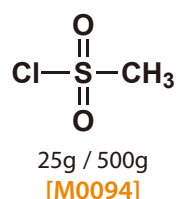


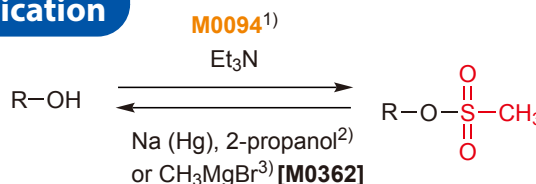
Sulfonylation Reagents

Reagents for Mesylation and Tosylation

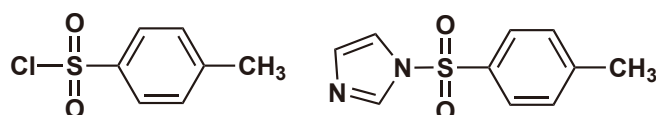
Mesyl (Ms) and tosyl (Ts) groups have great versatility, having application as both protecting groups, and for the activation of hydroxyl functionalities.



Application

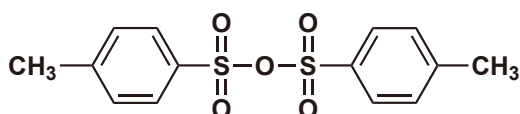


- 1) A. Fürst, F. Koller, *Helv. Chim. Acta* **1947**, 30, 1454.
2) K. T. Webster, R. Eby, C. Schuerch, *Carbohydr. Res.* **1983**, 123, 335.
3) J. Cossy, J.-L. Ranaivosata, V. Bellosta, R. Wietzke, *Synth. Comm.* **1995**, 25, 3109.



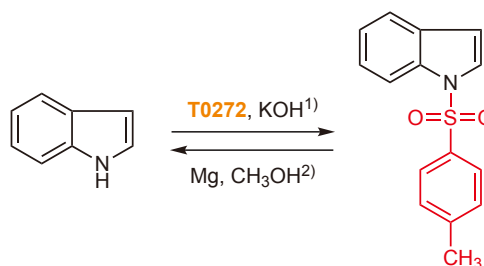
25g / 500g
[T0272]

5g / 25g
[T1985]



5g / 25g
[T1485]

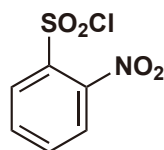
Application



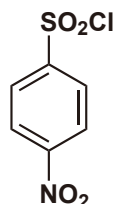
- 1) C. A. Merlic, Y. You, D. M. McInnes, A. L. Zechman, M. M. Miller, Q. Deng, *Tetrahedron* **2001**, 57, 5199.
2) B. Nyasse, L. Grehn, U. Ragnarsson, *Chem. Commun.* **1997**, 1017.

Reagents for Nosylation

Nosyl (Ns) groups are usable as both a protecting group and as an activating group of amino group.

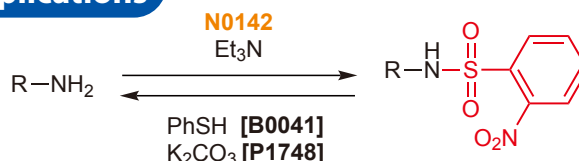


25g / 100g / 500g
[N0142]

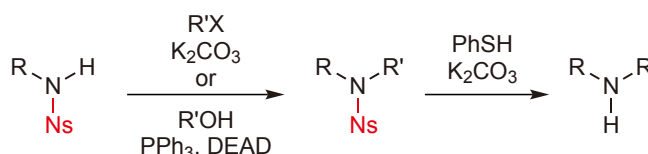


5g / 25g
[N0144]

Applications

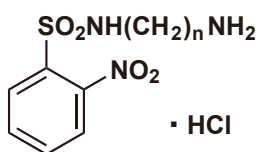


T. Fukuyama, C.-K. Jow, M. Cheung, *Tetrahedron Lett.* **1995**, 36, 6373.

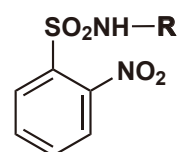


T. Kan, T. Fukuyama, *Chem. Commun.* **2004**, 353.

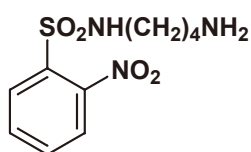
Nosylamide Derivatives



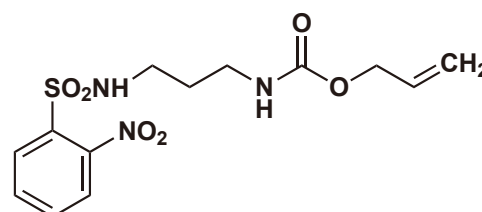
$n = 2$ 1g / 5g [A2329]
 $n = 3$ 1g / 5g [A2268]
 $n = 5$ 1g [A1661]
 $n = 9$ 1g / 5g [A1662]



