

Volumetric Properties of Binary Mixtures of Acetonitrile-Ethers at Different Temperatures and Atmospheric Pressure

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Excess molar volumes data of binary mixtures of acetonitrile-tetrahydrofuran, or -1,4-dioxane, or -diisopropyl ether, or -di-n-butyl ether as a function of composition, under atmospheric pressure and at 288.15, 293.15, 298.15 and 303.15 K have been used to calculate the partial molar volumes at infinite dilution of each component using three different methods. The partial molar volumes at infinite dilution were calculated using the extrapolation of the Redlich-Kister relation, through the extrapolation of the apparent molar volumes and using a method based on extrapolation of the reduced volume. The results of these calculations are discussed.