

RESEARCH NOTES

反式-1, 2-环基二醇+乙酸丁酯+水三元体系固液相平衡

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摘要 Using a laser observation technique, the solubilities of trans-1,2-cyclohexanediol in butyl acetate + water were measured at the temperature range from 298.15K to 323.15K by a synthetic method at atmospheric pressure. It is shown that the solubilities of trans-1,2-cyclohexanediol in butyl acetate + water were affected greatly by the proportion of butyl acetate and water, and presented maximum value at given temperature. The UNIFAC model was used to correlate the experimental data. The average relative deviation (ARD) between experimental and calculated values is 3.03%.

关键词 [trans-1,2-cyclohexanediol](#) [solid-liquid equilibria](#) [laser monitoring technique](#) [solubility](#) [UNIFAC](#)

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Solid-liquid equilibria of trans-1,2-cyclohexanediol+butyl acetate+water ternary system

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Abstract Using a laser observation technique, the solubilities of trans-1,2-cyclohexanediol in butyl acetate + water were measured at the temperature range from 298.15K to 323.15K by a synthetic method at atmospheric pressure. It is shown that the solubilities of trans-1,2-cyclohexanediol in butyl acetate + water were affected greatly by the proportion of butyl acetate and water, and presented maximum value at given temperature. The UNIFAC model was used to correlate the experimental data. The average relative deviation (ARD) between experimental and calculated values is 3.03%.

Key words [trans-1,2-cyclohexanediol](#); [solid-liquid equilibria](#); [laser monitoring technique](#); [solubility](#); [UNIFAC](#)

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