

Certificate of Analysis

Reference Material & Standard

Product Name:	1,4-Cyclohexanedicarboxylic Acid(Mixture of cis and trans isomers)	Catalogue Number:	CS120057
Synonyms:	N/A	Lot Number:	0608-RH-0105
CAS Number:	1076-97-7	Expiry Date:	Jun 07, 2030
Molecular Formula:	C ₈ H ₁₂ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	172.18	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	97.323%
Water Content	Karl Fischer	0.2190%
Assay		97.1%
Uncertainty		±0.6%

Comment:

1. 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.

2. 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: Jun 08, 2026

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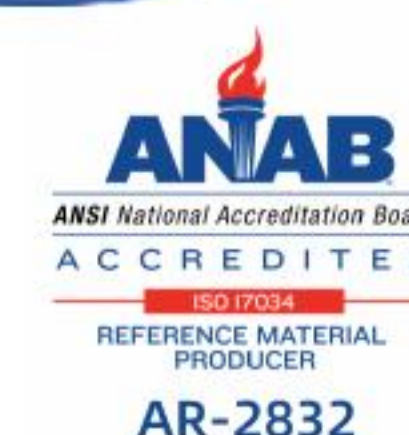
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