

Personal Copy



J. OYAMADA, M. NISHIURA, Z. HOU* (RIKEN ADVANCED RESEARCH SCIENCE INSTITUTE, WAKO, JAPAN)

Scandium-Catalyzed Silylation of Aromatic C-H Bonds Angew. Chem. Int. Ed. 2011, 50, 10720-10723.

Category

Metal-Mediated Synthesis

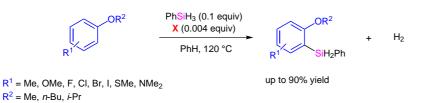
Key words

scandium

silylation

C-H activation

Scandium-Catalyzed Silylation of Aromatic C-H Bonds



Selected examples:

Significance: The first ortho-regioselective, catalytic C-H silylation of aromatic alkoxides achieved by half-sandwich scandium alkyls is reported. Carbon-heteroatom bonds such as C-SMe and C-halogen are well tolerated.

Comment: It is noteworthy that no exterior hydrogen acceptors such as alkenes are required to increase the conversion. Nevertheless, a huge excess of aromatic alkoxides is necessary to achieve high yields.

 $\textbf{SYNFACTS Contributors:} \ Paul \ Knochel, \ Nadja \ M. \ Barl$ Synfacts 2012, 8(1), 0083 Published online: 19.12.2011 $\textbf{DOI:}\ 10.1055/s\text{-}0031\text{-}1289468;\ \textbf{Reg-No.:}\ P16311SF$