

عنوان مقاله:

Vapor-liquid and liquid-liquid equilibrium for aqueous solutions containing of Choline-based Deep Eutectic Solvent and PPG400 at 298.15 K

محل انتشار:

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خلاصه مقاله:

Deep eutectic solvents (DES) have emerged in the past few years as a new class of solvents with promising applications in several fields [1]. For designing of industrial processes, it is essential to obtain vapor pressure data for these solvents especially in water media. From this view point, in this work we focused our attention on the study of vapor-liquid equilibria (VLE) of ternary {Choline Chloride/sucrose+ PPG400 + water} system at 298.15 K [2,3]. From this study water activity has been obtained using the improved isopiestic method. This investigation shows that PPG is able to form an aqueous biphasic system with DES above a certain concentration. This is indeed what we observed [experimentally by studying liquid-liquid equilibrium] [4]

کلمات کلیدی:

Deep Eutectic Solvents, Sucrose, Water Activity, Vapor-Liquid Equilibria, Liquid-Liquid Equilibria

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