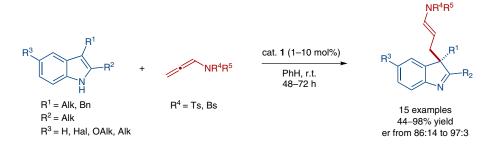
dearomatization quaternary carbon

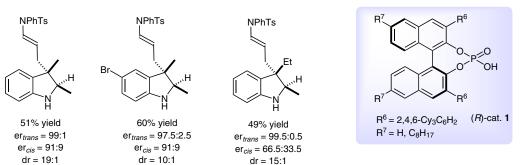
C. ROMANO, M. JIA, M. MONARI, E. MANONI, M. BANDINI* (UNIVERSITY OF BOLOGNA, ITALY) Metal-Free Enantioselective Electrophilic Activation of Allenamides: Stereoselective Dearomatization of Indoles

Enantioselective Dearomatization of Indoles



Selected examples of dearomatization-hydrogen transfer cascade:

Angew. Chem. Int. Ed. 2014, 53, 13854-13857.



Selected examples:

Significance: Bandini and co-workers report an enantioselective dearomatization of indoles. Using 1 to 10 mol% of chiral phosphoric acid catalyst 1, the desired 3,3-disubstituted indolenines are obtained in moderate to high yields and good to excellent enantioselectivities.

Comment: The authors developed an enantioselective electrophilic activation of allenamides, generating enantioenriched dearomatized 3,3-disubstituted indolenines as products. Additionally, a dearomatization-hydrogen transfer cascade was conducted. Performing the reaction in the presence of molecular sieves and Hantzsch ester, the corresponding indolines are obtained in good yields and with high diastereo- and enantioselectivities.

 $\textbf{SYNFACTS Contributors:} \ Benjamin \ List, \ Lisa \ K\"{o}tzner$ Synfacts 2015, 11(1), 0089 Published online: 15.12.2014 DOI: 10.1055/s-0034-1379623; Reg-No.: B12614SF