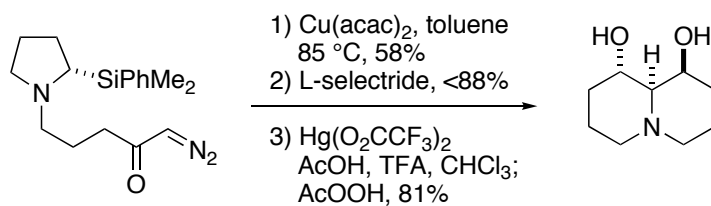


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11/02/2004

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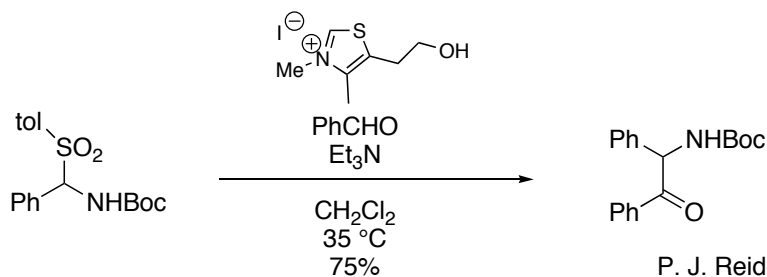


85% ee

\* Product of 1) was found to be 77% ee.

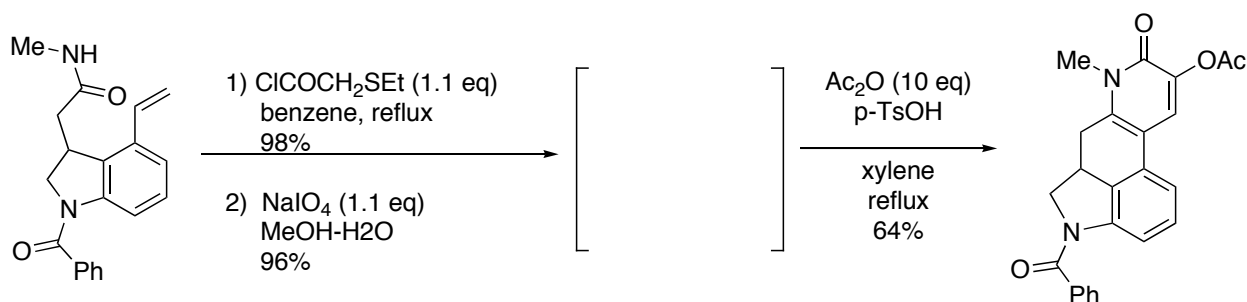
F. G. West *et al.*, *Org. Lett.*, **4**, 2813 (2002)

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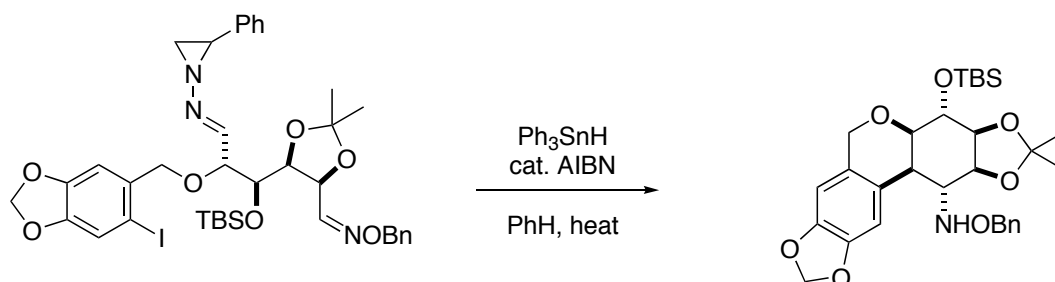
P. J. Reider *et al.*, *Chemtracts* **16**, 579 (2003)

