## Category

**Metals in Synthesis** 

Key words

deoxygenation secondary alcohols stannanes



D. H. R. BARTON\*, S. W. MCCOMBIE\* (IMPERIAL COLLEGE LONDON, UK) A New Method for the Deoxygenation of Secondary Alcohols *J. Chem. Soc., Perkin Trans. 1* 1975, *16*, 1574–1585.

## Radical-Driven Deoxygenation of Secondary Alcohols: The Barton–McCombie Reaction

**Significance:** The authors reported a very broadly applicable method for the deoxygenation of secondary alcohols, providing complex hydrocarbons in high yields. The alcohol thereby has to be activated by transforming it into its corresponding thioester.

**Comment:** By using a radical mechanism and the favorable formation of an S–Sn bond, these thioesters can be deoxygenated. This concept has been revived in the Barton–McCombie decarboxylation (*J. Chem. Soc., Chem. Commun.* **1980**, *15*, 732).

**SYNFACTS Contributors:** Paul Knochel, Simon Graßl Synfacts 2019, 15(08), 0902 Published online: 18.07.2019 **DOI:** 10.1055/s-0039-1689840; **Reg-No.:** P08219SF