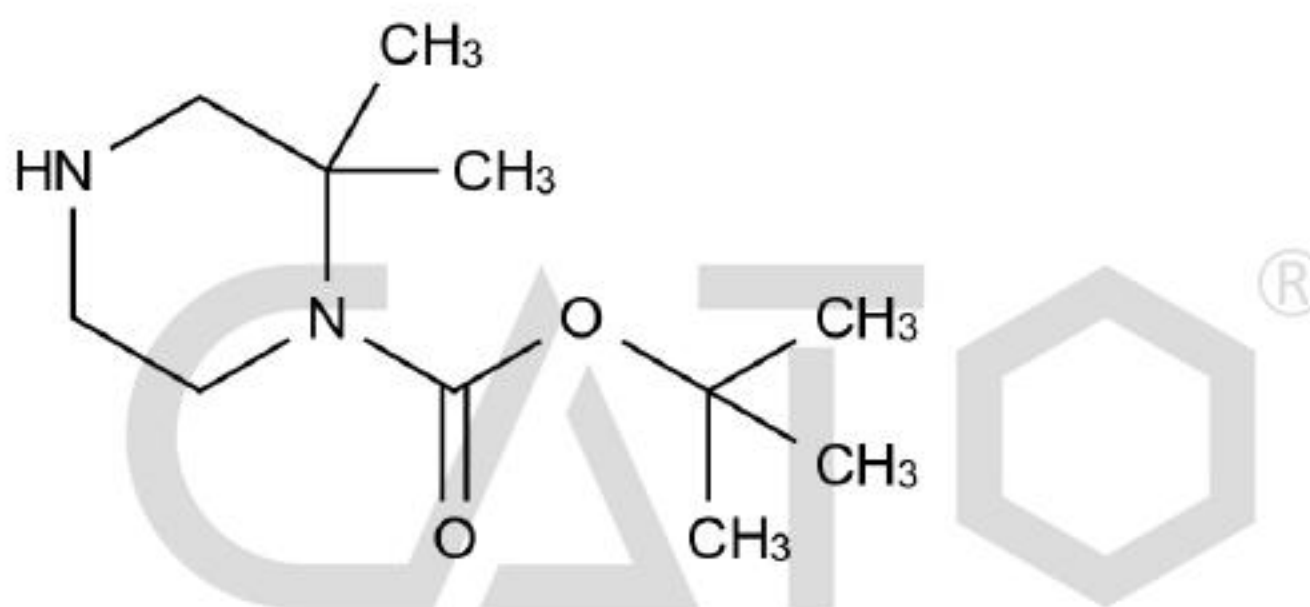


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                               |                          |                                           |
|---------------------------|---------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Tert-butyl 2,2-dimethylpiperazine-1-carboxylate               | <b>Catalogue Number:</b> | CIM-201868                                |
| <b>Synonyms:</b>          | N/A                                                           | <b>Lot Number:</b>       | 0429-SA-7997                              |
| <b>CAS Number:</b>        | 674792-07-5                                                   | <b>Expiry Date:</b>      | Apr 29, 27                                |
| <b>Molecular Formula:</b> | C <sub>11</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub> | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 214.30                                                        |                          |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.140%   |
| 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: Apr 29, 25

Date: Apr 29, 25

Date: Apr 29, 25



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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           | Apr 29, 25 | First release.      |

