

Suzuki-Miyaura and Hiyama reactions catalyzed by orthopalladated triarylphosphite complexes.

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Streszczenie

Orthometallated, dimeric, and monomeric palladium complexes with triphenylphosphite ligands and square-planar complexes of the type $\text{PdCl}_2[\text{P}(\text{OR})_3]_2$ (where $\text{R}=\text{Ph}$, $m\text{-MeC}_6\text{H}_4$, $o\text{-MeC}_6\text{H}_4$, $\text{C}_6\text{H}_3\text{-2,4-}^t\text{Bu}_2$) were applied in the Suzuki–Miyaura and the Hiyama reactions leading to the same product, 2-Mebiphenyl. The desired product was obtained in high yield in reactions performed in ethane-1,2-diol with Cs_2CO_3 as a base. The optimized procedure was also applied to the synthesis of other biphenyl derivatives, and in most cases the Suzuki–Miyaura procedure led to higher yields of the product.

Słowa kluczowe

Suzuki–Miyaura reaction, Hiyama reaction, Palladium, Orthometallation, Phosphite

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