

# Mukaiyama 氧化还原缩合试剂



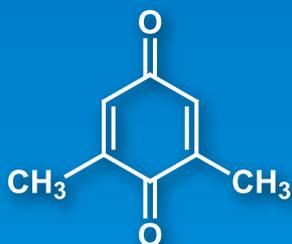
[C0597]



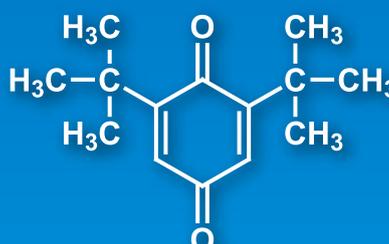
[T0790]



[B0887]



[D2234]

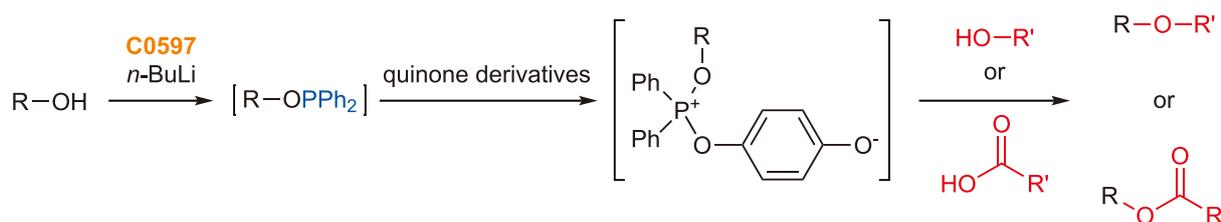


[D2256]

## 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

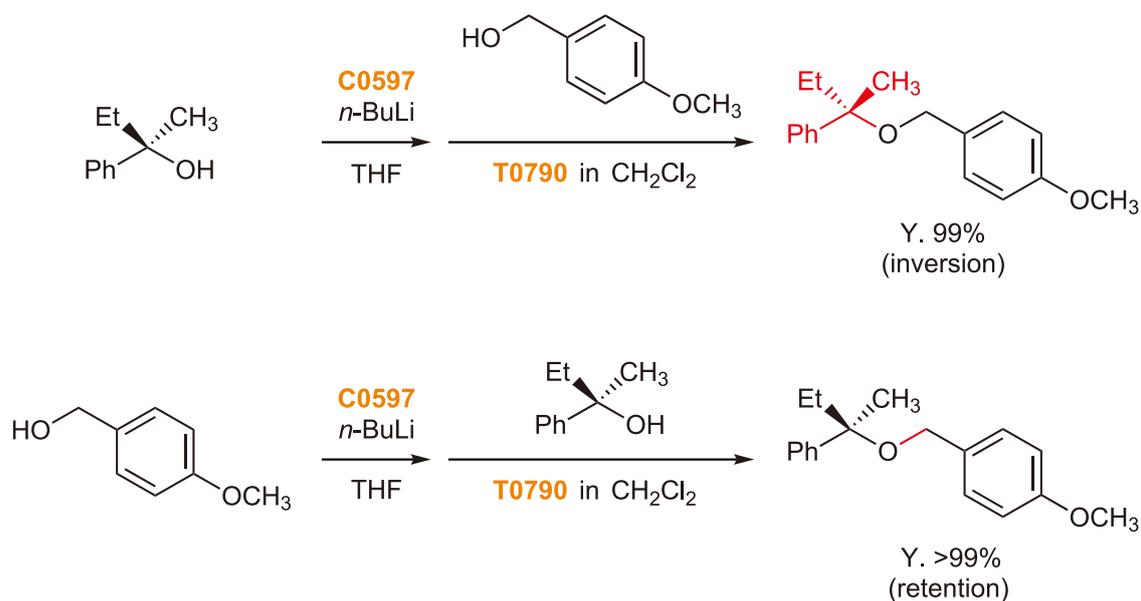


T. Shintou, T. Mukaiyama, *J. Am. Chem. Soc.* **2004**, 126, 7359.

<b>C0597</b> Chlorodiphenylphosphine	25g / 100g / 500g
<b>T0790</b> Tetrafluoro-1,4-benzoquinone	1g / 5g
<b>B0887</b> 1,4-Benzoquinone	25g / 500g
<b>D2234</b> 2,6-Dimethyl-1,4-benzoquinone	1g / 5g / 25g
<b>D2256</b> 2,6-Di- <i>tert</i> -butyl-1,4-benzoquinone	5g / 25g

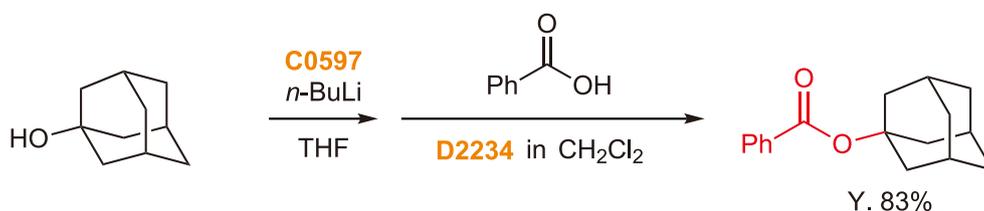
## 应用

## 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

