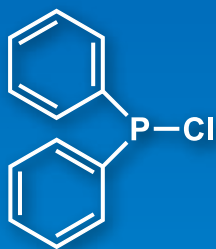
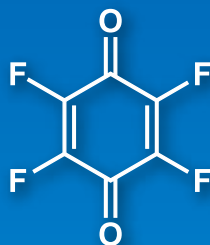


# Mukaiyama 氧化还原缩合试剂



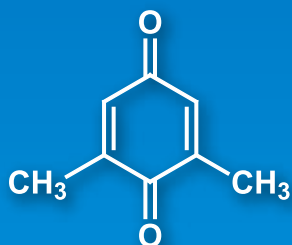
[C0597]



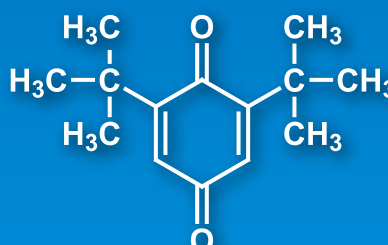
[T0790]



[B0887]



[D2234]

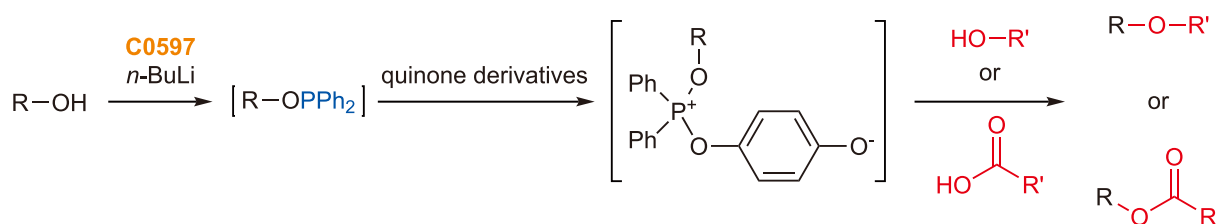


[D2256]

## 优势

- 对合成非对称醚和酯有效
- 通过 $S_N2$ 型反应得到立体化学的翻转产物
- 适用于叔醇

## 反应机理



T. Shintou, T. Mukaiyama, *J. Am. Chem. Soc.* **2004**, 126, 7359.

**C0597 Chlorodiphenylphosphine**

25g / 100g / 500g

**T0790 Tetrafluoro-1,4-benzoquinone**

1g / 5g

**B0887 1,4-Benzoquinone**

25g / 500g

**D2234 2,6-Dimethyl-1,4-benzoquinone**

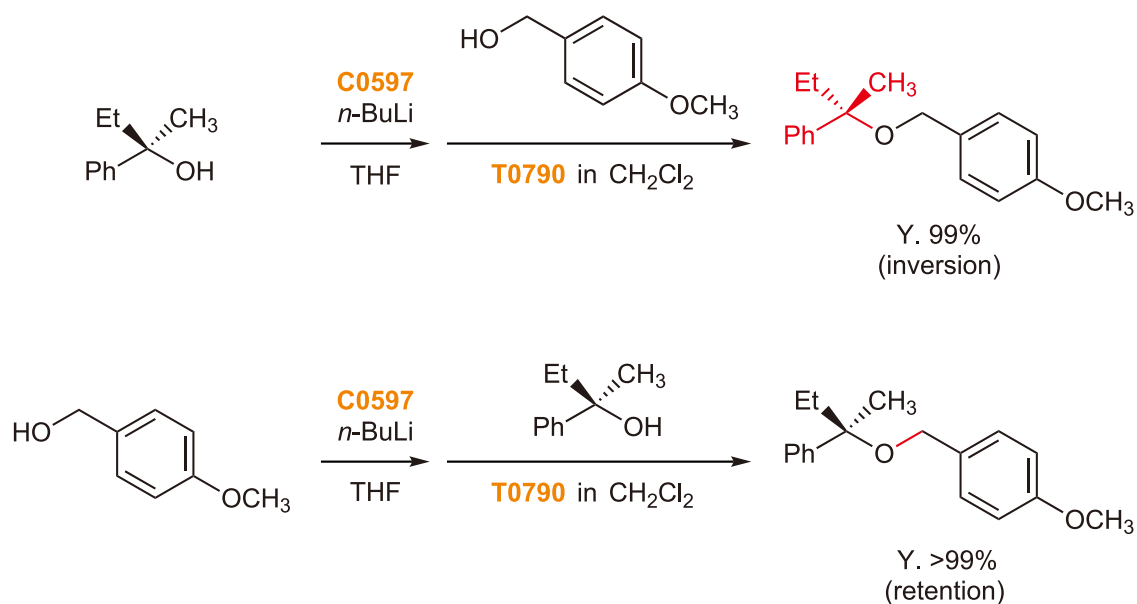
1g / 5g / 25g

**D2256 2,6-Di-tert-butyl-1,4-benzoquinone**

5g / 25g

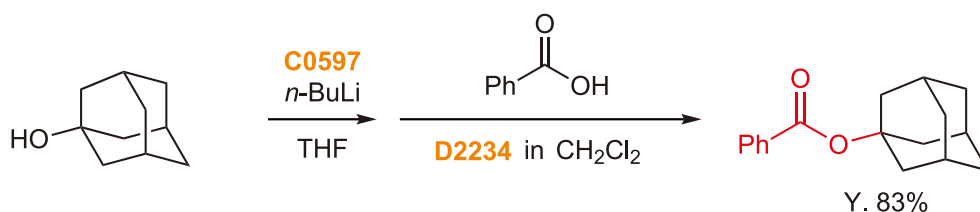
## 应用

## 构型翻转合成醚类



T. Shintou, T. Mukaiyama, *Chem. Lett.* **2003**, 32, 984.  
T. Shintou, T. Mukaiyama, *J. Am. Chem. Soc.* **2004**, 126, 7359.

## 用叔醇合成酯类



T. Shintou, W. Kikuchi, T. Mukaiyama, *Bull. Chem. Soc. Jpn.* **2003**, 76, 1645.

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缩合

