

研究论文

二氧化硅负载钯(0)配合物催化酰氯和芳基碘与四苯硼化钠的苯基化反应

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摘要 氯丙基三乙氧基硅烷依次与气相法二氧化硅、二苯胂钾、氯化钯作用,再用水合肼还原,合成了二氧化硅负载的钯(0)配合物.该配合物是酰氯及芳基碘化物与四苯硼化钠苯基化反应的有效催化剂,为苯基酮及不对称联苯的合成提供了简便且实用的新方法.

关键词 [聚合物钯催化剂](#) [钯\(0\)配合物](#) [四苯硼化钠](#) [苯基酮](#) [联苯](#)

分类号

Silica-supported Arsine Palladium(0) Complex Catalyzed Phenylation of Acid Chlorides and Aryl Iodides by Sodium Tetraphenylborate

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Abstract A silica-supported arsine palladium(0) complex has been prepared from γ -chloropropyltriethoxysilane via immobilization on fumed silica, followed by reaction with potassium diphenylarsenide and palladium chloride, and then reduction with hydrazine hydrate. The complex exhibited good activity in phenylation reaction of acid chlorides and aryl iodides by sodium tetraphenylborate. This polymeric palladium(0) catalyst was stable and could be reused without noticeable loss of activity.

Key words [polymeric palladium catalyst](#) [arsine palladium\(0\) complex](#) [sodium tetraphenylborate](#) [phenyl ketone](#) [biaryl](#)

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