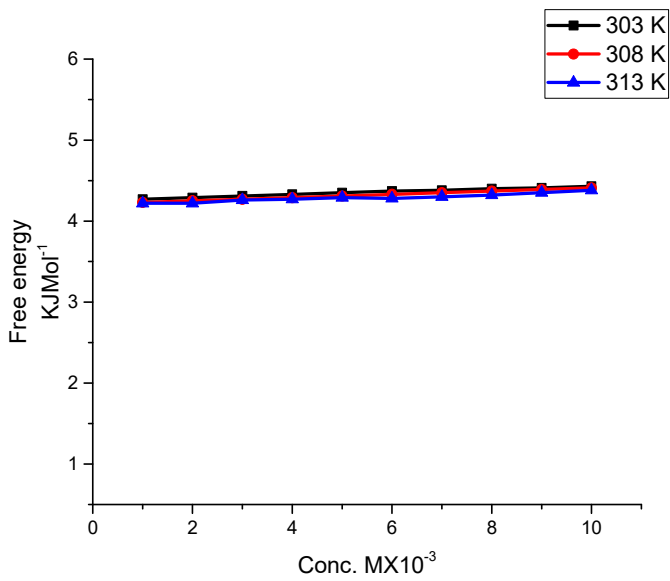


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Fig. S9 – Plot between Conc. and LJP for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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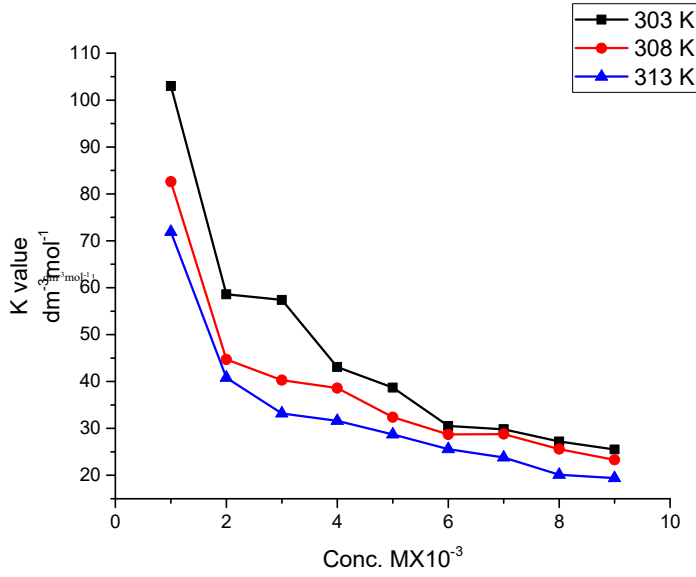
Fig. S10 – Plot between Conc. and free energy for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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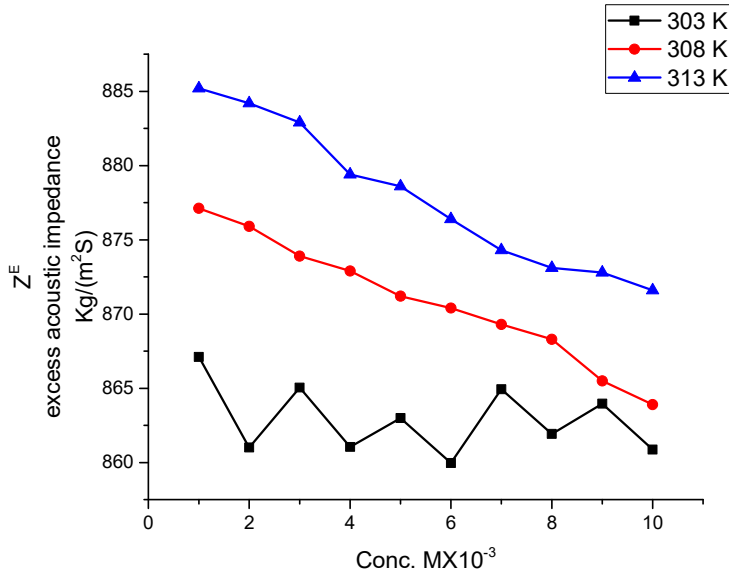
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Fig. S11 – Plot between Conc. and K value for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

