The trifluoromethylthio group has attracted attention as a potentially-significant functional group in the pharmaceutical and agrochemical fields because of its strong electron-withdrawing effect and high lipophilicity.

**Shibata Reagent II**

1g / 5g

**N-(Trifluoromethylthio)-phthalimide**

1g / 5g

**N-Methyl-N-[(trifluoromethyl)thio]-p-toluenesulfonamide**

1g / 5g

**N-Methyl-N-(trifluoromethylthio)aniline**

200mg / 1g

**New**

**M2782**

CuI (10 mol%)  
4,4’-Dimethyl-2,2’-bipyridine (20 mol%)  
H2O  
in diglyme, rt


**T3143**

CuCl (10 mol%)  
bpy (20 mol%)  
K2CO3 (2.0 eq.)  
in DME, 45°C

**M. Rueping et al., Angew. Chem. Int. Ed. 2014, 53, 1650.**

**P2143**

CuCl (20 mol%)  
PhNMe2 (20 mol%)  
in Dioxane, rt

**N. Shibata et al., J. Am. Chem. Soc. 2013, 135, 8782.**

**R2**

CuCl (20 mol%)  
PhNMe2 (20 mol%)  
in Dioxane, rt


**T3143**

CuCl (10 mol%)  
bpy (20 mol%)  
K2CO3 (2.0 eq.)  
in DME, 45°C

**T. Billard et al., Angew. Chem. Int. Ed. 2013, 52, 10814.**

**M2595**

CuF2 (20 mol%)  
in DMAc, rt

**N. Shibata et al., Org. Lett. 2015, 7, 1063.**

**M2595**

CuI (10 mol%)  
4,4’-Dimethyl-2,2’-bipyridine (20 mol%)  
H2O  
in diglyme, rt


**M2595**

CuF2 (20 mol%)  
in DMAc, rt

**N. Shibata et al., Org. Lett. 2015, 7, 1063.**

**M2595**

CuI (10 mol%)  
4,4’-Dimethyl-2,2’-bipyridine (20 mol%)  
H2O  
in diglyme, rt

Trifluoromethylthiolation Reagents

**CF₃SCu**

Copper(I) Trifluoromethanethiolate

1g / 5g

[P1693]

**CF₃SAg**

Silver(I) Trifluoromethanethiolate

1g / 5g

[S0977]

For further information please refer to our website at www.TCIchemicals.com.