$R = \text{Boc}$ 1g / 5g / 25g [B2303]
 $R = \text{Alloc}$ 5g [A1632]
 $R = \text{Cbz}$ 5g / 25g [C1757]



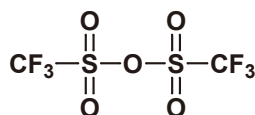
1g
[A1630]



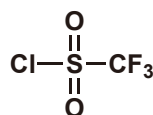
1g
[N0717]

Triflating Reagents

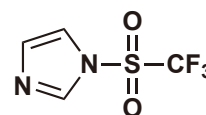
Trifluoromethanesulfonyl groups (Tf) can be used for the protection of phenolic hydroxyl groups.



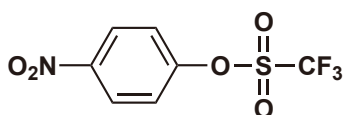
10g / 25g / 250g
[T1100]



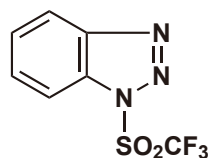
5g / 25g
[T1027]



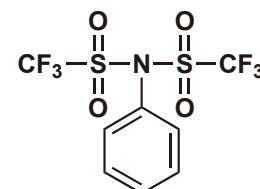
1g / 5g
[T3177]



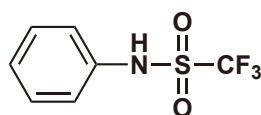
5g / 25g
[N0993]



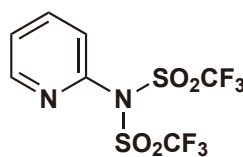
1g / 5g
[T3167]



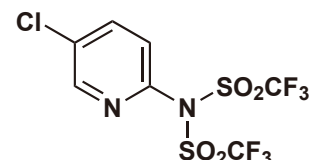
5g / 25g
[P1257]



1g / 5g
[T2985]

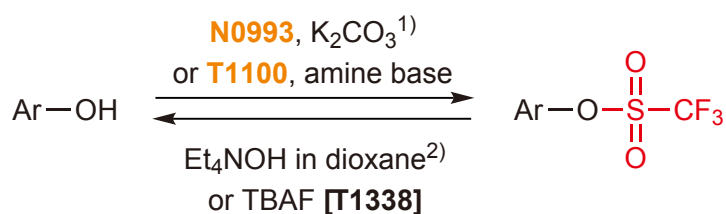


5g
[B1871]



5g / 25g
[B1865]

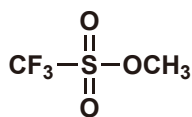
Application



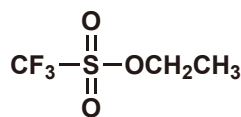
1) J. Zhu, A. Bigot, M. Elise, T. H. Dau, *Tetrahedron Lett.* **1997**, 38, 1181.
 2) T. Ohgiya, S. Nishiyama, *Tetrahedron Lett.* **2004**, 45, 6317.

Trifluoromethanesulfonic Acid Esters

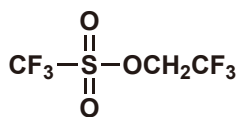
Trifluoromethanesulfonic acid esters are useful as reagents for alkylation and as substrates of various cross coupling reactions.



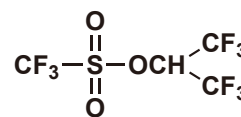
5g / 25g
[T2029]



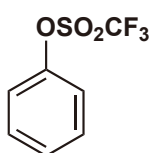
5g / 25g
[T1191]



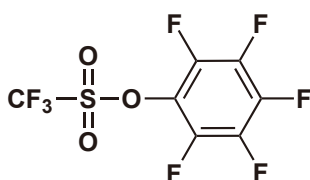
5g / 25g
[T1604]



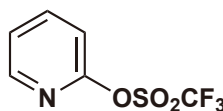
5g
[H1276]



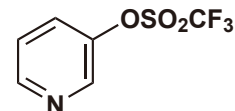
1g / 5g
[P1829]



