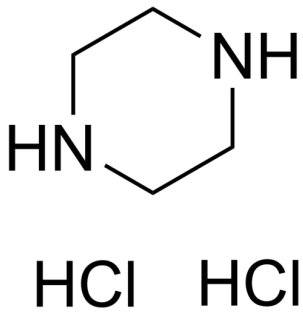


Certificate of Analysis

Compound Information

Product Name:	Piperazine (dihydrochloride)
Cat. No.:	1225852
CAS No.:	142-64-3
Molecular Formula:	C ₄ H ₁₂ Cl ₂ N ₂
Molecular Weight:	159.06
Chemical Structure:	

Batch Information

Batch No.:	Lf0620141385
Storage:	2-8°C, protect from light
Test Date:	2022-06-20
Retest Date:	2025-06-19
Origin:	Shanghai, China

QC Summary

Appearance:	White to off-white (Solid)
¹H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥98.0%
Residue on Ignition:	0.11%
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