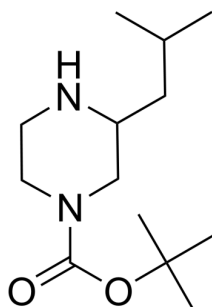


## Certificate of Analysis

### Compound Information

|                            |   |
|----------------------------|---|
| <b>Product Name:</b>       | 1-Boc-3-isobutyl-piperazine                                   |
| <b>Cat. No.:</b>           | 1058093   |
| <b>CAS No.:</b>            | 78551-93-6  |
| <b>Molecular Formula:</b>  | C <sub>13</sub> H <sub>26</sub> N <sub>2</sub> O <sub>2</sub> |
| <b>Molecular Weight:</b>   | 242.36  |
| <b>Chemical Structure:</b> |   |



### Batch Information

|                     |                     |
|---------------------|---------------------|
| <b>Batch No.:</b>   | Ld092118370         |
| <b>Storage:</b>     | Storage temp. 2-8°C |
| <b>Mfg. Date:</b>   | 2018-08-13          |
| <b>Retest Date:</b> | 2021-08-12          |
| <b>Origin:</b>      | Shanghai, China     |

### QC Summary

|                                    |   |
|------------------------------------|---|
| <b>Appearance:</b>                 | Light brown to brown (Oil)  |
| <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.**

Tel: 400-821-0725

E-mail: [product@leyan.com](mailto:product@leyan.com)

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai