中国化学工程学报 2005 13 (4) 548-551 ISSN: 1004-5416; CN: 44-1063/R

RESEARCH NOTES

麝香酮、二甲苯麝香溶液结晶研究

曲红梅[a]，刘小山[a]，白建[a]，杨志才[a]，金国钧[a]

[a] School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

[b] Chemistry Department, Tsinghua University, Beijing 100084, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 The ternary phase diagrams of musk ketone, musk xylene and various solvent were obtained by calculations. Moreover, the double saturated lines were found to be curve for the first time. The methods to separate eutectic mixtures of musks by solution crystallization were suggested on the basis of these phase diagrams. A new process was proposed to get musk ketone and musk xylene from the eutectics by adding acetonitrile and heptane in turn, which was verified by experiments. Musk xylene with purity of 97.50% and musk ketone with purity of 98.10% were obtained.

关键词 麝香酮；二甲苯麝香溶液；相平衡；三体相图；溶液结晶和结晶

分类号

DOI:

Study on Solution Crystallization of Musk Ketone and Musk Xylene

QU Hongmei[a], ZHOU Lishan[a], BAI Jian[a], YANG Zhicai[a], Yu Guojun[a]

[a] School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

[b] Chemistry Department, Tsinghua University, Beijing 100084, China

Received Revised Online Accepted

Abstract The ternary phase diagrams of musk ketone, musk xylene and various solvent were obtained by calculations. Moreover, the double saturated lines were found to be curve for the first time. The methods to separate eutectic mixtures of musks by solution crystallization were suggested on the basis of these phase diagrams. A new process was proposed to get musk ketone and musk xylene from the eutectics by adding acetonitrile and heptane in turn, which was verified by experiments. Musk xylene with purity of 97.50% and musk ketone with purity of 98.10% were obtained.

Key words musk ketone; musk xylene; ternary phase diagram; solution crystallization.

通讯作者:
曲红梅
作者个人主页: 曲红梅[a]；刘小山[a]；白建[a]；杨志才[a]；金国钧[a]

扩展功能
本文信息
Supporting info
PDF(120KB)
[HTML全文](0KB)
发布文章
服务与反馈
把本文推荐给朋友
加入我的书架
加入引用管理器
给作者发E-mail
Email 通知
本刊邮箱
浏览次数统计
相关检索
本刊中 包含“麝香酮”的 相关文章
本文作者相关文章
曲红梅
刘小山
白建
杨志才
金国钧
Google