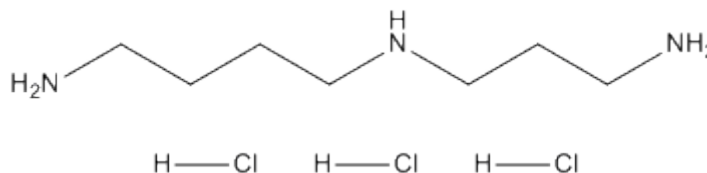


## Certificate Of Analysis

**Name:** N1-(3-Aminopropyl)butane-1,4-diamine trihydrochloride  
**CAS No.:** 334-50-9  
**Cat No.:** A942118  
**Molecular Formula:** C<sub>7</sub>H<sub>22</sub>Cl<sub>3</sub>N<sub>3</sub>  
**Molecular Weight:** 254.63  
**Batch No.:** N10102022  
**Mfg.Date:** 2022.10.10  
**Exp.Date:** 2024.10.09



Items	Specifications	Results
Appearance	White to off-white powder	Conforms
Identification	<sup>1</sup> H NMR confirms to structure	Conforms
Solubility	Soluble in water	Conforms
Loss on drying	≤1.0%	0.47%
Residue on ignition	≤0.2%	0.08%
Melting point	257-259°C	257.2-258.5°C
Heavy metals	≤10ppm	Conforms
Pb	≤0.5ppm	Conforms
As	≤0.15ppm	Conforms
Cd	≤2.5ppm	Conforms
Hg	≤1.5ppm	Conforms
Purity (GC)	99%(min)	Conforms
Conclusion	The product tested complies with the specifications.	

**Storage condition: Store in a tightly closed container in a cool and dry place.**

Checker:

\*If you have any comments and suggestions, please contact us by [sales@amadischem.com](mailto:sales@amadischem.com)

\*For laboratory or manufacturing use only, not for drug, food and household use.