Continuous-Flow Pd/C-Catalyzed Reductive Alkylation of Alcohols with Aldehydes

Significance: The authors have developed a continuous-flow system for the reductive alkylation of alcohols with aldehydes catalyzed by Pd/C in the presence of hydrogen, giving the corresponding ethers in 35–93% yield.

Comment: In the long-term flow reaction of butan-1-ol with octanal, butyl octyl ether was obtained in 50% yield after eight hours.