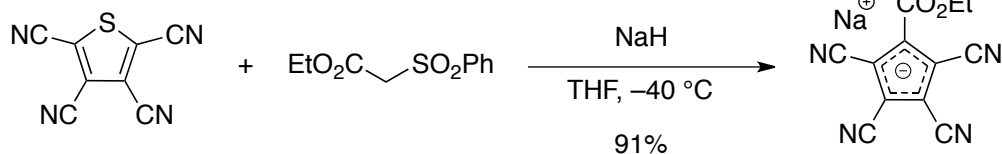
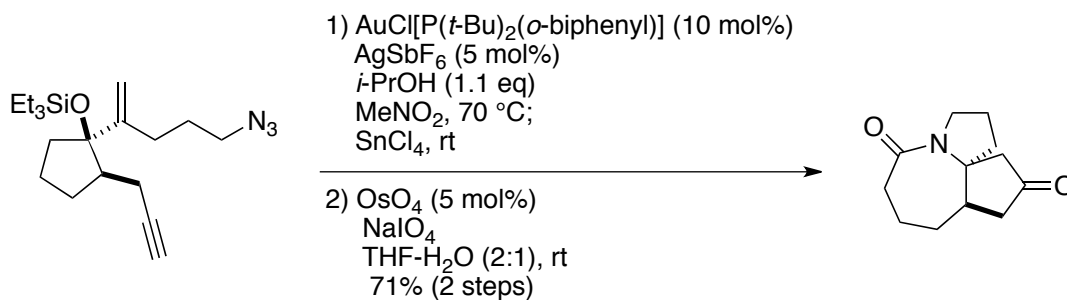


Name

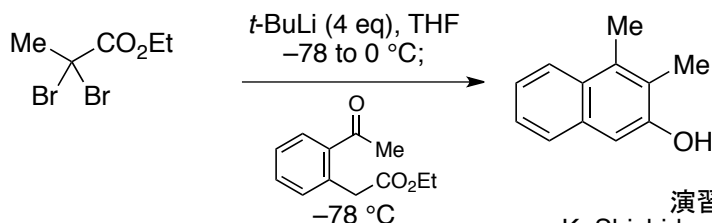
1.

T. Sakai *et al.*, *J. Org. Chem.*, **78**, 10078 (2013)

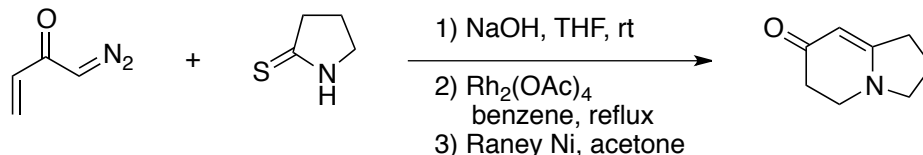
2.

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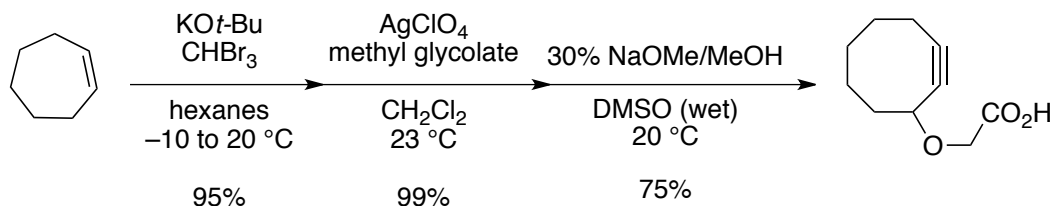
3.

演習で学ぶ有機反応機構C45 (化学同人)  
K. Shishido *et al.*, *J. Org. Chem.*, **66**, 7818 (2001)

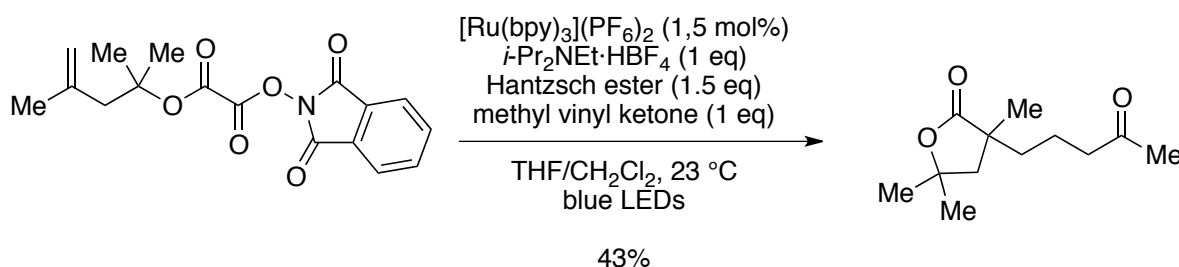
4.

演習で学ぶ有機反応機構C74 (化学同人)  
S. J. Danishefsky *et al.*, *Tetrahedron Lett.*, **30**, 3625 (1989)

5.

M. Burk *et al.*, *Org. Proc. Res. Dev.*, **22**, 108 (2018)

6.

bpy = 2, 2'-bipyridyl  
Hantzsch ester = diethyl 2, 6-dimethyl-1, 4-dihydropyridine-3, 5-dicarboxylateL. E. Overman *et al.*, *J. Am. Chem. Soc.*, **135**, 15342 (2013)