

Certificate of Analysis

Reference Material & Standard

Product Name:	Cyclopentane	Catalogue Number:	CCEM500495
Synonyms:	N/A	Lot Number:	0813-RA-0013
CAS Number:	287-92-3	Expiry Date:	Jul 20, 2030
Molecular Formula:	C ₅ H ₁₀	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	70.13	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Water Content	Karl Fischer	0.1140%
Assay		99.9%
Uncertainty		±0.3%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$$

Water Content is considered as absolute effect, GC purity is considered as relative effect.
- 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:

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Approved by General Manager:

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Date: Jul 21, 2026

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