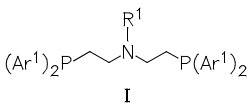
Polyphenyl derivatives

Q 0700

25- 105

Phosphorus—Nitrogen—Phosphorus Ligands: Cooperative Effects Between Nitrogen and Phosphorus Substituents on Catalytic Activity. — Novel phosphorus—nitrogen—phosphorus ligands (I) bearing different diarylphosphine groups are prepared and used as ligands in the Pd-catalyzed Suzuki-reaction. — (PARISEL, S. L.; MOORCROFT, N. D.; JUTAND, A.; ALDOUS, D. J.; HII*, K. K.; Org. Biomol. Chem. 2 (2004) 3, 301-306; Dep. Chem., King's Coll., London WC2R 2LS, UK; Eng.) — M. Paetzel

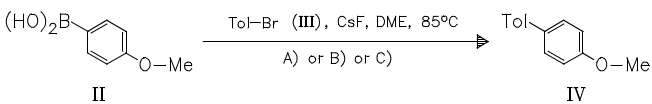


I

a R^1: —O—Me ; Ar^1: —Tol

b R^1: —O—Me ; Ar^1: —NMe_2

c R^1: —tBu ; Ar^1: —NMe_2

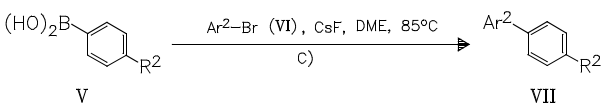


II IV

A): $Pd_2(dba)_3{\cdot}CHCl_3$/Ia (cat.) A): 88%

B): $Pd_2(dba)_3{\cdot}CHCl_3$/Ib (cat.) B): 91%

C): $Pd_2(dba)_3{\cdot}CHCl_3$/Ic (cat.) C): 96%



V VII

a R^2: —F ; Ar^2: —CO—Me 95%

b R^2: —F ; Ar^2: —O—Me 79%

c R^2: —H ; Ar^2: Me—O 48%