



Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

 Article Code:
 DRE-C15623100

 Article Name:
 Nonanoic acid

 Formula:
 C9H18O2

 Mol. Weight:
 158.24

 CAS No.:
 112-05-0

Lot Number:

G145168

Expiry Date:
Storage Temperature:

26.06.2023 20°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperatur given above. After use the bottle should be tightly closed and protected from moisture and light. The expiry date is valid for original sealed bottles under recommended storage conditions only.

Purity:

98.26% (g/g)

Expanded Uncertainty U=

0.30% (g/g)

The uncertainty of this standard is calculated in accordance with the ISO Guide 34 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is U(exp) = u(RM) x k, where k is the coverage factor at the 95% confidence level (k=2). Uncertainty u(RM) is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: u(RM) = Vu(char)² + u(bb)² + u(lts)² + u(sts)²; u(char) is the uncertainty of purity determination; u(bb) uncertainty of homogeneity test; u(its) uncertainty of stability test long-term; u(sts) uncertainty of stability test short-term. u(its) and u(sts) are not included in the calculation as the stability statement is based on real evidence opposed to simulation. Minimum sample: 1 mg is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half sample and a factor of four for a quarter of sample.

Initial Temp:

End Temp:

Gradient:

120°C for 4 min

320°C for 3 min

15°C/min

Intended use: Use this RM as calibrant for chromatography or any other analytical technique.

Analytical Data

Traceability of chromatography: To the International System of Units (SI).

Intrument: Detection: GC/FID FID

Column: Optima-5MS, 0.25 µm, 0.25 mm

: Optima-Sivis, 0.25 μ
· 1 ul

Inj.-Vol.: 1 µl Flow: 1.0 ml/min

Ret.Time: 6.75 min

Comment

Traceability: The balances used are calibrated with weights traceable to the national standards (DKD).

Calibrated class A glassware is used for volumetric measurements.

Certificate Revision 1

Water Content: 0.08% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).

Identity: EA, NMR, RT, IR

Certified on: Certified by: 26.06.2017

p. Bed

Data file:

15623100-23.dx

Sample name:

70626CY G145168

lnj. volume [µl]:

Sample Description

1.0

Acq. method:

PAHK.amx

Nonanoic acid

Instrument:

FID 2

Sequence Name:

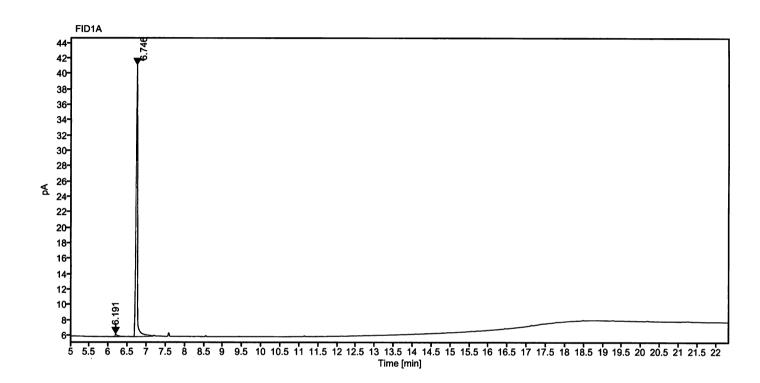
2017KW25-4a

Injection date:

6/23/2017 5:15:55 AM

Location:

21



Signal:	FID1A				
Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	6.191	1.47483	0.34	1.56	0.240
2	6.746	93.35177	35.26	98.44	0.502
	Sum	94.83			

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