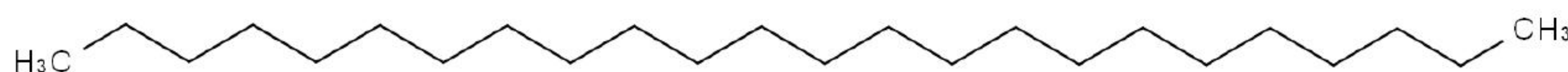


Certificate of Analysis

Reference Material & Standard

Product Name:	N-Tetracosane	Catalogue Number:	CCEM500665
Synonyms:	N/A	Lot Number:	1-F-91E-1
CAS Number:	646-31-1	Expiry Date:	Oct 29, 2027
Molecular Formula:	C ₂₄ H ₅₀	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	338.65		
Chemical Structure:			



Test Items	Method	Results
Appearance	Visual inspection	White Waxy Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.026%
Water Content	Karl Fischer	0.6160%
Assay		98.4%
Uncertainty		±2.0%

Comment:

- The calculation of the 100% 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:

Prepared by:

Nice

Reviewed by:

Hinlam

Aporoved by General Manager:

David

Date: Oct 30, 2023

Date: Nov 01, 2023

Date: Nov 01, 2023

