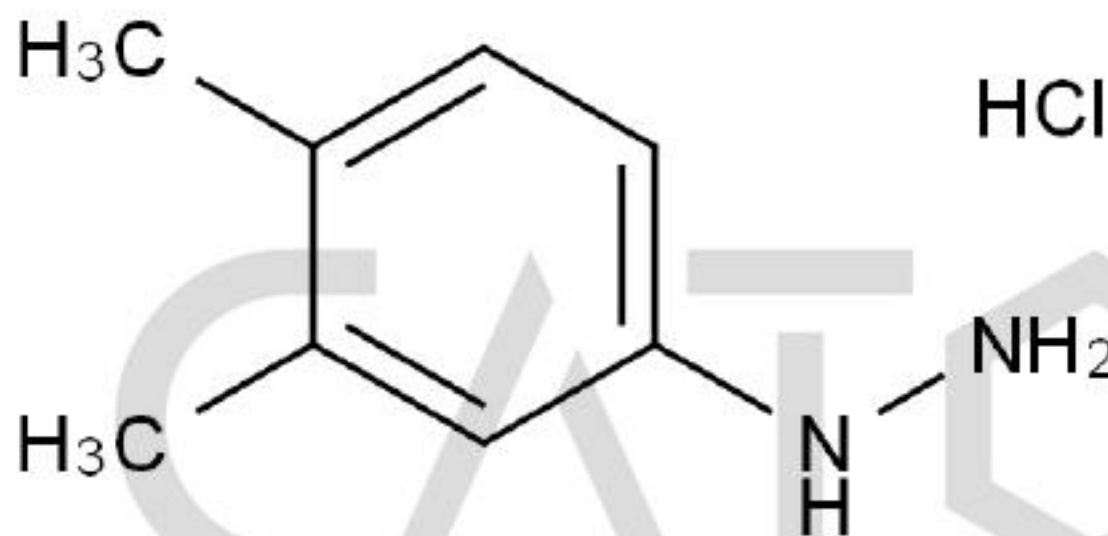


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                   |                          |                                           |
|---------------------------|---------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | (3,4-dimethylphenyl)hydrazine hydrochloride       | <b>Catalogue Number:</b> | CIM-100008                                |
| <b>Synonyms:</b>          | N/A                                               | <b>Lot Number:</b>       | 0120-SA-7167                              |
| <b>CAS Number:</b>        | 60481-51-8                                        | <b>Expiry Date:</b>      | Jan 20, 28                                |
| <b>Molecular Formula:</b> | C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> HCl | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 136.19 36.46                                      |                          |                                           |

Chemical Structure:



| Test Items      | Method            | Results                         |
|-----------------|-------------------|---------------------------------|
| Appearance      | Visual inspection | Pale Beige to Light Beige Solid |
| Identification: | LC&HNMR           | Confirmed                       |
| Purity:         | HPLC              | 97.668%                         |
| 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: Jan 20, 26

Date: Jan 20, 26

Date: Jan 20, 26



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>

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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           | Jan 20, 26 | First release.      |

  
CATO Research Chemicals Inc.