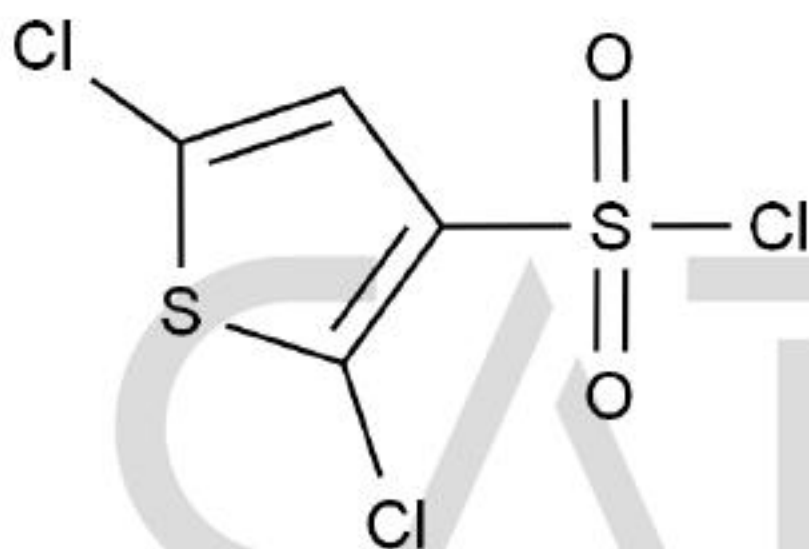


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                               |                   |                                           |
|--------------------|---------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | 2,5-Dichlorothiophene-3-sulfonyl chloride                     | Catalogue Number: | CCHM703061                                |
| Synonyms:          | N/A                                                           | Lot Number:       | 1123-SA-7910                              |
| CAS Number:        | 56946-83-9                                                    | Expiry Date:      | Nov 22, 28                                |
| Molecular Formula: | C <sub>4</sub> HCl <sub>2</sub> O <sub>2</sub> S <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 251.54                                                        |                   |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.960%   |
| Uncertainty     |                   | ±2.0%     |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

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Reviewed by:

Yuki

Approved by General Manager:

David

Date: Nov 23, 24

Date: Nov 23, 24

Date: Nov 23, 24



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## Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | Nov 23, 24 | First release.      |