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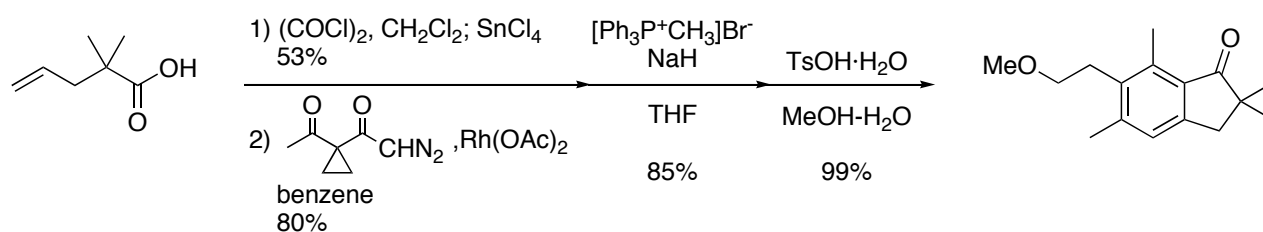
A. Padwa *et al.*, *J. Org. Chem.* **65**, 2368 (2000)

4



G. E. Keck *et al.*, *J. Org. Chem.* **63**, 9164 (1998)

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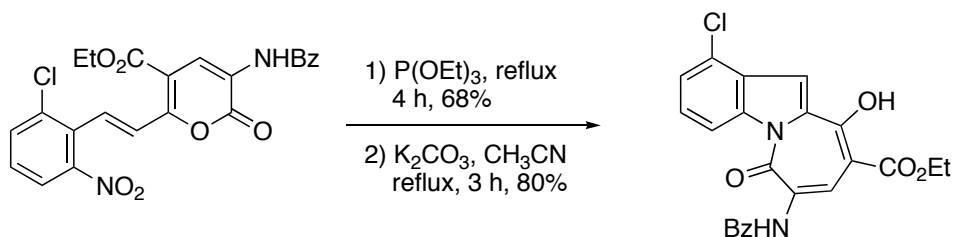


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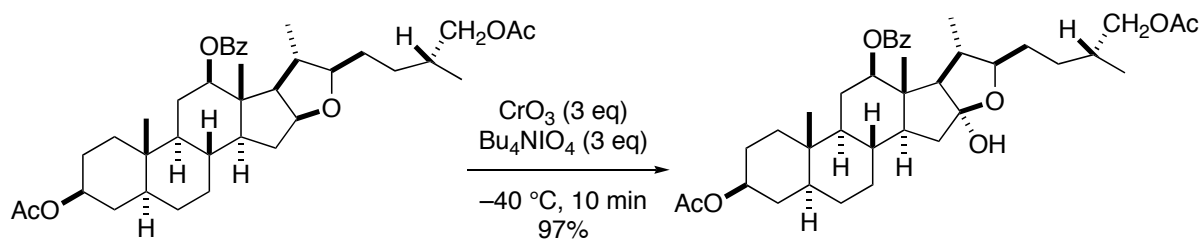
11/09/2004

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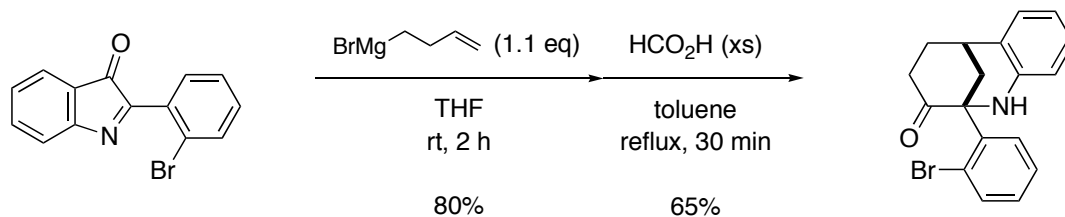
M. L. Gelmi *et al.*, *J. Chem. Soc. Perkin Trans. 1*, 969 (1993)

