

Certified Reference Material

This certificate is designed in accordance with ISO 17034 and ISO Guide 31. This certified reference material (CRM) was designed, produced and verified in accordance with ISO/IEC 17025, ISO 17034 and a registered quality management system ISO 9001.

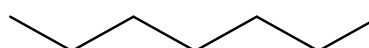
Product Name
n-Heptane

Product Code
DRE-C14126000

Lot Number
H996519

CAS No.
142-82-5

Format
Neat



Mol. Weight
100.20

Expiry Date
16 Jan 2025

Mol. Formula
C₇H₁₆

Storage Temp
20°C ± 4°C

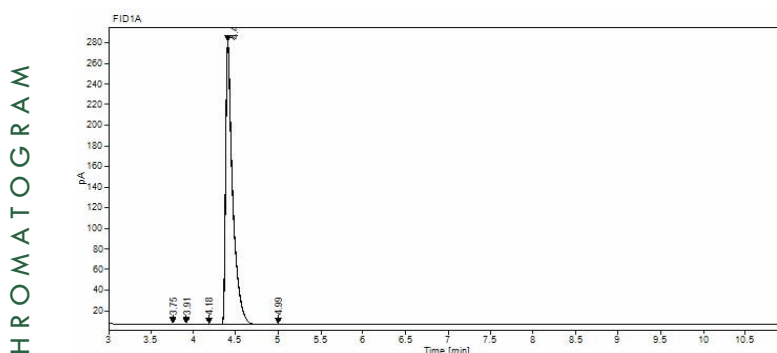
CERTIFIED Purity 99.39% (g/g)	CERTIFIED Expanded Uncertainty (U) 0.30% (g/g)
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Uncertainty

The certified value(s) and uncertainty(ies) are determined in accordance with ISO 17034 with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of characterisation, homogeneity and stability testing. Stability values are based on real evidence opposed to simulation.

The producer certifies that this certified reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this certified reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON		RM Release
N. Müller	16 Jan 2019		



Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]	S/N
1	3.75	3.01688	0.45	0.19	0.195	0.1
2	3.91	2.10871	0.46	0.13	0.172	5.1
3	4.18	1.95257	0.28	0.12	0.204	1
4	4.4	1567.82777	274.21	99.44	0.539	5192.1
5	4.99	1.67845	0.27	0.11	0.232	4.7

Instrument

GC/FID

Detection

FID

Column

Optima-5MS, 0.25 µm, 0.25 mm

Method Details

see Batch Information

Inj.-Vol.

1.0 µL

Flow

1 mL/min

Method of Characterisation

Purity = 100% -Assay –Water content (KF)

Method of Identification

EA, NMR, RT, IR, MS

Batch Information

Water Content: <0.10% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).

Method Details

Injector:	100°C
Initial Temp:	200°C for 5 min
End Temp:	200°C for 1 min
Gradient:	0°C/min

Intended Use

This CRM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (DKD). The calibration of

the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Homogeneity

Random replicate samples of the final packaged CRM have been analysed to prove homogeneity compliant with ISO 17034.

Storage

The CRM should be stored in the original sealed container at the indicated temperature.

Instructions for use

It is recommended to use 1 mg as the minimum sample size and if less material is used, to increase the certified uncertainty by a factor of two for half sample and four for a quarter of sample. If storage after opening is necessary, the CRM should be tightly closed and kept from light and moisture. If the CRM was in a sealed ampoule, it should be transferred to a vial with minimum head space. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

LGC Labor GmbH

Bgm.-Schlosser-Straße 6A
86199 Augsburg, Germany
T | +49 821 906080
F | +49 821 9060888
E | dr.ehrenstorfer@lgcgroup.com

LGC Labor GmbH is accredited by
DAkkS accreditation numbers
D-RM-19883-01-00 & D-PL-19883-01-00
on ISO 17034:2017 & ISO/IEC 17025:2018

