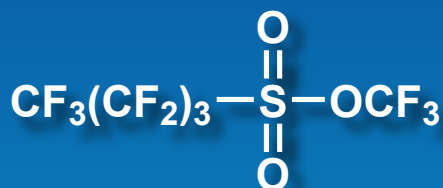


# Safe and Easy-to-handle Trifluoromethoxylating Agent TFNf

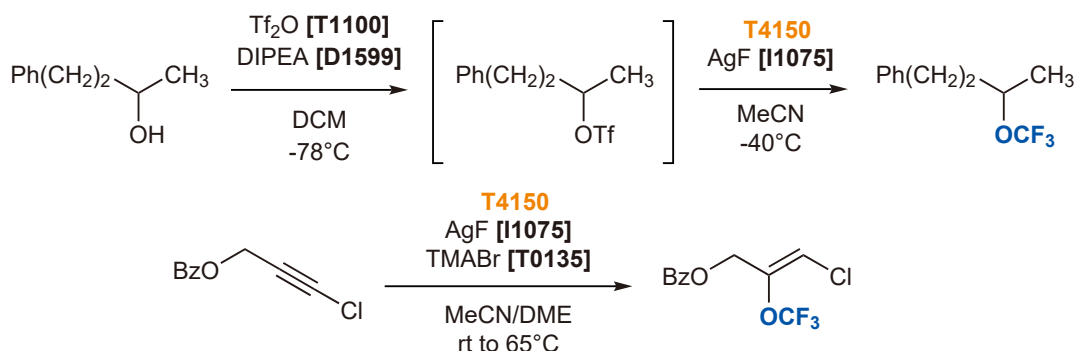


Trifluoromethyl Nonafluoro-  
1-butanesulfonate  
(= TFNf)  
1g / 10g  
[T4150]

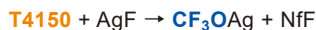
## Advantages

- Safe, easy-to-handle and stable liquid
- A practical generator of active  $\text{CF}_3\text{O}$  anion species
- Enables trifluoromethoxylation of electrophilic substrates; alkyl halides and triflates, unsaturated and aromatic compounds
- Useful for synthesis of biologically active compounds and drug discovery studies

## Applications



In the above reactions, first **T4150** reacted with AgF to generate an active  $\text{CF}_3\text{O}$  anion species.



References Z. Lu, T. Kumon, G. B. Hammond, T. Umamoto, *Angew. Chem. Int. Ed.* **2021**, *60*, 16171. <https://doi.org/10.1002/anie.202104975>  
F. Qing, P. Tang, *et al.*, *CCS Chem.* **2022**, *4*, 2518. <https://doi.org/10.31635/ccschem.022.202201935>

## Related Products

Silver(I) Fluoride

5g / 25g [I1075]

$\text{Tf}_2\text{O}$  (= Trifluoromethanesulfonic Anhydride)

10g / 25g / 250g [T1100]

DIPEA (= *N,N*-Diisopropylethylamine)

25mL / 100mL / 500mL [D1599]

TMABr (= Tetramethylammonium Bromide)

25g / 500g [T0135]

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