

RESEARCH NOTES

1,2-环己二醇在溶液中的溶解度

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 The solubility of trans-1,2-cyclohexanediol in water, methyl acetate, acetic ester, propyl acetate, butyl acetate, methyl acrylate, ethyl acrylate, 2-pentanone and acetoacetic ester was measured at temperatures ranging from about 300K to 330K, using a modification of the experimental technique of laser monitoring observation system. The solubilities were calculated by λh method, in which new parameters were introduced to express the activity coefficients of trans-1,2-cyclohexanediol, and determined from the experimental data. The new parameters provide good calculated results. The experimental data were also correlated with a simple model, and results were compared with present λh model.

关键词 1,2-环己二醇, 溶剂, 溶解度, 溶解热

分类号

DOI:

Stability of trans-1,2-Cyclohexanediol in Some Solvents

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Received Revised Online Accepted

Abstract The solubility of trans-1,2-cyclohexanediol in water, methyl acetate, acetic ester, propyl acetate, butyl acetate, methyl acrylate, ethyl acrylate, 2-pentanone and acetoacetic ester was measured at temperatures ranging from about 300K to 330K, using a modification of the experimental technique of laser monitoring observation system. The solubilities were calculated by λh method, in which new parameters were introduced to express the activity coefficients of trans-1,2-cyclohexanediol, and determined from the experimental data. The new parameters provide good calculated results. The experimental data were also correlated with a simple model, and results were compared with present λh model.

Key words [solid-liquid equilibrium](#); [solubility](#); [trans-1,2-cyclohexanediol](#); [acetate](#); [acrylate](#); [acetoacetate](#).

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