

Certificate of Analysis



Product Identification

16174810 Phthalic acid, bis-n-nonyl ester D4
CA 1,2-Benzene-3,4,5,6-d4-dicarboxylic acid, 1,2-di-n-nonyl ester
IUPAC Di-n-nonylphthalate D4
Formula C₂₆H₃₈D₄O₄
Mol.Weight 422.61
CAS No. 1202865-43-7

Expiry Date 15.02.2024
Lot Number 153151
Store at 20 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data



R Code 22-53

S Code 60-61

LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase liquid
Color colourless
Melt.Range
Vapour pressure N/A at N/A °C
Solubility in water N/A g/l at N/A °C
Boiling Range (lit.)

Analytical Data

Detection: GC/FID
Column: DB-5, 30 m, ID 0.25 mm
Inj.-Vol.: 1.00 µl
Flow: 1.0 ml/min
Ret.-Time: 39.13 min.

Method Details:
Injector: 320° C
Start Temperature: 120° C for 4 min
End Temperature: 320° C for 8 min
Gradient: 5° C/min

Identity: MS, RT, EA, NMR, IR
Comment: Chemical purity: 99.6%
Isotopic purity: 99.3%

Water Content 0.1 % Determined by Karl-Fischer Titration
Det. Purity 98.9 % Tolerance/Uncertainty +/- 1.0 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is $Uc(y) \cdot K$, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

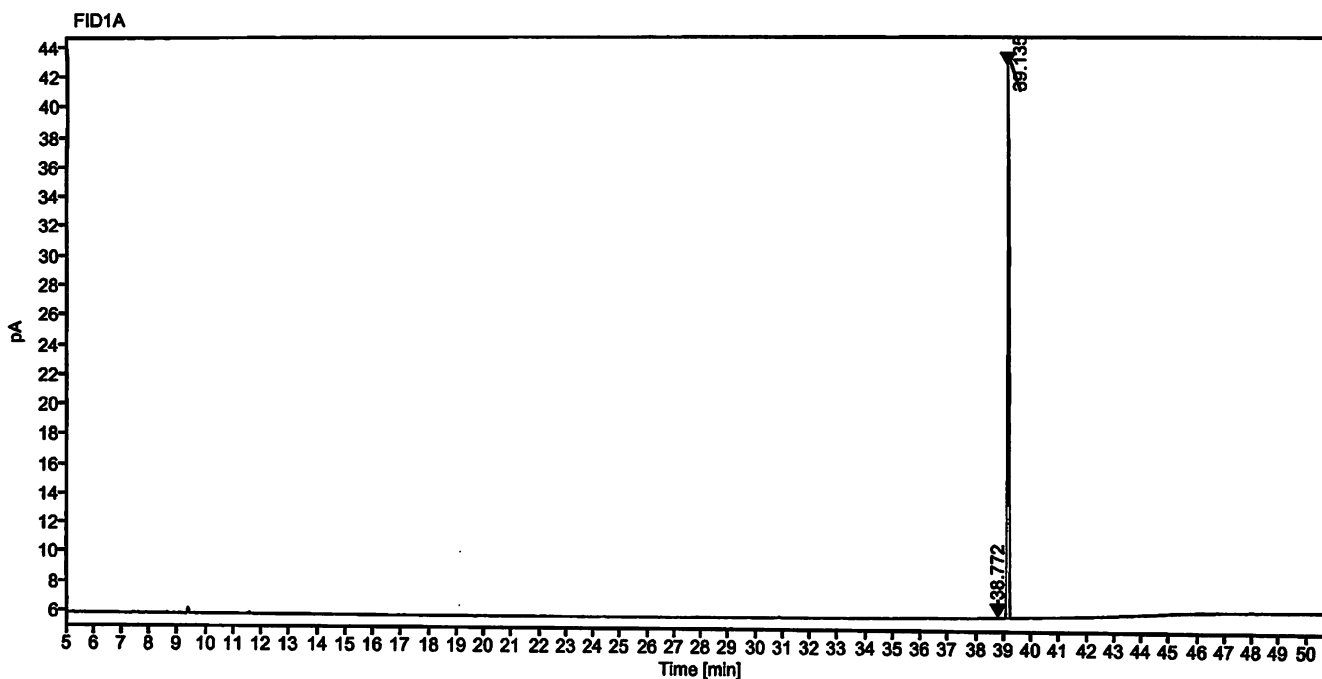
Certified on 15.02.2018
by M. Beck

The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

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The warranty for this product is limited to the purchasing price of this product.

Data file: 16174810-04-r001.dx Instrument: FID 3
 Sample name: 71117CY 153151 Sequence Name: 2017KW47-3b
 Inj. volume [µl]: 1.0 Injection date: 11/23/2017 9:56:09 AM
 Acq. method: PAH.amx Location: 52

Sample Description Phthalic acid, bis-n-nonyl ester D4



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	38.772	0.20371	0.07	0.16	0.040
2	39.135	130.51701	36.87	99.84	0.043
	Sum	130.72			

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