Category

Metal-Mediated Synthesis

Key words

boronic acids cyclization rhodium T. JOHNSON, K.-L. CHOO, M. LAUTENS* (UNIVERSITY OF TORONTO, CANADA) Rhodium-Catalyzed Arylative Cyclization for the Enantioselective Synthesis of (Trifluoromethyl)cyclobutanols *Chem. Eur. J.* **2014**, *20*, 14194–14197.

Cyclization of 1-(Trifluoromethyl)-4-alkyn-1-ones with Arylboronic Acids

Significance: Lautens and co-workers report a rhodium-catalyzed cyclization of 1-(trifluoromethyl)-4-alkyn-1-ones with variously substituted arylboronic acids to obtain (trifluoromethyl)cyclobutanols bearing an exocyclic double bond.

Comment: The reactivity of the newly formed exocyclic double bond was explored by subjecting a (trifluoromethyl)cyclobutanol to an epoxidation reaction using MCPBA and an ozonolysis.

SYNFACTS Contributors: Paul Knochel, Diana Haas Synfacts 2015, 11(1), 0072 Published online: 15.12.2014 **DOI:** 10.1055/s-0034-1379646; **Reg-No.:** P15114SF