

## Liquid-Liquid-Equilibrium (LLE) Measurement of Alcohols with Hexane and Glyceline

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Deep eutectic solvents (DES) which can be formed by mixing a quaternary ammonium salt with hydrogen bonding donor have been proposed as versatile alternatives to ionic liquids since their physicochemical properties resemble those of ionic liquids. DESs could be used as an extraction medium to resolve deadlock associated with azeotropic behaviors. Therefore, LLE data of azeotropic alcohol mixture systems with hexane and DES should be measured to understand phase equilibrium limits on the extraction process. In this study, three different alcohols, ethanol, 2-propanol and 1-butanol, were examined for LLE of alcohol-hexane azeotropic mixtures with glyceline which is a type of DES made of choline chloride and glycerol.