热力学

反式阿魏酸在溶剂中的溶解度

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摘要 由微波辅助提取技术应用到从稻壳中提取阿魏酸的过程中,采用溶剂萃取法分离提纯反式-阿魏酸。本文研究了反式-阿魏酸在8种二元物系相平衡数据,采用激光监视技术测定了反式-阿魏酸在乙酸甲酯,乙酸乙酯,乙酸丁酯,甲醇,乙醇,二氯甲烷,三氯甲烷和水混合溶剂中的溶解度,并用简单模型进行了关联,其溶解度关联值与实测值吻合程度良好。

关键词

反式阿魏酸 萃取 溶解度 激光监视技术 简单模型

分类号

Measurement and correlation of solubilities of trans-ferulic acid in solvents

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Abstract

Ferulic acid was obtained from rice hull with the microwave-assisted extraction method. The solubility data of *trans*-ferulic acid in 8 binary systems of water and organic solvents, such as methyl acetate, ethyl acetate, butyl acetate, methanol, ethanol, dichloromethane and chloroform were measured from 273.15 K to 333.15 K. The empirical equation was adopted, and the solubilities calculated by the model were in good agreement with experimental data.

Key words

trans-ferulic acid extraction solubility laser monitoring technique simple model

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