

RESEARCH NOTES

氯苯双羰基化反应动力学

欧阳平凯, 范伟平, 张湜

College of Pharmaceutics and Life Science, Nanjing University of Chemical Technology, Nanjing 210009, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 It is a multi-phase-catalyzed reaction to produce calcium phenylpyruvate by double carbonylation of benzylchloride. Based on the analysis of the reaction mechanism, a kinetic model of the carbonylation reaction was obtained. The model was verified through experiments in which the diffusion effect was neglected with the appropriate operation manner. But it is inevitable that the carbonylation process is controlled by diffusion as the autoclave scaling up.

关键词 [benzylchloride](#) [carbonylation](#) [kinetics](#)

分类号

DOI:

Kinetics of the Double Carbonylation of Benzylchloride

OUYANG Pingkai, FAN Weiping, ZHANG Shi

College of Pharmaceutics and Life Science, Nanjing University of Chemical Technology, Nanjing 210009, China

Received Revised Online Accepted

Abstract It is a multi-phase-catalyzed reaction to produce calcium phenylpyruvate by double carbonylation of benzylchloride. Based on the analysis of the reaction mechanism, a kinetic model of the carbonylation reaction was obtained. The model was verified through experiments in which the diffusion effect was neglected with the appropriate operation manner. But it is inevitable that the carbonylation process is controlled by diffusion as the autoclave scaling up.

Key words [benzylchloride](#); [carbonylation](#); [kinetics](#)

通讯作者:

欧阳平凯

作者个人主页: 欧阳平凯; 范伟平; 张湜

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#) (1650KB)

▶ [\[HTML全文\]](#) (0KB)

▶ [参考文献](#)

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](#)

▶ [引用本文](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“benzylchloride”的相关文章](#)

▶ 本文作者相关文章

· [欧阳平凯](#)

· [范伟平](#)

· [张湜](#)