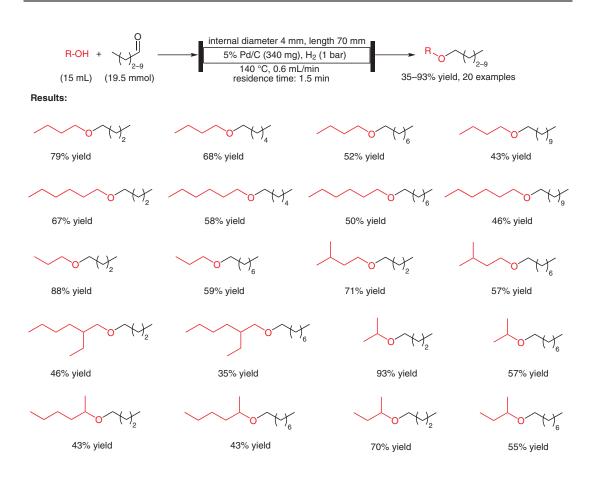
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Continuous-Flow Reductive Alkylation: Synthesis of Bio-Based Symmetrical and Dissymmetrical Ethers *Synthesis* **2018**, *50*, 1849–1856.

## 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.

Category

Polymer-Supported Synthesis

## Key words

palladium catalysis
flow reaction
reductive alkylation
ethers
green chemistry



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