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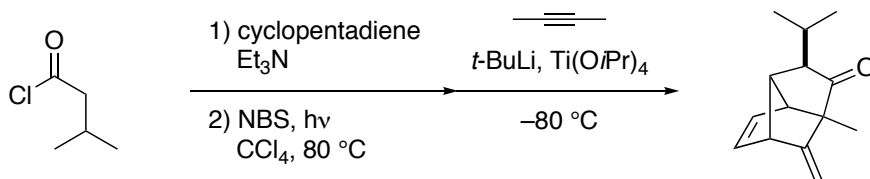
P. L. Fuchs, *Org. Lett.*, **6**, 1437 (2004)

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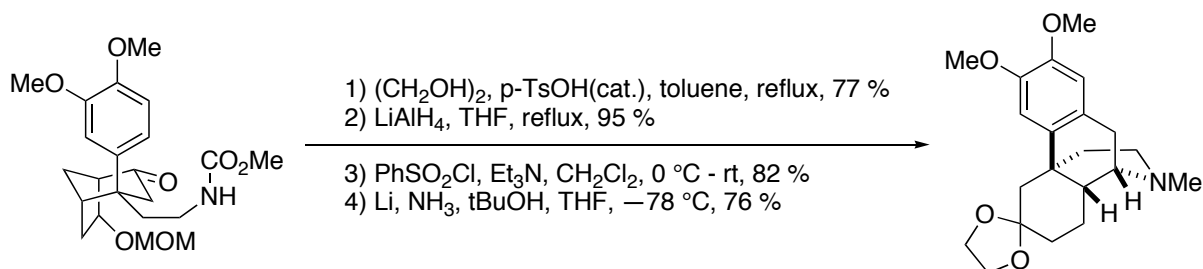
W. W. McWhorter, Jr., *et al.*, *Org. Lett.*, **5**, 333 (2003)

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R. Sigrist *et al.*, *J. Chem. Soc. Chem. Commun.*, 944 (1986)

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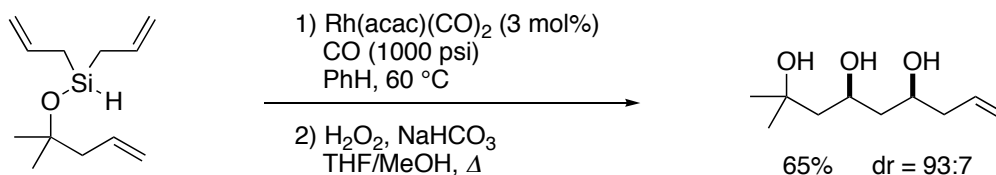


K. Ogasawara *et al.*, *Org. Lett.*, **4**, 4515 (2002)

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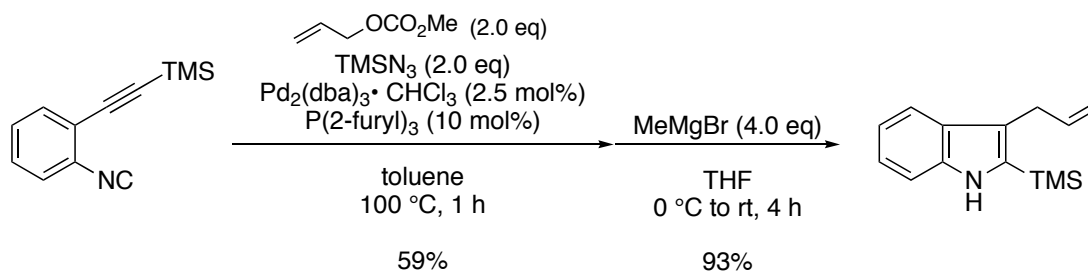
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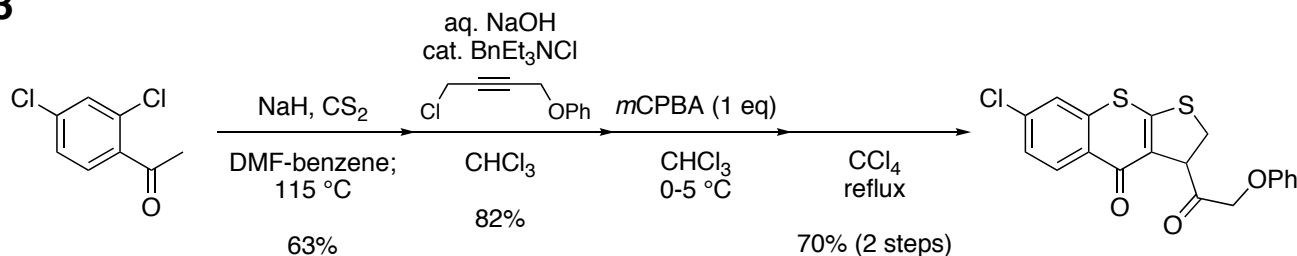
J. L. Leighton *et al.*, *Tetrahedron*, **59**, 8889 (2003)

