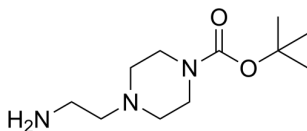


Certificate of Analysis

Compound Information

| | |
|----------------------------|---|
| Product Name: | tert-Butyl 4-(2-aminoethyl)piperazine-1-carboxylate |
| Cat. No.: | 1062928 |
| CAS No.: | 192130-34-0 |
| Molecular Formula: | C ₁₁ H ₂₃ N ₃ O ₂ |
| Molecular Weight: | 229.32 |
| Chemical Structure: | |



Batch Information

| | |
|---------------------|---------------------------|
| Batch No.: | Le052772304 |
| Storage: | 2-8°C, protect from light |
| Test Date: | 2021-05-27 |
| Retest Date: | 2024-05-26 |
| Origin: | Shanghai, China |

QC Summary

| | |
|------------------------------------|---|
| Appearance: | White to yellow (<36°C Solid,>41°C Liquid) |
| ¹H NMR Spectrum: | Consistent with structure |
| Purity (NMR): | ≥98.0% |
| Water(KF): | 0.62% |
| 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

E-mail: product@leyan.com

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