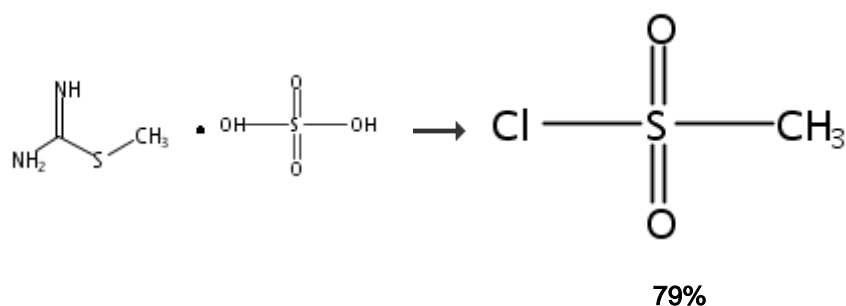


## 2. Single Step

[Overview](#)

## Steps/Stages

1.1 R:*t*-BuOCl, R:H<sub>2</sub>O, S:MeCN, 0-20°C; 30 min, 0-20°C

## Notes

5 mmol scale, green chemistry, Reactants: 1, Reagents: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

## References

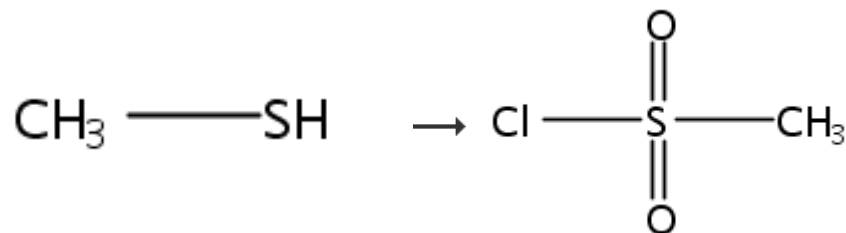
[tert-Butyl Hypochlorite Mediated Oxidative Chlorination of S-Alkylisothiurea Salts: Synthesis of Sulfonyl Chlorides](#)

By Qiu, Kui and Wang, Rennan

From Synthesis, 47(20), 3186-3190; 2015

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## 4. Single Step

[Overview](#)

## Steps/Stages

1.1 R:Cl<sub>2</sub>, S:H<sub>2</sub>O, 5-10°C

## Notes

alternative reaction conditions shown, Reactants: 1, Reagents: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

## References

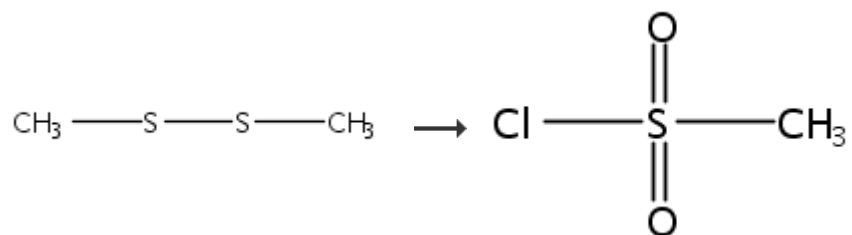
[Process for continuous preparation of methanesulfonyl chloride](#)

By Liu, Xiaomin and Liang, Jianguo

From Faming Zhuanli Shenqing, 103787930, 14 May 2014

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## 5. Single Step



## Overview

### Steps/Stages

- 1.1 R:HCl, S:H<sub>2</sub>O, rt → 15°C  
 1.2 R:MnO<sub>2</sub>, 15°C → 50°C; 8 h, 50°C

### Notes

Reactants: 1, Reagents: 2, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

### References

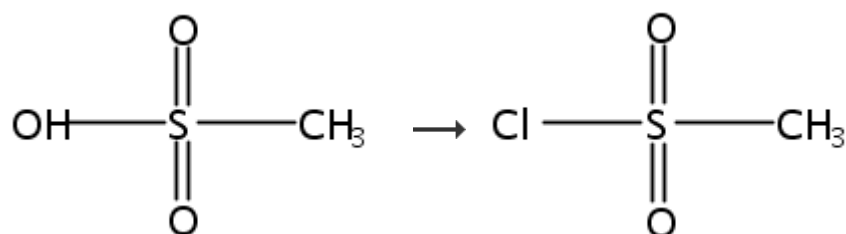
[Preparation of methanesulfonic acid by recycling byproduct of hydrochloric acid](#)

By Zeng, Dantian and Wang, Zhijun

From Faming Zhuanli Shenqing, 103641748, 19 Mar 2014

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### 6. Single Step



## Overview

### Steps/Stages

- 1.1 R:SOCl<sub>2</sub>, S:AcOEt, rt; 2 h, 45°C

### Notes

Reactants: 1, Reagents: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

### References

[Process for preparation of methanesulfonyl azide](#)

By Zhang, Fucheng

From Faming Zhuanli Shenqing, 103553987, 05 Feb 2014

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