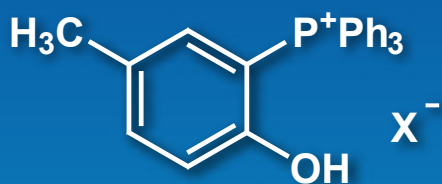


Bifunctional Phosphonium Salt Catalysts for CO₂ Fixation and Selective Acylation



X = Br

MeTAPS-Br 1g / 5g [H1748]

X = I

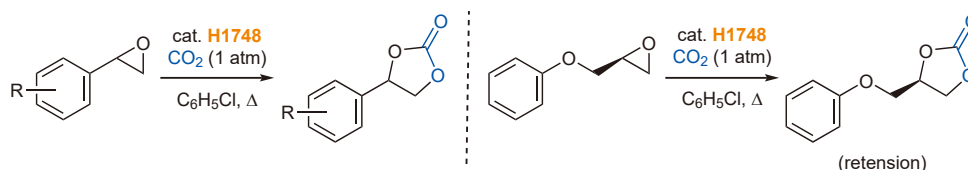
MeTAPS-I 1g / 5g [H1749]

Advantages

- Catalyst for CO₂-fixation at atmospheric pressure to form cyclic carbonates from epoxides.
- Catalyzes the formation of oxazolidinone ring.
- The ylide catalyzes base-free regioselective acylation of diols.

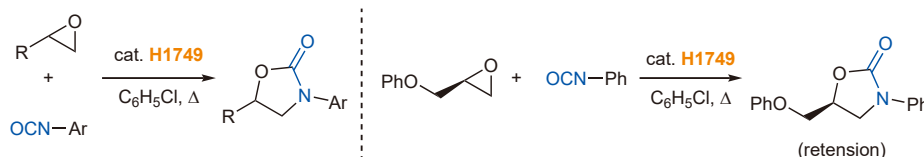
Applications

Carbon Dioxide Fixation for the Synthesis of Cyclic Carbonates



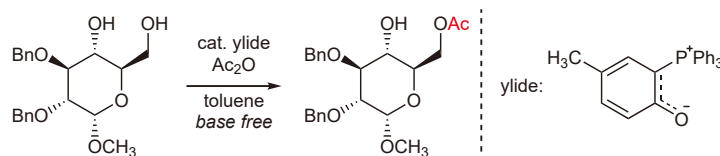
Reference Y. Toda, Y. Komiyama, A. Kikuchi, H. Suga, *ACS Catal.* **2016**, 6, 6906. <https://doi.org/10.1021/acscatal.6b02265>

Synthesis of Oxazolidinones



Reference Y. Toda, S. Gomyou, S. Tanaka, Y. Komiyama, A. Kikuchi, H. Suga, *Org. Lett.* **2017**, 19, 5786. <https://doi.org/10.1021/acs.orglett.7b02722>

Regioselective Acylation of Diols



Reference Y. Toda, T. Sakamoto, Y. Komiyama, A. Kikuchi, H. Suga, *ACS Catal.* **2017**, 7, 6150. <https://doi.org/10.1021/acscatal.7b02281>

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