Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Benzimidazolylidene Carbene Ligated Palladium Catalysis of the Heck Reaction in Aqueous Media

İsmail ÖZDEMİR[1] , Yetkin GÖK[1] , Nevin GÜRBÜZ[1] , Bekir ÇETİNKAYA[2]

[1]İnönü University, Faculty Science and Arts, Department of Chemistry, 44280 Malatya-TURKEY

[2]Ege University, Department of Chemistry, 35100 Bornova, İzmir-TURKEY

Keywords
Authors

Abstract: A highly effective, easy to handle and environmentally benign process for a palladium mediated Heck reaction was developed. The in situ prepared 3-component system, $Pd(OAc)_2$ / 1,3-dialkylbenzimidazolium chlorides (LHX = 1a-g) and Cs_2CO_3, catalyzes quantitatively the Heck coupling of aryl bromides under mild conditions in aqueous media.

Key Words: Heck coupling, palladium, benzimidazolin-2-ylidene, benzimidazolium, N-heterocyclic carbene

chem@tubitak.gov.tr

Scientific Journals Home Page

Turk. J. Chem., **31**, (2007), 397-402.
Full text: pdf
Other articles published in the same issue: Turk. J. Chem.,vol.31,iss.4.