

Density and Apparent Molal Volume Values of Hemoglobin in Aqueous Solutions of Methanol, Ethanol and Butanol

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Abstract—*In the present work, density values of 0.01 m hemoglobin solution and that of 0.01 m hemoglobin in aqueous solutions of methanol, ethanol and butanol at temperatures 298.15-313.15 K (at 5 degree intervals) have been reported. The trends show strong attractive forces between hemoglobin and alcohol molecules. The interactions are found to be more pronounced in case of ethanol in comparison to that of methanol and butanol, although the difference in density values is nominal. Apparent molal volume data of the said systems have also been reported.*