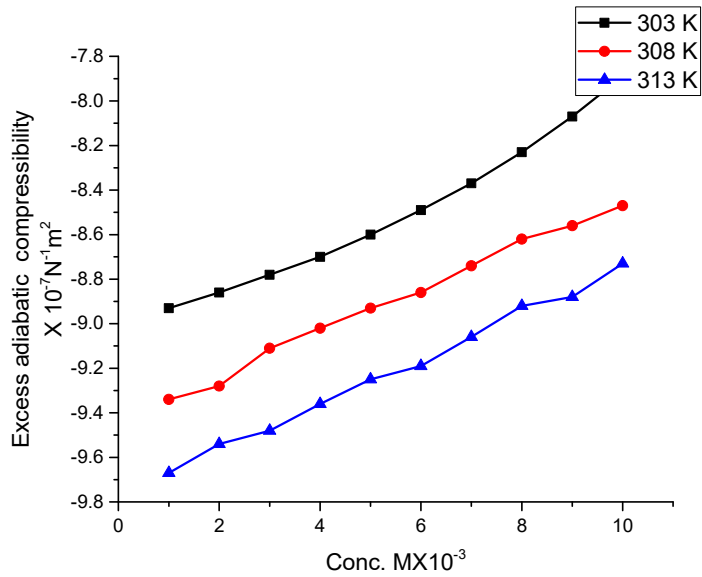


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Fig. S12 – Plot between Conc. and excess acoustic impedance for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

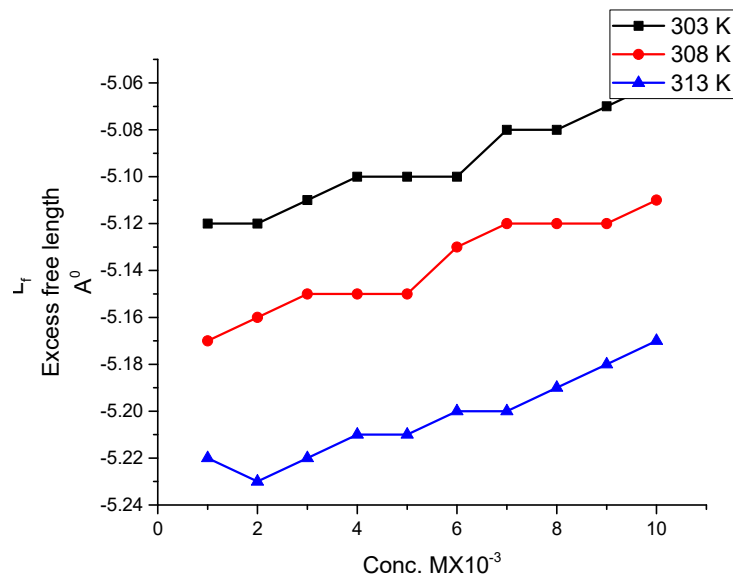
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Fig. S13 – Plot between Conc. and excess adiabatic compressibility for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

