

热力学

1, 2-环己二醇溶解度的测定及关联

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收稿日期 2003-6-23 修回日期 2003-11-17 网络版发布日期 2008-9-1 接受日期

摘要 采用激光监视技术测定了1, 2-环己二醇在乙酸甲酯、乙酸乙酯、乙酸丙酯、乙酸丁酯、丙烯酸甲酯、丙烯酸乙酯、甲基丙基酮、乙酰乙酸乙酯和水中的溶解度, 并用UNIFAC模型进行了关联, 其溶解度预测值与实测值吻合良好.

关键词 [1,2-环己二醇](#) [溶解度](#) [激光检测技术](#) [UNIFAC模型](#)

分类号

MEASUREMENT AND CORRELATION OF SOLUBILITIES OF 1,2-CYCLOHEXANEDIOL

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Abstract

By using laser monitoring technique, the solubilities of 1,2-cyclohexanediol in different solvents, such as methyl acetate, ethyl acetate, propyl acetate, butyl acetate, methyl acrylate, ethyl acrylate, 2-pentanone, ethyl acetoacetate and water, were measured in larger temperature intervals by the synthetic method. A solubility UNIFAC model was proposed. The model was verified with experimental data in ternary systems of both water + ethyl acetate + 1,2-cyclohexanediol and water + butyl acetate + 1,2-cyclohexanediol, and the solubilities were calculated by the model and agreed with experimental data.

Key words [1, 2-cyclohexanediol](#) [solubility](#) [laser monitoring technique](#) [UNIFAC model](#)

DOI:

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