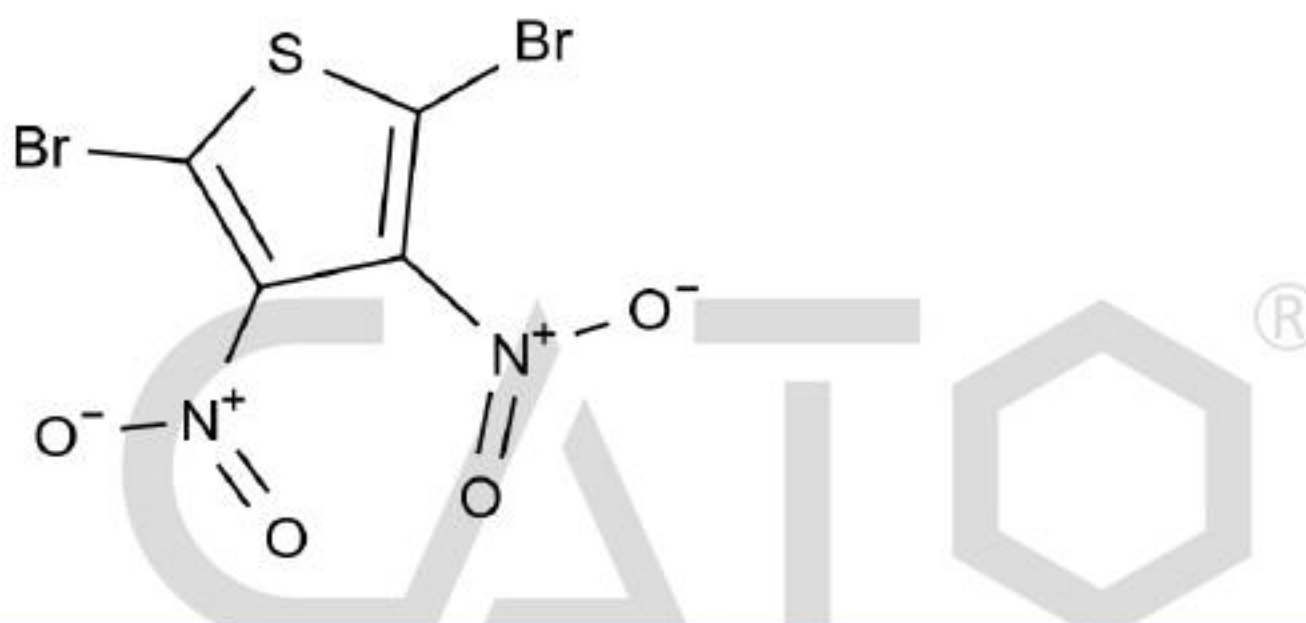


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                |                   |                                           |
|--------------------|----------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | 2,5-Dibromo-3,4-dinitrothiophene                               | Catalogue Number: | CIM-105510                                |
| Synonyms:          | N/A                                                            | Lot Number:       | 0912-SA-7312                              |
| CAS Number:        | 52431-30-8                                                     | Expiry Date:      | Sep 12, 27                                |
| Molecular Formula: | C <sub>4</sub> Br <sub>2</sub> N <sub>2</sub> O <sub>4</sub> S | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 331.93                                                         |                   |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.243%   |
| 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:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Sep 12, 25

Date: Sep 12, 25

Date: Sep 12, 25



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



Official WeChat

## 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           | Sep 12, 25 | First release.      |

