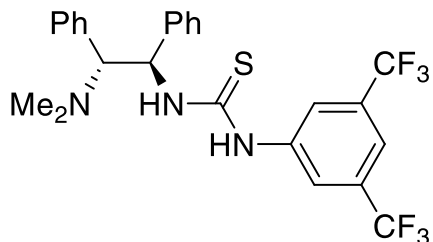
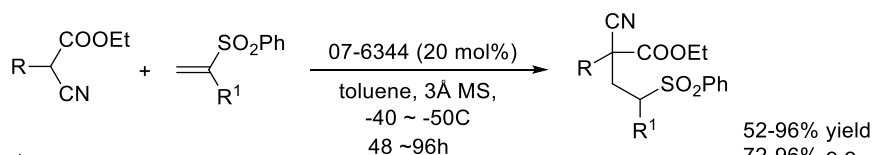


Catalog # 07-6344 N-[3,5-Bis(trifluoromethyl)phenyl]-N'-[(1R,2R)-2-(dimethylamino)-1,2-diphenylethyl]thiourea, 95%, (99% ee)



Technical Notes:

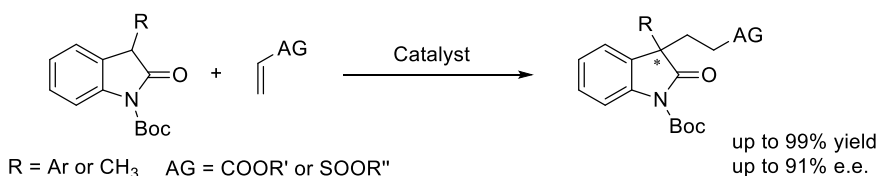
1. Michael Addition- highly enantioselective catalysts for the Michael addition of α -substituted cyanoacetates to vinyl sulfones, giving an efficient protocol for the construction of an all-carbon substituted quaternary stereocentre.
2. Asymmetric catalysis of chiral oxindoles bearing 3-position all-carbon quaternary stereocenters.
3. The enantioselective Michael addition of dialkyl phosphites to N-unprotected isatylidene malononitriles.
4. Aldol Reaction- The first example of a direct catalytic asymmetric intermolecular aldol reaction of 3-isothiocyanato oxindoles to simple ketones.
5. Cascade Aldol-Cyclization- A highly efficient method for the construction of a family of spiro[oxazolidine-2-thione-oxindoles] with 3-isothiocyanato oxindoles and aldehydes via a cascade aldol-cyclization.



For R = aryl R¹ = H

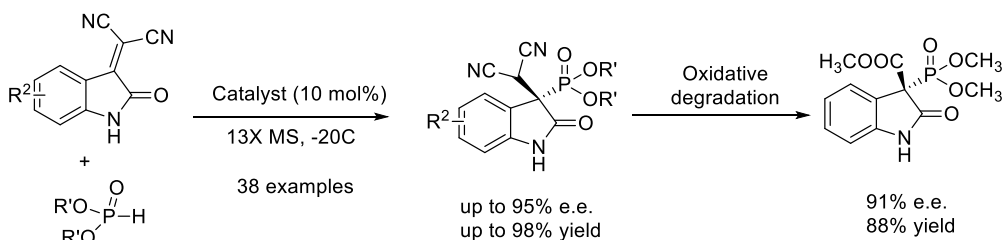
For R = aryl R¹ = SO₂Ph

Tech Note (1)
Ref. (1)

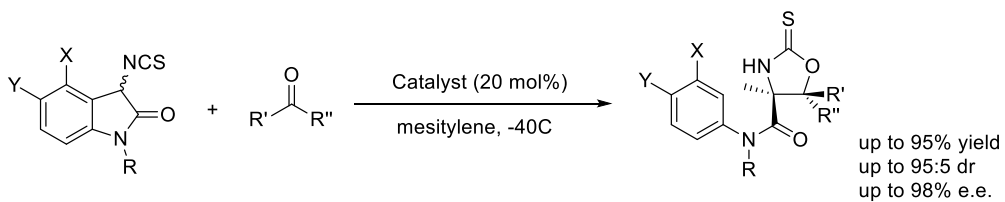


R = Ar or CH₃ AG = COOR' or SOOR''

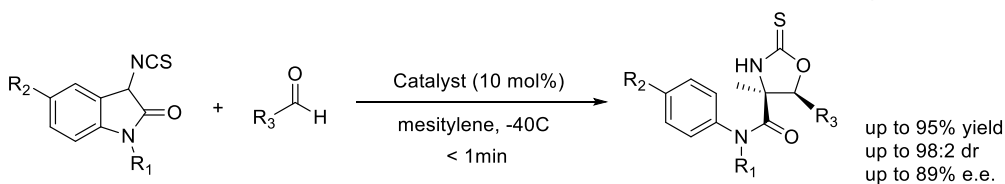
Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Tech Note (4)
Ref. (4)



Tech Note (5)
Ref. (5)

References:

1. *Org. Biomol. Chem.*, **2006**, *4*, 2097-2099.
2. *Org. Biomol. Chem.*, **2010**, *8*, 77-82.
3. *Tetrahedron*, **2014**, *70*, 2406-2415.
4. *Org. Lett.*, **2011**, *13*, 2472-2475.
5. *Tetrahedron*, **2013**, *69*, 5281-5286.