Abstract

TABLE I: PROPERTIES OF DMSO AND HYDROXAMIC ACIDS

T/K	*DMSO*

ϕ^0_E values originate from the highly hydrophobic characters of the solutes.

Fig. 1. Plots of excess molar volume, (V^E) vs concentration of (A) N-o-Tolyl-4-MBHA in DMSO, (B) N-p-Tolyl-2- MBHA in DMSO, at (•), 298.15 K; (●), 303.15 K; (7), 308.15 K; (▼), 313.15 K; and (■), 318.15 K.

V. Conclusions

Using density and refractive indices data, the apparent molar volumes, apparent molar volume at infinite dilution, expansibility, molar refraction and the excess properties have been computed. The behavior of excess parameters suggests the presence of solute-solvent interactions in the system. Positive V_ϕ , for both the hydroxamic acids suggest