

Certificate of Analysis

Reference Material & Standard

Product Name:	Piperazine Impurity 20	Catalogue Number:	C4X-242720
Synonyms:	1,4-Dicyclopentylpiperazine	Lot Number:	0722-RH-0024
CAS Number:	119891-85-9	Expiry Date:	Jul 29, 2030
Molecular Formula:	C ₁₄ H ₂₆ N ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	222.37	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	GC	99.986%
Loss on Drying	TGA	0.7409%
Assay		99.2%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) * Purity GC (%) / 100%

Loss on Drying is considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 30, 2026

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