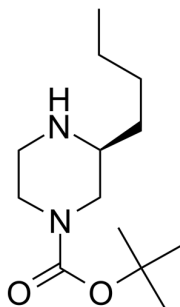


Certificate of Analysis

Compound Information

| | |
|----------------------------|---|
| Product Name: | (S)-1-Boc-3-butyl-piperazine |
| Cat. No.: | 1071961 |
| CAS No.: | 928025-60-9 |
| Molecular Formula: | C ₁₃ H ₂₆ N ₂ O ₂ |
| Molecular Weight: | 242.36 |
| Chemical Structure: | |



Batch Information

| | |
|---------------------|---------------------------|
| Batch No.: | Ld042802120 |
| Storage: | 2-8°C, protect from light |
| Mfg. Date: | 2020-04-28 |
| Retest Date: | 2023-04-27 |
| Origin: | Shanghai, China |

QC Summary

| | |
|------------------------------------|---|
| Appearance: | Light yellow to yellow (Oil) |
| ¹H NMR Spectrum: | Consistent with structure |
| Optical Rotation: | Consistent with structure |
| Purity (NMR): | ≥95.0% |
| Conclusion: | 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

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