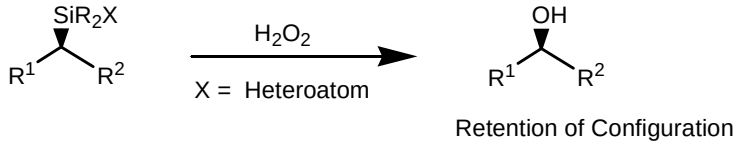
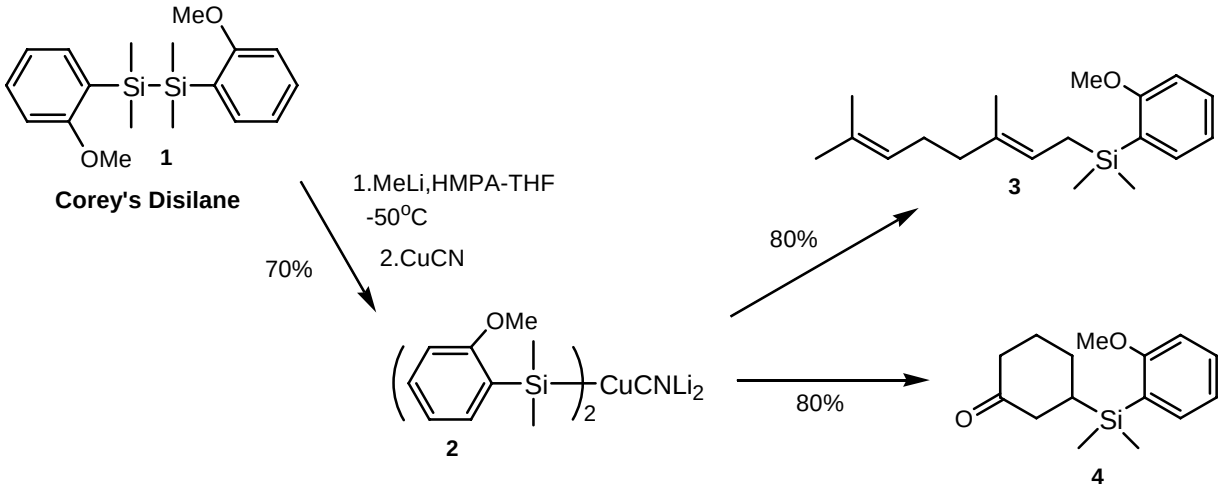
COREY'S DISILANE

Silylcuprates have been developed as versatile synthetic reagents for the introduction of silyl groups onto carbon frameworks. [1] One important application is the use of the phenyldimethylsilyl group as a masked hydroxy functionality via the use of the Tamao-Fleming oxidation reaction. [2]

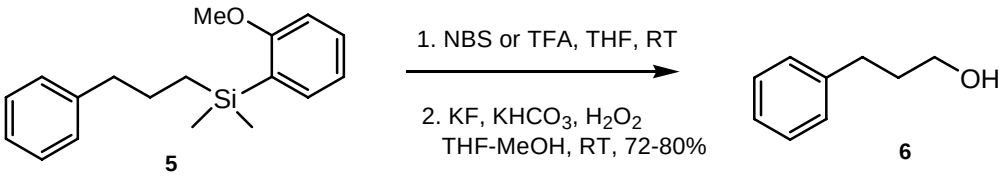


Tamao-Fleming Oxidation

Professor Corey and co-workers[3] have recently developed a new disilane (1) capable of forming the required (2-methyoxyphenyl)dimethylsilylcuprate (2) *in situ* which reacts with cyclohexenone and allylic benzoates to give the desired coupled products (3) and (4) .[3,4]



The advantage of the (2-methyoxyphenyl)dimethylsilyl group over the parent phenyldimethylsilyl group is that the former can be converted (*via* the Tamao-Fleming oxidation reaction) to a hydroxyl group under much milder conditions as demonstrated for the conversion of (5) to (6). [3,4]



References

(1) Fleming, I. In Organocopper Reagents; Taylor, R. J. K. Ed.; Oxford University Press: Oxford, 1994; pp 257-292
(2) Jones, G R.; Landais, Y. *Tetrahedron*, 1996, *52*, 7599.
(3) Lee, T.W.; Corey, E.J. *Org. Lett.,* 2001, *3*, 3337.
(4) Lee, T.W.; Corey, E.J. *J. Am. Chem. Soc.,* 2001, *123*, 1872.

B07-S082-5G	Bis(2-Methoxyphenyl)-1,1,2,2-tetramethyldisilane [332343-84-7]	5g	US$160
B07-S082-20G	Bis(2-Methoxyphenyl)-1,1,2,2-tetramethyldisilane [332343-84-7]	20g	US$470
B07-S082-100G	Bis(2-Methoxyphenyl)-1,1,2,2-tetramethyldisilane [332343-84-7]	100g	Enquire

For a full listing of disilane reagents, visit www.amtechpl.com.

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V1.0 First Produced: 22 March 2007
V1.1 This version: 17 April 2007