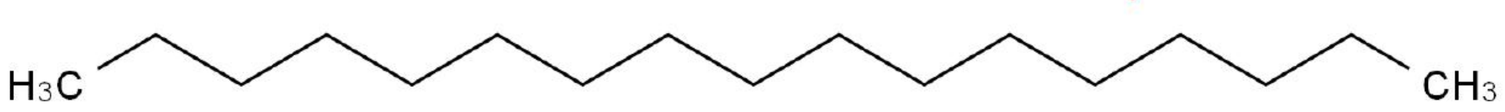
Certificate of Analysis

Reference Material & Standard

Product Name:	N-Heptadecane	**Catalogue Number:**	CCEM500634
Synonyms:	N/A	**Lot Number:**	0430-RG-0041
CAS Number:	629-78-7	**Expiry Date:**	Apr 29, 2029
Molecular Formula:	C17H36	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	240.47	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.596%
Loss On Drying	TGA	5.088%
Assay		94.5%
Uncertainty		±0.6%

Comment:

1. The calculation of the 100% 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.
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: Alice Date: Apr 30, 2025

Reviewed by: Hinlam Date: Apr 30, 2025

Approved by General Manager: David Date: Apr 30, 2025

CATO Research Chemicals Inc.