

Publication

Barbier-Negishi Coupling of Secondary Alkyl Bromides with Aryl and Alkenyl Triflates and Nonaflates

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 4405883**Author(s)** Zhang, Ke-Feng; Christoffel, Fadri; Baudoin, Olivier**Author(s) at UniBasel** [Baudoin, Olivier](#) ;**Year** 2018**Title** Barbier-Negishi Coupling of Secondary Alkyl Bromides with Aryl and Alkenyl Triflates and Nonaflates**Journal** Angewandte Chemie International Edition**Volume** 57**Number** 7**Pages / Article-Number** 1982-1986

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A mild and practical Barbier-Negishi coupling of secondary alkyl bromides with aryl and alkenyl triflates and nonaflates has been developed. This challenging reaction was enabled by the use of a very bulky imidazole-based phosphine ligand, which resulted in good yields as well as good chemo- and site selectivities for a broad range of substrates at room temperature and under non-aqueous conditions. This reaction was extended to primary alkyl bromides by using an analogous pyrazole-based ligand.

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