

433. Williamson Synthesis

A. W. Williamson, *J. Chem. Soc.* **4**, 229 (1852).

Synthesis of symmetrical or unsymmetrical ethers by alkylation of alkoxides with primary alkyl halides, sulfates or tosylates; usually by an S_N2 mechanism:



Reviews: H. Feuer, J. Hooz in *The Chemistry of the Ether Linkage*, S. Patai, Ed. (Wiley, New York, 1967) pp 446-460; H. O. Kalinowski *et al.*, *Ber.* **114**, 477 (1981). Applications on solid support: A. Weissberg *et al.*, *J. Comb. Chem.* **3**, 154 (2001). Catalytic synthesis of alkyl aryl ethers: E. Fuhrmann, J. Talbiersky, *Org. Process Res. Dev.* **9**, 206 (2005).