

Certificate of Analysis

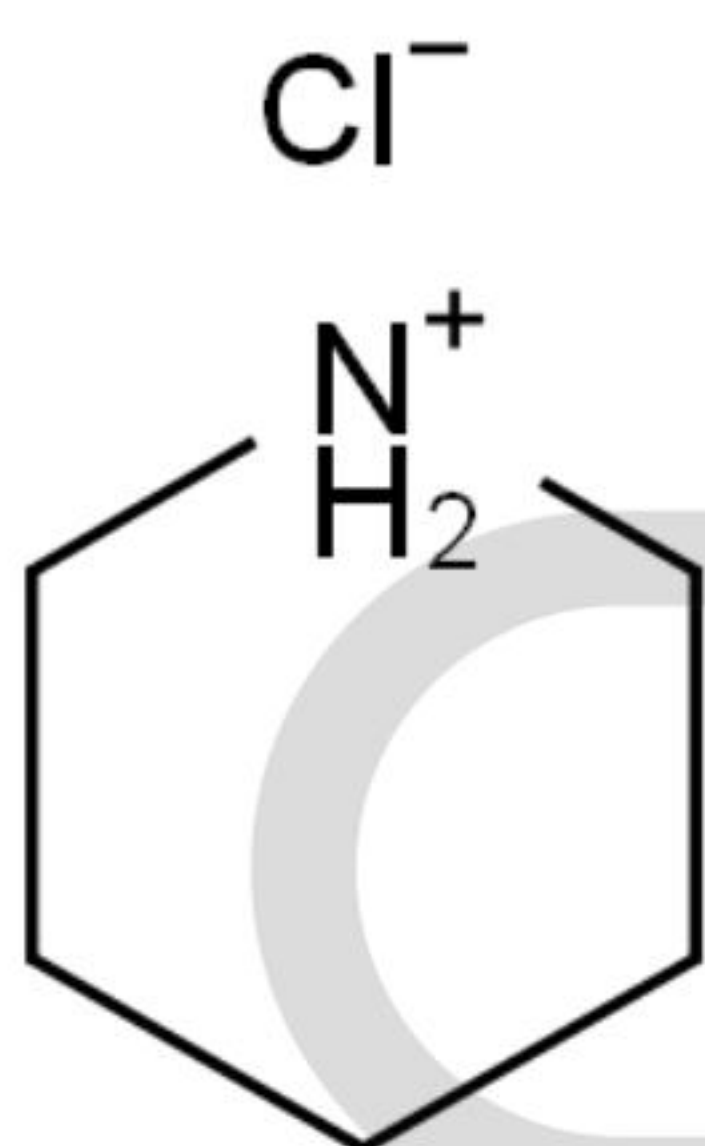
Reference Material & Standard

Product Name:	Piperidine Hydrochloride	Catalogue Number:	CCHM704278
Synonyms:	N/A	Lot Number:	1014-RG-0124
CAS Number:	6091-44-7	Expiry Date:	Oct 13, 2029
Molecular Formula:	C ₅ H ₁₂ N Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	86.16 35.45	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	ELSD	100.000%
Loss on Drying	TGA	0.0923%
Assay	qNMR	97.6%
Uncertainty		±0.6%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 11, 2026

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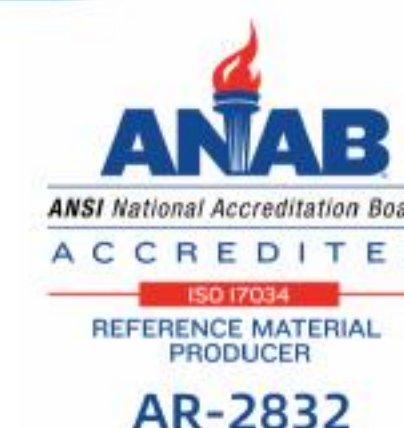
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