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黄芩甙在EOPO/盐双水相系统中的分配系数测定及关联

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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 partition coefficients of baicalin were measured in ethylene oxide and propylene oxide

(EOPO)/salt aqueous two-phase systemsat 298.15K. It was found that most of baicalin partitioned into EOPO-rich phase. The partition coefficients of baicalin varied from 10 to 120. The effect of various factors, including tie-line length, salt composition, molecular weight of EOPO, and solution pH, on the partition behaviorwas investigated in EOPO/salt systems. Furthermore the partition coefficients of baicalin were correlated using the modified Diamond-Hsumodel. Good agreement with experimental data is obtained. The average

relative deviations are less than 5.0%.

关键词 aqueous two-phase system ethylene oxide and proplene oxide partition coefficient

<u>baiealin</u>

分类号

DOI:

Measurement and Correlation of Partition Coefficients of Baicalin in EOPO/Salt Aqueous Two -Phase Systems

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Received Revised Online Accepted

Abstract The partition coefficients of baicalin were measured in ethylene oxide and propylene oxide (EOPO)/salt aqueous two-phase systemsat 298.15K. It was found that most of baicalin partitioned into EOPO-rich phase. The partition coefficients of baicalin varied from 10 to 120. The effect of various factors, including tie-line length, salt composition, molecular weight of EOPO, and solution pH, on the partition behaviorwas investigated in EOPO/salt systems. Furthermore the partition coefficients of baicalin were correlated using the modified Diamond-Hsumodel. Good agreement with experimental data is obtained. The average relative deviations are less than 5.0%.

Key words aqueous two-phase system; ethylene oxide and proplene oxide; partition coefficient; baiealin

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