A Protocol for Ligand Free Suzuki-Miyaura Cross-Coupling Reactions in WEB at Room Temperature

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General: Starting materials and solvents were purchased from common commercial sources and were used without additional purification. ¹H NMR spectra were recorded at 500 MHz or 300 MHz using TMS as internal standard. Infrared spectra were obtained from a FTIR spectrometer.

General experimental procedure for Suzuki reaction: A mixture of aryl halide (1 mmol), arylboronic acid (1.2 mmol) and Pd(OAc)₂ (0.5 mol%) in WEB (3 mL) was stirred for the indicated time at room temperature. Afterward, the reaction solution was extracted four times with diethyl ether (4 × 10 mL). The products were purified by column chromatography over silica gel using *n*-hexane/ethyl acetate (9:1 v/v) to get the desired coupling products. The products were characterized by ¹H NMR and GC-MS.

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