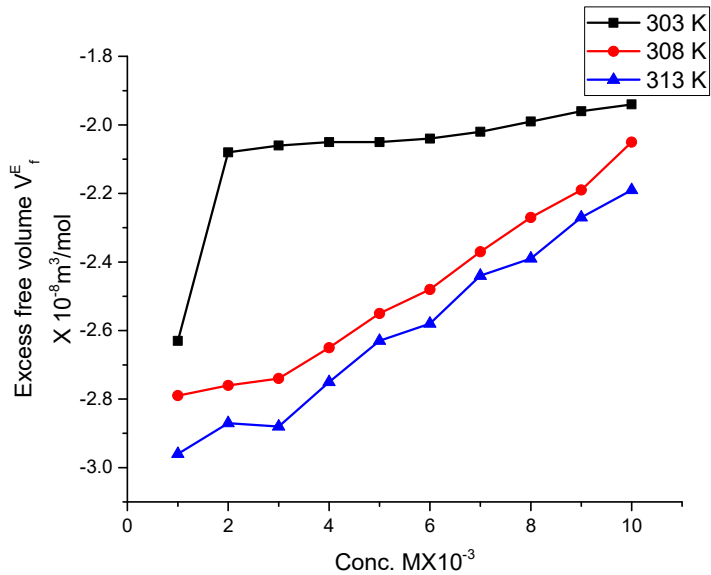


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Fig. S14 – Plot between Conc. and excess free length for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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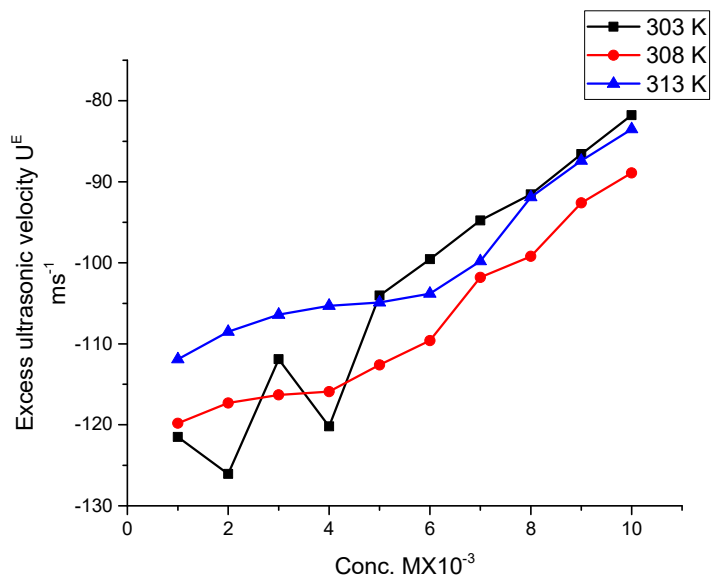
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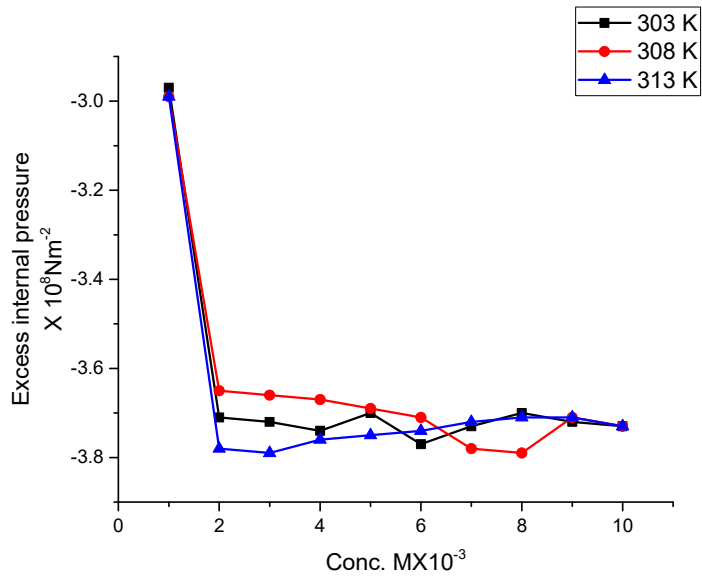
Fig. S15 – Plot between Conc. and excess free volume for 4MBA +DMA+n hexane at 303 K, 308 K & 313 K.

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Fig. S16 – Plot between Conc. and excess ultrasonic velocity for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.



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Fig. S17 – Plot between Conc. and excess internal pressure for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

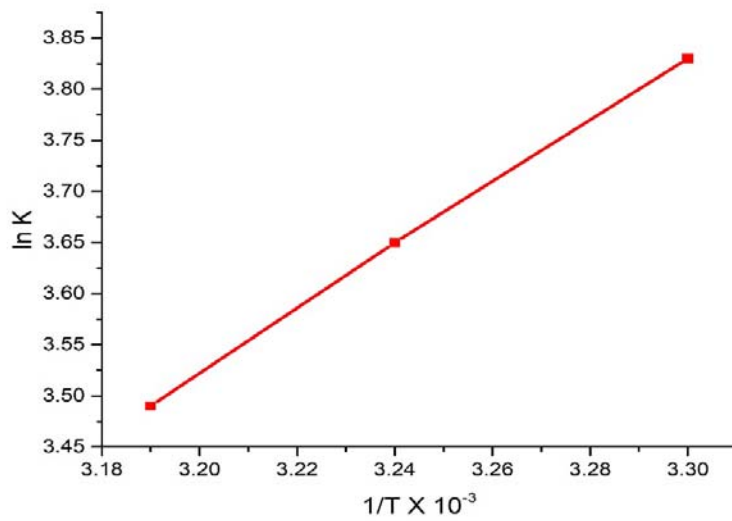


Fig. S18 – Plot between 1/T. and ln K for 4MBA +DMA+n hexane at 303 K, 308 K and 313 K.

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