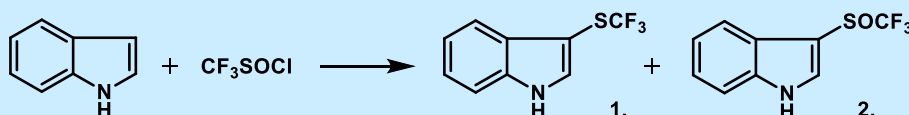


# Trifluoromethanesulfinyl Chloride

## CF<sub>3</sub>SOCl

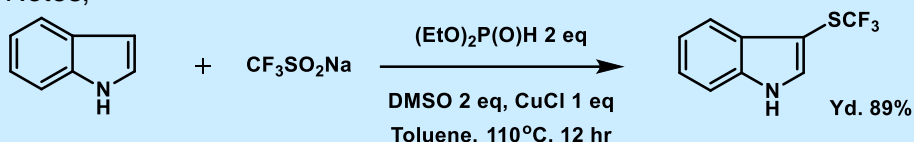
<b>Purity</b>	97%
<b>CAS Number</b>	20621-29-8
<b>Molecular Formula</b>	CClF <sub>3</sub> OS
<b>Molecular Weight</b>	152.52

Thiotrifluoromethylation, which has excellent lipophilicity, is expected to have unexplored pharmacological effects in pharmaceuticals and agricultural chemicals. Compared to thiotrifluoromethylation of indole with CF<sub>3</sub>SO<sub>2</sub>Na, heavy metal reagents such as CuCl are unnecessary, realizing a homogeneous reaction system. Compared to N-SCF<sub>3</sub> series thiotrifluoromethylating agents, it has the advantage of not requiring expensive CF<sub>3</sub>Sg or CF<sub>3</sub>Si(Me)<sub>3</sub> during reagent preparation.


**Application**

No.	CF <sub>3</sub> SOCl	Solvent	Reductant 1.5 eq	1/2 (%)
#1	1.5 eq	MeCN	PPh <sub>3</sub>	86/5
#2	3.0 eq	MeCN	-	83/8
#3	1.5 eq	MeCN	HP(O)(OEt) <sub>2</sub>	36/9

Reaction condition; indole(0.2mmol), Solvent 1ml, under N<sub>2</sub>, 90degC for 6hr  
Notes;



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*Organic & Biomolecular Chemistry, 2016, 14, p7150-7182*

**Properties:**

<b>Appearance</b>	Liquid
<b>Boiling point, °C</b>	42-43
<b>Flash point, °C</b>	-

**Capacity:**

-

**Packing:**

-

**UN, PG:**

-