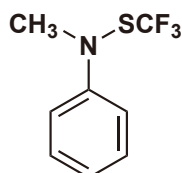


# Trifluoromethylthiolation & Trifluoromethylation

## Trifluoromethylthiolating Reagents



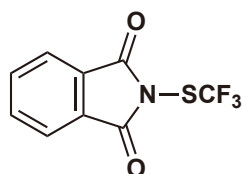
**N-Methyl-N-(trifluoromethylthio)aniline**  
200mg / 1g

**New** [M2595]



R = Aryl, Alkyl

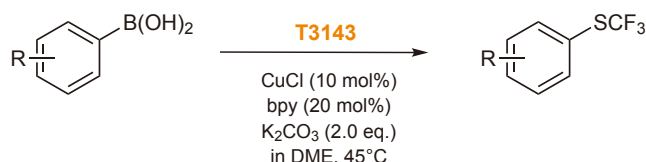
T. Billard, et. al., *Angew. Chem. Inter. Ed.* **2012**, 51, 10382.



**N-(Trifluoromethylthio)phthalimide**

1g / 5g

**New** [T3143]



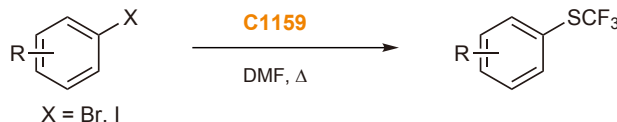
M. Rueping, et. al., *Angew. Chem. Inter. Ed.* **2014**, 53, 1650.



**Copper(I) Trifluoromethanethiolate**

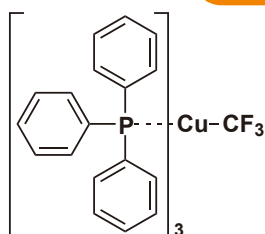
1g / 5g

[C1159]



M. B. Freedman, et. al., *J. Org. Chem.* **1976**, 41, 1644.

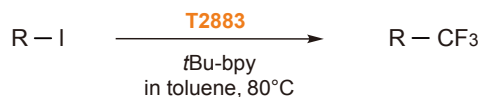
## Trifluoromethylating Reagents



**(Trifluoromethyl)-tris(triphenylphosphine)copper(I)**

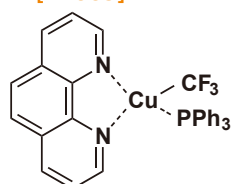
1g / 5g

[T2883]



R = Aryl, Pyridine

V. V. Grushin, et. al., *Angew. Chem. Inter. Ed.* **2011**, 50, 7655.



**(1,10-Phenanthroline)-(trifluoromethyl)-(triphenylphosphine)copper(I)**

1g / 5g

**New** [P2172]

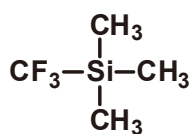


R = Aryl, Pyridine

V. V. Grushin, et. al., *Angew. Chem. Inter. Ed.* **2011**, 50, 7655.

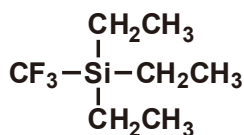
# Trifluoromethylthiolation & Trifluoromethylation

## Other Trifluoromethylating Reagents



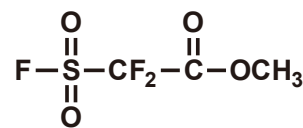
**(Trifluoromethyl)trimethylsilane  
(Ruppert-Prakash Reagent)**

5g / 25g  
[T1570]



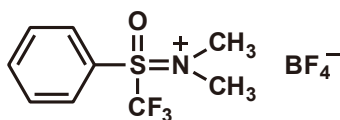
**Triethyl(trifluoromethyl)silane**

1g / 5g  
[T2764]



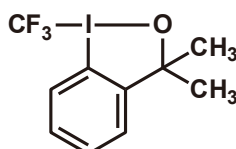
**Methyl Fluorosulfonyl-  
difluoroacetate**

5g / 25g  
[F0311]



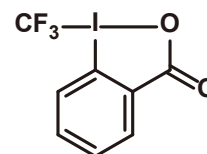
**Shibata Reagent I**

200mg / 1g  
[O0367]



**Togni Reagent**

1g / 5g  
[T2624]



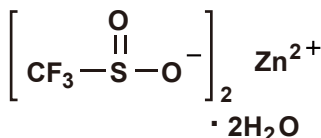
**Togni Reagent II**

(contains 60% Diatomaceous earth)  
1g / 5g  
[T3014]



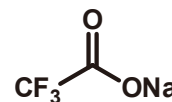
**Sodium Trifluoromethanesulfinate  
(Langlois Reagent)**

5g / 25g  
[T2033]



**Zinc(II) Bis(trifluoromethanesulfinate)  
Dihydrate**

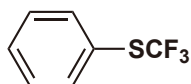
1g / 5g  
[Z0028]



**Sodium Trifluoroacetate**

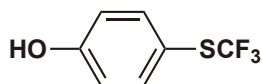
25g / 100g / 500g  
[T1336]

## Trifluoromethylthiolated Building Blocks



**(Trifluoromethylthio)-  
benzene**

25g  
[P1693]



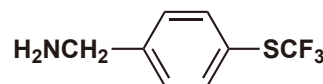
**4-(Trifluoromethylthio)-  
phenol**

5g / 25g  
[T2458]



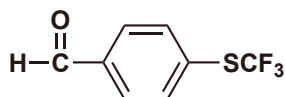
**4-(Trifluoromethylthio)-  
aniline**

5g / 25g  
[T2775]



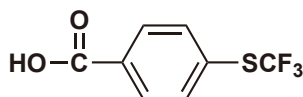
**4-(Trifluoromethylthio)-  
benzylamine**

5g / 25g  
[T2763]



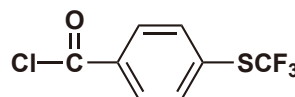
**4-(Trifluoromethylthio)-  
benzaldehyde**

5g / 25g  
[T2405]



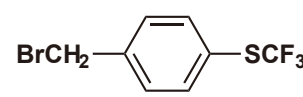
**4-(Trifluoromethylthio)-  
benzoic Acid**

5g / 25g  
[T2390]



**4-(Trifluoromethylthio)-  
benzoyl Chloride**

5g / 25g  
[T2745]



**4-(Trifluoromethylthio)-  
benzyl Bromide**

1g / 5g  
[T2391]

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

trifluoromethylthiolation or trifluoromethylation



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