

عنوان مقاله:

 $Bis[(\gamma-ethoxy-\gamma-oxoethyl)triphenyl phosphonium] di-\mu-chloro-bis[bromochloro palladate (II)] and its application in Heck and Suzuki cross-coupling reactions$

محل انتشار: مقالات مروری و پژوهشی شیمی, دوره 7, شماره 2 (سال: 1403)

تعداد صفحات اصل مقاله: 11

نويسندگان:

.Ali Naghipour - Department of Chemistry, Faculty of science, Ilam University, Ilam, Ilam ۶۹۳۱۵-۵۱۶, Iran

.Abozar Bastami - Department of Chemistry, Faculty of Science, Ilam University, Ilam, Iran

Ali khatibjoo - Department of Animal Science, Faculty of Agriculture, Ilam University, Ilam- Iran

.Fatahnia Farshid - Department of Animal Science, Faculty of Agriculture, Ilam University, Ilam- Iran

خلاصه مقاله:

In this study, the phosphonium salt [Ph^TPCHC(O)OCH^TCH^T]Br undergoes a reaction with palladium(II) chloride, resulting in the formation of [Ph^TPCHC(O)OCH^TCH^T]^T[Pd^TCl^TBr^T]. The synthesized compound underwent thorough characterization through elemental analysis, as well as FT-IR, \H, ^T\P, and \^TC NMR spectroscopies. The investigation revealed that this particular substance serves as an efficient catalyst for the Heck cross-coupling reaction, leading to the synthesis of diverse unsaturated products with highly favorable outcomes. Moreover, it has demonstrated effectiveness in catalyzing .the Suzuki cross-coupling reaction. Notably, the catalyst exhibits sustained catalytic activity and can be conveniently recovered and reused

كلمات كليدى:

Phosphonium salt, Palladium(II), Heck C-C coupling, Suzuki cross-coupling

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1943718

