

Certificate of Analysis

Reference Material & Standard

Product Name:	Pentacontane	Catalogue Number:	CCEM500923
Synonyms:	N/A	Lot Number:	1223-RA-0002
CAS Number:	6596-40-3	Expiry Date:	May 12, 2030
Molecular Formula:	C ₅₀ H ₁₀₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	703.34	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	IR	Confirmed
Purity	GC	98.112%
Loss on Drying	TGA	0.4037%
Assay		97.7%
Uncertainty		±0.4%

Comment:

CATO Research Chemicals Inc.

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

$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity GC (\%)} / 100\%$

Loss on Drying 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: May 14, 2026

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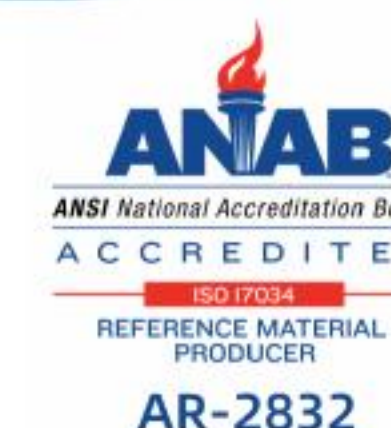
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