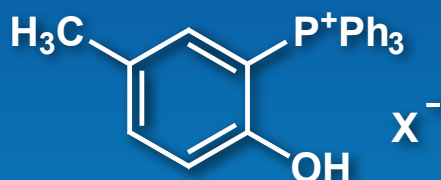


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# Bifunctional Phosphonium Salt Catalysts for CO<sub>2</sub> Fixation and Selective Acylation



X = Br [H1748]

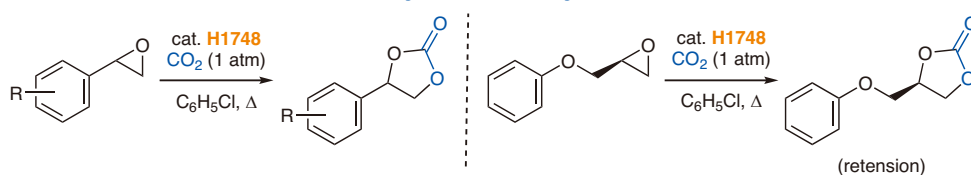
X = I [H1749]

## Advantages

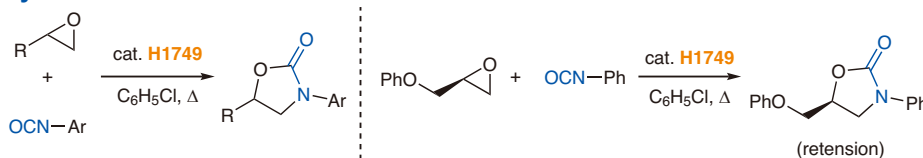
- Catalyst for CO<sub>2</sub>-fixation at atmospheric pressure to form cyclic carbonates from epoxides
- Catalyzes the formation of oxazolidinone ring
- The ylide catalyzes base-free regioselective acylation of diols.

## Applications

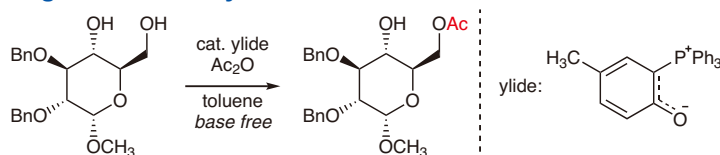
### Carbon Dioxide Fixation for the Synthesis of Cyclic Carbonates

Reference Y. Toda, Y. Komiyama, A. Kikuchi, H. Suga, *ACS Catal.* **2016**, *6*, 6906.

### Synthesis of Oxazolidinones

Reference Y. Toda, S. Gomyou, S. Tanaka, Y. Komiyama, A. Kikuchi, H. Suga, *Org. Lett.* **2017**, *19*, 5786.

### Regioselective Acylation of Diols

Reference Y. Toda, T. Sakamoto, Y. Komiyama, A. Kikuchi, H. Suga, *ACS Catal.* **2017**, *7*, 6150.

**(2-Hydroxy-5-methylphenyl)triphenylphosphonium Bromide**  
**(2-Hydroxy-5-methylphenyl)triphenylphosphonium Iodide**

1g / 5g [H1748]

1g / 5g [H1749]

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