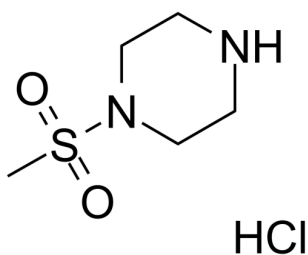


## Certificate of Analysis

### Compound Information

|                            |  |
|----------------------------|--|
| <b>Product Name:</b>       | 1-(Methylsulfonyl)piperazine hydrochloride                       |
| <b>Cat. No.:</b>           | 1057278  |
| <b>CAS No.:</b>            | 161357-89-7  |
| <b>Molecular Formula:</b>  | C <sub>5</sub> H <sub>13</sub> ClN <sub>2</sub> O <sub>2</sub> S |
| <b>Molecular Weight:</b>   | 200.69   |
| <b>Chemical Structure:</b> |  |



### Batch Information

|                     |                     |
|---------------------|---------------------|
| <b>Batch No.:</b>   | Lc1016029           |
| <b>Storage:</b>     | Storage temp. 2-8°C |
| <b>Mfg. Date:</b>   | 2011-07-08          |
| <b>Retest Date:</b> | 2022-07-07          |
| <b>Origin:</b>      | Shanghai, China     |

### QC Summary

|                                    |   |
|------------------------------------|---|
| <b>Appearance:</b>                 | White to off-white (Solid)  |
| <b><sup>1</sup>H NMR Spectrum:</b> | Consistent with structure   |
| <b>Purity (NMR):</b>               | ≥95.0%  |
| <b>Conclusion:</b>                 | The product has been tested and complies with the given specifications. |

**Caution: Research use only and are not intended for human use.**

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