

## Suzuki cross-coupling reaction catalyzed by the palladium complex Pd[N-MorphC(S)NP(O)(OiPr)<sub>2</sub>-O,S]<sub>2</sub>

Safin D., Babashkina M., Klein A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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### Abstract

Suzuki cross-coupling reaction between phenyl bromide and phenylboronic acid, catalyzed by the palladium complex Pd[N-MorphC(S)NP(O)(OiPr)<sub>2</sub>-1,5-O,S]<sub>2</sub> in acetonitrile, toluene, THF or DMF has been investigated. Bases employed for the reaction were Na<sub>2</sub>CO<sub>3</sub>, K<sub>2</sub>CO<sub>3</sub> or Cs<sub>2</sub>CO<sub>3</sub>. Varying largely the experimental conditions we found that excellent yields of the product were obtained using toluene and K<sub>2</sub>CO<sub>3</sub> at 100 °C at the catalyst amount of 0.02 mmol. © 2008 Springer Science+Business Media, LLC.

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### Keywords

Cross-coupling, N-Phosphorylthiourea, Palladium, Phenyl bromide, Phenylboronic acid, Suzuki-Miyaura reaction