Category

Metal-Mediated Synthesis

Key words

anti-Markovnikov hydroalkylation

homoallylic alcohols

zinc

X. LIN, F.-L. QING* (SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY AND DONGHUA UNIVERSITY, SHANGHAI, P. R. OF CHINA)

Palladium-Catalyzed Anti-Markovnikov Hydroalkylation of Homoallylic Alcohols Bearing β-Fluorines *Org. Lett.* **2013**, *15*, 4478–4481.

Palladium-Catalyzed Anti-Markovnikov Hydroalkylation of Homoallylic Alcohols

Selected examples:

Significance: Lin and Qing report a mild and convenient protocol for the anti-Markovnikov hydro-alkylation of β , β -difluorinated homoallylic alcohols. The palladium-catalyzed reaction with alkylzinc reagents furnishes the products in good to excellent yields.

Comment: The reported protocol affords a wide range of synthetically useful *gem*-difluorinated compounds with good functional-group compatibility. Moreover, the results show that the transposition of CH₂ into CF₂ at the allylic position of homoallylic alcohols can modify the electronic and steric environment of the alkene.

SYNFACTS Contributors: Paul Knochel, Christoph Sämann Synfacts 2014, 10(1), 0072 Published online: 13.12.2013 **DOI:** 10.1055/s-0033-1340365; **Reg-No.:** P15513SF