

Palladium supported on aminopropyl-functionalized polymethylsiloxane microspheres: simple and effective catalyst for the Suzuki-Miyaura C–C coupling.

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A palladium catalyst, obtained in the reaction of $\text{PdCl}_2(\text{MeCN})_2$ with microspheric aminopropyl polymethylsiloxane, was used in the Suzuki-Miyaura cross-coupling of various aryl bromides with phenylboronic acids. Catalytic reactions, performed at 80°C in a 2-propanol/water mixture, led to high yields of non-symmetric biphenyls. In recycling experiments, excellent results (up to 100%) were obtained in ten subsequent runs. Efficient separation of the catalyst from organic products was achieved by simple filtration due to the properties of microspheres.

Słowa kluczowe

Palladium, polymethylsiloxane, microspheres, Suzuki-Miyaura

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