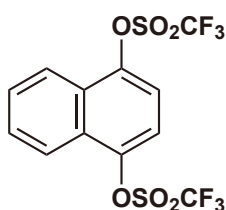
200mg / 1g
[P2188]



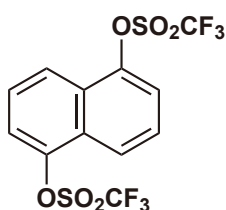
5g
[P1840]



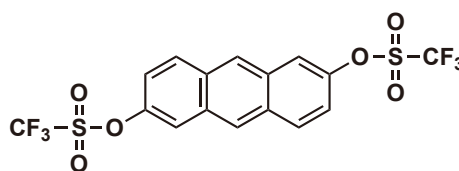
5g
[P1860]



1g / 5g
[N0934]

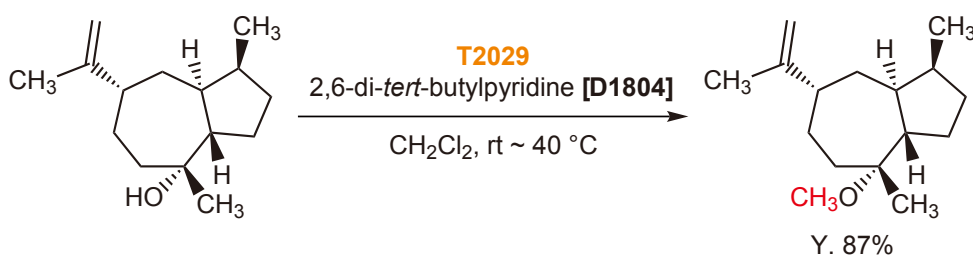


5g
[N0925]

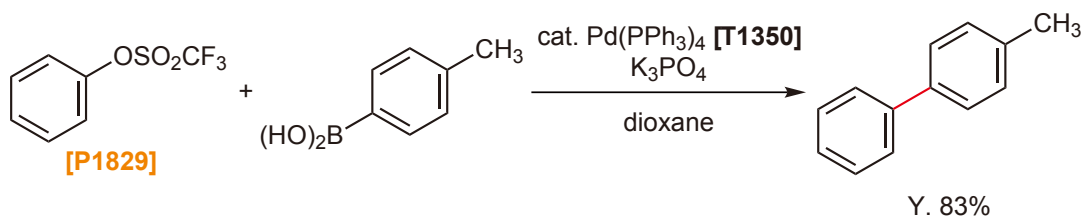


200mg / 1g
[A3127]

Applications

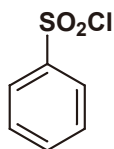


K. I. Booker-Milburn, H. Jenkins, J. P. H. Charmant, P. Mohr, *Org. Lett.* **2011**, 52, 281.

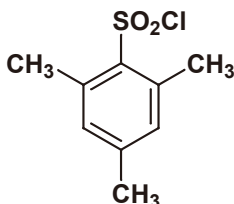


T. Ohe, N. Miyaura, A. Suzuki, *J. Org. Chem.* **1993**, 58, 2201.

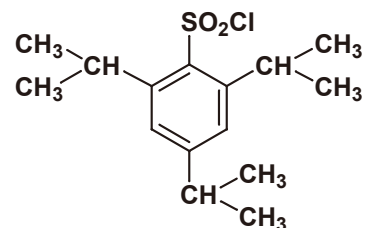
Other Reagents for Sulfonylation



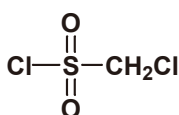
25g / 500g
[B0036]



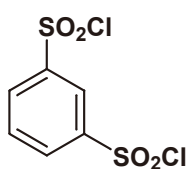
25g / 500g
[M0071]



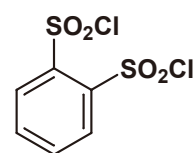
25g / 500g
[T0459]



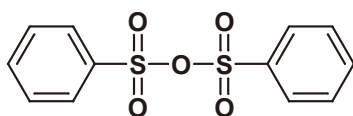
5g / 25g
[C0924]



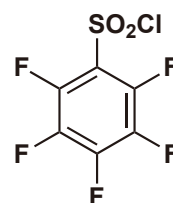
5g / 25g
[B0848]



1g / 5g / 25g
[B1128]



5g / 25g
[B1931]



5g / 25g
[P0934]

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