

New

CHEMISTRY

TCI

Organocatalyst for Electrophilic Halogenation of Aromatic Compounds under Mild Conditions



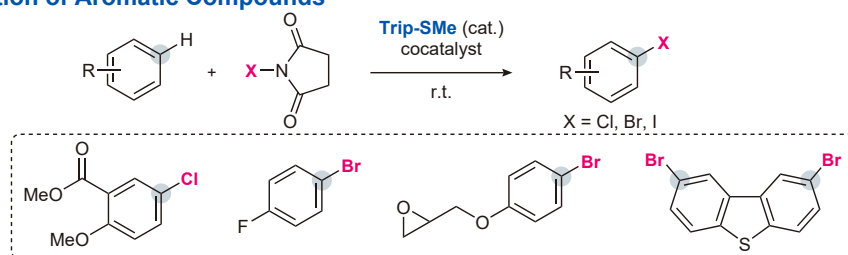
Trip-SMe
100mg / 1g
[D6031]

Advantages

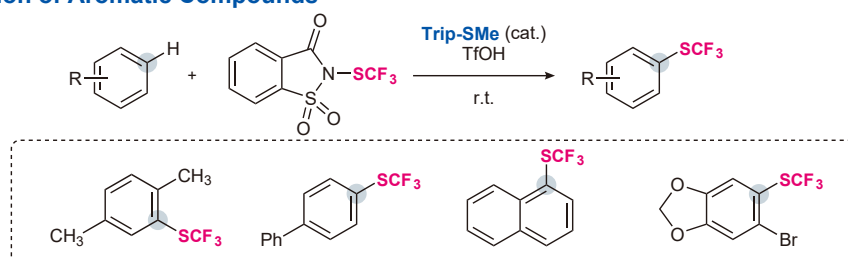
- Triptycene-based Lewis base catalyst.
- Efficiently catalyzes halogenation of various aromatic compounds using *N*-halosuccinimide and cocatalyst (AgSbF_6 , AgBF_4 , TfOH , $\text{In}(\text{OTf})_3$ etc.).
- The halogenation proceeds regioselectively under mild conditions (room temperature, neutral).
- Also catalyzes trifluoromethylthiolation of aromatic compounds.²⁾

Applications

Electrophilic Halogenation of Aromatic Compounds¹⁾



Trifluoromethylthiolation of Aromatic Compounds²⁾



References 1) Y. Nishii, M. Ikeda, Y. Hayashi, S. Kawauchi, M. Miura, *J. Am. Chem. Soc.* **2020**, *142*, 1621. <https://doi.org/10.1021/jacs.9b12672>
2) R. Kurose, Y. Nishii, M. Miura, *Org. Lett.* **2021**, *23*, 2380. <https://doi.org/10.1021/acs.orglett.1c00727>

Related Products

***N*-Chlorosuccinimide**
***N*-Bromosuccinimide**
***N*-Iodosuccinimide**

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25g / 100g / 500g [B0656]
5g / 25g / 100g [I0074]

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