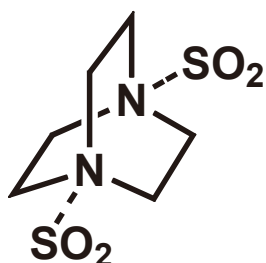
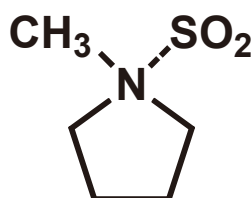


Sulfur Dioxide (SO₂) Surrogate Reagents Usable for Sulfonation



DABSO
[B3960]



TIMSO
[U0113]



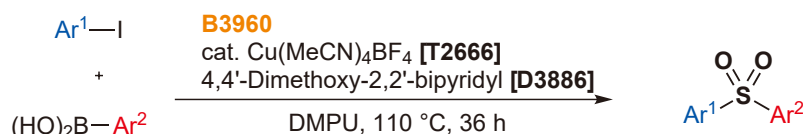
**Potassium
Disulfite**
[P2480]

Advantages

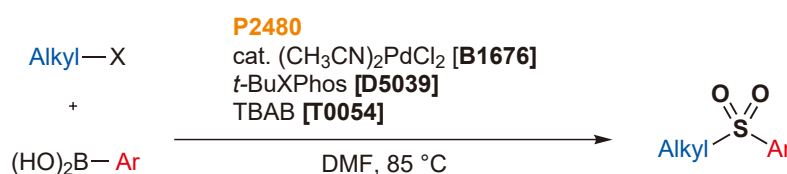
- **B3960** and **P2480** are bench-stable solids.
- **U0113** is a removable volatile liquid.
- Usable with metal catalysts.
- Applicable to the syntheses of various sulfone derivatives.

Applications 1

Sulfonation

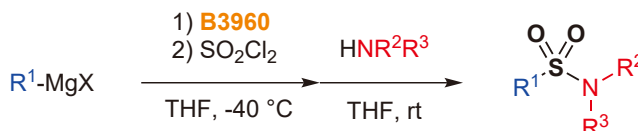


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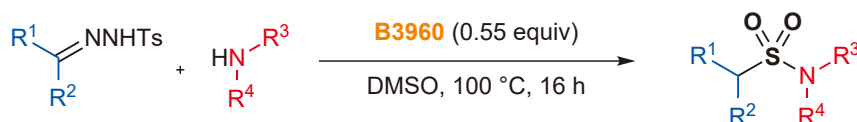


A. Shavnya, K. D. Hesp, V. Mascitti, A. C. Smith, *Angew. Chem. Int. Ed.* **2015**, 54, 3249.

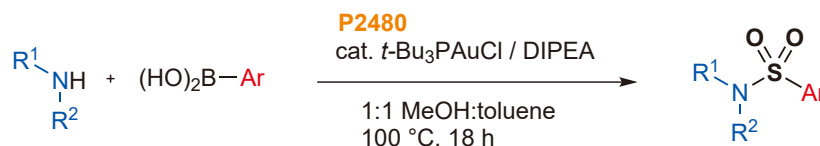
Sulfamidation



H. Woolven, C. González-Rodríguez, I. Marco, A. L. Thompson, M. C. Willis, *Org. Lett.* **2011**, 13, 4876.



A. S. Tsai, J. M. Curto, B. N. Rocke, A. R. Dechert-Schmitt, G. K. Ingle, V. Mascitti, *Org. Lett.* **2016**, 18, 508.

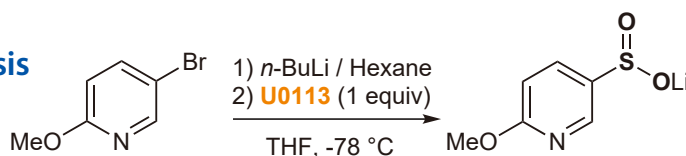


M. W. Johnson, S. W. Bagley, N. P. Mankad, R. G. Bergman, V. Mascitti, F. D. Toste, *Angew. Chem. Int. Ed.* **2014**, 53, 4404.

Sulfur Dioxide (SO₂) Surrogate Reagents Usable for Sulfonation

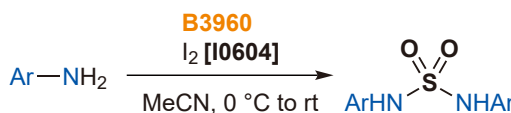
Applications 2

Lithium Sulfinatate Synthesis



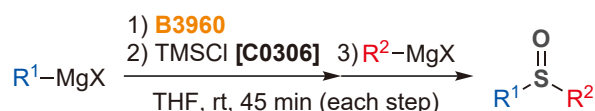
T. Markovic, B. N. Roche, D. C. Blakemore, V. Mascitti, M. C. Willis, *Chem. Sci.* **2017**, 8, 4437.

Sulfamination



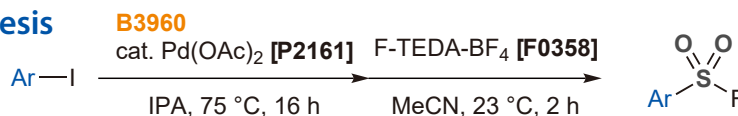
Y. Chen, M. C. Willis, *Chem. Sci.* **2017**, 3249.

Sulfoxidation



D. C. Lenstra, V. Vedovato, E. F. Flegeau, J. Maydom, M. C. Willis, *Org. Lett.* **2016**, 18, 2086.

Sulfonyl Fluoride Synthesis



A. L. Tribby, I. Rodriguez, S. Shariffudin, N. D. Ball, *J. Org. Chem.* **2017**, 82, 2294.

DABSO

TIMSO

Potassium Disulfite

1g / 5g [**B3960**]

5g / 25g [**U0113**]

25g / 500g [**P2480**]

U0113 was commercialized under instruction by Prof. Dr. Michael C. Willis, University of Oxford.

Related Products

Tetrakis(acetonitrile)copper(I) Tetrafluoroborate (= Cu(MeCN)₄BF₄)	1g / 5g / 25g [T2666]
4,4'-Dimethoxy-2,2'-bipyridyl	1g / 5g [D3886]
Bis(acetonitrile)palladium(II) Dichloride (= (CH₃CN)₂PdCl₂)	1g / 5g [B1676]
<i>t</i>BuXPhos	1g / 5g [D5039]
Tetrabutylammonium Bromide (= TBAB)	25g / 100g / 500g [T0054]
Iodine	25g / 500g [I0604]
Chlorotrimethylsilane (= TMSCl)	25mL / 100mL / 500mL [C0306]
Palladium(II) Acetate (= Pd(OAc)₂)	1g / 5g [A1424]
Palladium(II) Acetate (Purified) (= Pd(OAc)₂)	1g [P2161]
F-TEDA-BF₄	5g / 25g / 100g [F0358]

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