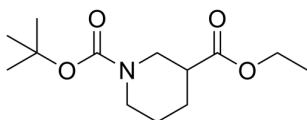


## Certificate of Analysis

### Compound Information

|                            |   |
|----------------------------|---|
| <b>Product Name:</b>       | Piperidine-1,3-dicarboxylic acid 1-tert-butyl 3-ethyl ester |
| <b>Cat. No.:</b>           | 1019351   |
| <b>CAS No.:</b>            | 130250-54-3   |
| <b>Molecular Formula:</b>  | C <sub>13</sub> H <sub>23</sub> NO <sub>4</sub>             |
| <b>Molecular Weight:</b>   | 257.33  |
| <b>Chemical Structure:</b> |   |



### Batch Information

|                     |                           |
|---------------------|---------------------------|
| <b>Batch No.:</b>   | Lf0819161667              |
| <b>Storage:</b>     | Store at room temperature |
| <b>Test Date:</b>   | 2022-08-19                |
| <b>Retest Date:</b> | 2027-08-18                |
| <b>Origin:</b>      | Shanghai, China           |

### QC Summary

|  |   |
|--|---|
| <b>Appearance:</b>                             | Light yellow to yellow (<31°C Solid,>31°C Liquid)                       |
| <b><sup>1</sup>H NMR Spectrum:</b>             | Consistent with structure   |
| <b>Purity (NMR):</b>                           | ≥98.0%  |
| <b>OR[α](C=0.57 g/100ml CHCL<sub>3</sub>):</b> | -2.0°   |
| <b>Water(KF):</b>                              | 0.29%   |
| <b>Residue on Ignition:</b>                    | 0.06%   |
| <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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