

Liquid-Liquid Equilibria for the Free Allyl Chloride + Methanol + Water and Epichlorohydrin + Methanol + Water System at 298.15 K and 308.15 K

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Epichlorohydrin (ECH) is used for production of epoxy resins, high performance adhesives. ECH is a mainly manufactured by the epoxidation of allyl chloride (ALC). ALC usually contains 1,5-hexadiene as impurities. In the process of ECH production ALC without 1,5-hexadiene (free ALC) is normally used. The LLE data are rare for free ALC. Liquid-Liquid equilibrium (LLE) data of free allyl chloride + methanol + water and epichlorohydrin + methanol + water were investigated for the ternary isothermal condition. The saturation limit determined by the cloud point method in this study. The analysis was carried out using refractometer.