

عنوان مقاله:

Liquid – Liquid Equilibrium Study of Benzene Extraction with Nformylmorpholine from Aliphatic Mixture at T = (303.15 – 343.15) K and Atmospheric Pressure

محل انتشار:

بیست و یکمین کنفرانس شیمی فیزیک انجمن شیمی ایران (سال: 1397)

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خلاصه مقاله:

Aromatic compounds in combination with aliphatic create azotropic mixture which those extraction is one of petrochemical and refinery companies challenging issue [1-2]. In this study, Nformylmorpholine(NFM) in industrial grades has been selected for azotrop point breaking agent. The liquid - liquid extraction properties were measured for several ternary systems containing(hexane + benzene + NFM) at T = (303.15 to 343.15) K and atmospheric pressure. Evaluation of extraction efficiency has been done by determination of experimental selectivity (S) and distribution coefficients (β) factors. The NRTL and UNIQUAC thermodynamic models have been used to correlate experimental LLE data. The Hansen solubility parameters were calculated and it were in agreement with solubility test results. The results indicate high selectivity of studied solvent (NFM) for benzene extraction from n-hexane phase.

کلمات کلیدی:

LLE Data, Hansen Solubility Parameters, N-Formylmorpholine, Benzene, Hexane

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