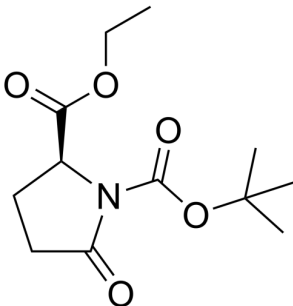


Certificate of Analysis

Compound Information

| | |
|----------------------------|---|
| Product Name: | N-tert-Butoxycarbonylpyroglutamic acid ethyl ester |
| Cat. No.: | 1021584 |
| CAS No.: | 144978-12-1 |
| Molecular Formula: | C ₁₂ H ₁₉ NO ₅ |
| Molecular Weight: | 257.28 |
| Chemical Structure: |  |

Batch Information

| | |
|---------------------|---------------------------|
| Batch No.: | La1127017 |
| Storage: | Store at room temperature |
| Test Date: | 2017-11-27 |
| Retest Date: | 2022-11-26 |
| Origin: | Shanghai, China |

QC Summary

| | |
|------------------------------------|---|
| Appearance: | White to off-white (Solid) |
| ¹H NMR Spectrum: | Consistent with structure |
| Optical Rotation: | Consistent with structure |
| Purity (NMR): | ≥97.0% |
| 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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