

丝光沸石催化愈创木酚选择性烷基化反应的研究

刘彬堂,余金全,冯爱群,周萍,萧树德

中国科学院广州化学研究所

收稿日期 修回日期 网络版发布日期 接受日期

摘要 本文研究了氢型丝光沸石催化愈创木酚(1)与茨烯(2)的选择性烷基化反应.

该烷基化反应产物萘基愈创木酚(3~6)中含5-异茨基愈创木酚(3a)25.0%,经氢化,氢解得萘基环己醇混合物,含人造檀香主要成份反式-3-异茨基环己醇(7a)23.0%.通过IR,  $^1\text{H}$  NMR 和MS鉴定了烷基化产物色谱图中的5个主要化合物.

关键词 [选择性](#) [烷基化](#) [丝光沸石](#) [愈创木酚](#) [茨烯](#)

分类号 [0621](#)

## Study on selective alkylation of guaiacol with camphene over H-Mordenite

LIU BINTANG, YU JINQUAN, ENG AIQUN, ZHOU PING, XIAO SHUDE

**Abstract** The selective alkylation reaction of guaiacol (1) with camphene (2) over H-Mordenite has been studied, through which the content of 5-isocamphylguaiacol (3a) among the alkylation products terpenylguaiacols (3~6) has been raised to about 25.0%. The subsequent hydrogenation and hydrogenolysis of the obtained alkylation products give a mixture of terpenylcyclohexanols containing 23.0% of trans-3-isocamphylcyclohexanol which is the essential constituent of "Santalodyol". Five main peaks on gas chromatography of the alkylation products have been identified by IR,  $^1\text{H}$  NMR and MS.

**Key words** [SELECTIVITY](#) [ALKYLATION](#) [MORDENITE](#) [GUAIACOL](#) [CAMPHENE](#)

DOI:

通讯作者

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(0KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [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](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“选择性”的  
相关文章](#)

▶ [本文作者相关文章](#)

- [刘彬堂](#)
- [余金全](#)
- [冯爱群](#)
- [周萍](#)
- [萧树德](#)