

分离工程

利用熔融结晶法进行芴的提纯

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摘要 以工业芴为原料, 实验研究了利用熔融结晶法制备精芴的工艺过程, 考察了结晶降温速率、结晶终温、发汗升温速率及发汗终温对产品纯度及收率的影响, 得到了利用熔融结晶方法分离提纯芴的优化工艺条件, 产品纯度可达97.4%。同时根据实验结果, 对芴与2-甲基氧芴二元物系的固液平衡相图进行了推测分析。

关键词

[芴](#) [2-甲基氧芴](#) [熔融结晶](#)

分类号

Purification of fluorene by melt crystallization

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Abstract

The refining process of fluorene by melt crystallization was experimentally studied. The effects of the cooling rate, final temperature in the crystallization process, heating rate and final temperature in the sweating process on the purity and yield of the product were investigated. The optimum conditions of the refining process of fluorene by melt crystallization were determined and a product with purity of 97.4% was obtained. The binary solid-liquid equilibrium phase diagram for fluorene and 2-methyl-diphenylene oxide is analyzed according to the experimental results.

Key words

[fluorene](#) [2-methyl-diphenylene oxide](#) [melt crystallization](#)

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