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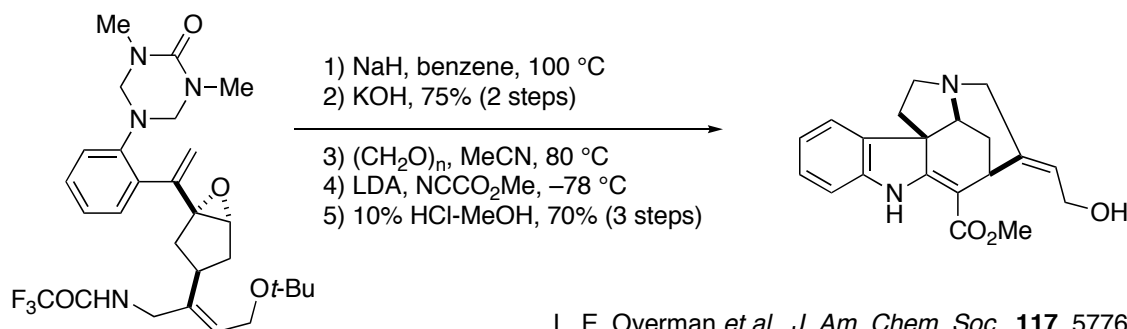
Y. Yamamoto *et al.*, *J. Am. Chem. Soc.*, **124**, 11940 (2002)

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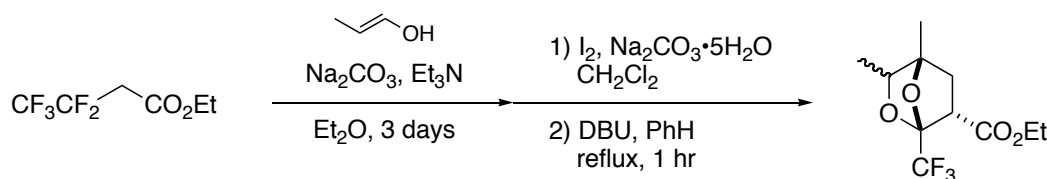
K. C. Majumdar *et al.*, *Synth. Commun.*, **34**, 2159 (2004)

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L. E. Overman *et al.*, *J. Am. Chem. Soc.*, **117**, 5776 (1995)

