

研究论文

Pt(DVDS)-Phan催化的末端炔烃的硅氢加成反应

张晓云, 吴伟, 谢召军, 夏道宏

中国石油大学化学化工学院, 东营 257061

收稿日期 2006-11-20 修回日期 网络版发布日期 2007-8-9 接受日期

摘要 以Pt(DVDS)-Phan体系作为末端炔烃与三乙基硅烷或三苯基硅烷进行硅氢加成的催化剂, 除三甲基硅乙炔与三乙基硅烷反应外, 其余反应的收率均高于90%, 并且高选择性地或唯一地得到马氏加成产物或者反马氏反式加成产物, 立体选择性或区域选择性超过95%.

关键词 [末端炔烃](#) [硅氢加成](#) [烯基硅烷](#) [Pt催化体系](#) [非离子超强碱](#)

分类号 [O621.3](#)

DOI:

Hydrosilylation of Terminal Alkynes Catalyzed by Pt(DVDS)-Phan Complex

ZHANG Xiao-Yun, WU Wei*, XIE Zhao-Jun, XIA Dao-Hong

College of Chemistry and Chemical Engineering, China University of Petroleum, Dongying 257061, China

Received 2006-11-20 Revised Online 2007-8-9 Accepted

Abstract The catalyst system Pt(DVDS)-proazaphosphatrane, containing a bulky aminophosphine ligand, was used to catalyze the hydrosilylation of various terminal alkynes with Et₃SiH or Ph₃SiH. These reactions occurred efficiently and stereo- and regioselectively. Anti-markonikov E-products or Markonikov α-products were obtained with a selectivity >95% in a yield >90% except in one case where the selectivity and the yield were a little lower.

Key words [Terminal alkyne](#); [Hydrosilylation](#); [Vinylsilane](#); [Pt catalyst system](#); [Nonionic super base](#)

通讯作者:

吴伟 wugroupmat@163.com

作者个人主页: 张晓云; 吴伟; 谢召军; 夏道宏

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#) (194KB)

▶ [\[HTML全文\]](#) (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“末端炔烃”的 相关文章](#)

▶ 本文作者相关文章

· [张晓云](#)

· [吴伟](#)

· [谢召军](#)

· [夏道宏](#)