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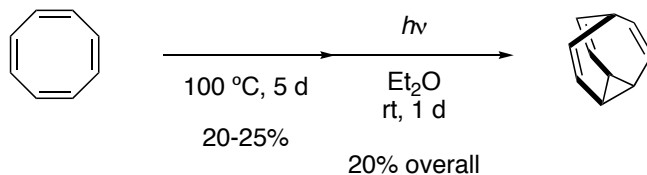
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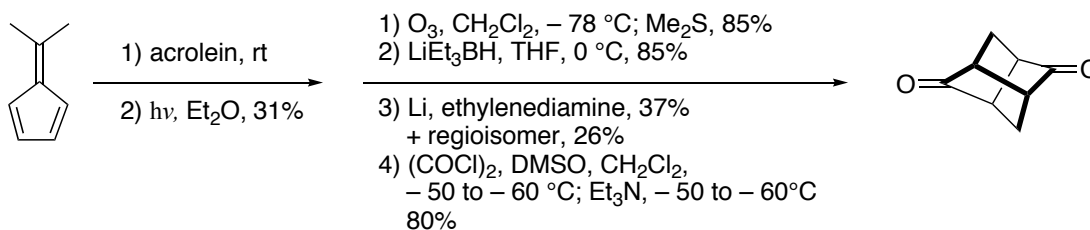
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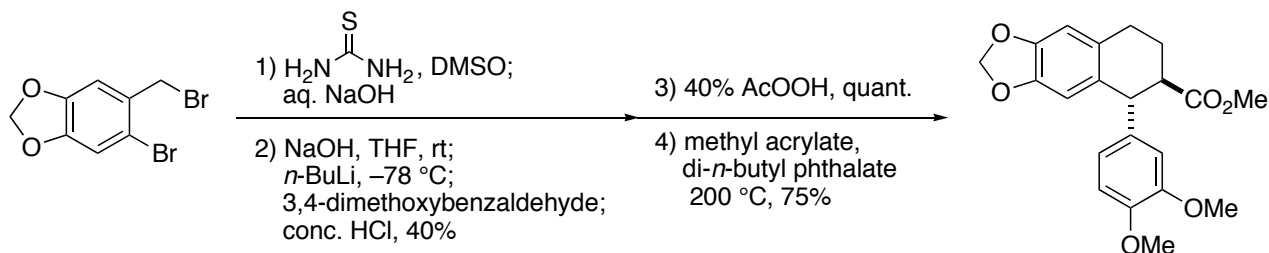
Schroder, G. *et al.*, *Angew. Chem. Int. Ed.*, **2**, 481 (1963)  
J. F. M. Oth *et al.*, *Angew. Chem. Int. Ed.*, **6**, 414 (1967)

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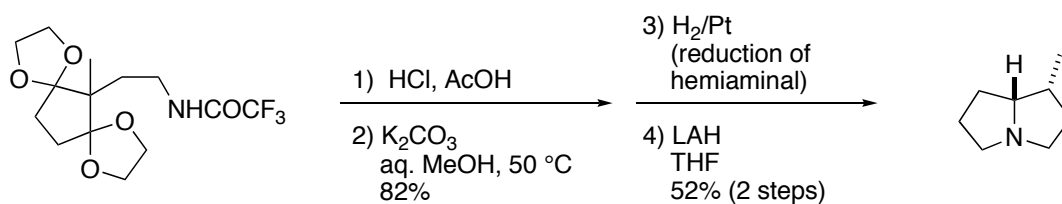
R. Gleiter, *Eur. J. Org. Chem.*, 171 (1998)

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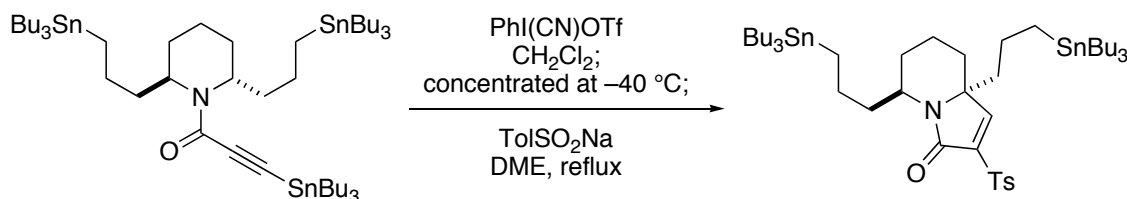
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Y. Ban *et al.*, *Tetrahedron. Lett.*, 4249 (1983)

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K. S. Feldman *et al.*, *J. Org. Chem.*, **69**, 7928 (2004)