

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

16174710 Phthalic acid, bis-4-methyl-2-pentyl ester D4

CA

IUPAC

Formula

Mol.Weight 388,47

CAS No. 1398066-13-1

Expiry Date 07.03.2024

Lot Number 149476

Store at

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

Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg)

Physical Data

Phase

Color

Melt. Range

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: 13.77 min.

Method Details:

Injector: 320° C

Start Temperature: 120° C for 4 min

End Temperature: 320° C for 3 min

Gradient: 15° C/min

Identity: IR, MS, EA, NMR

Comment Chemical purity: 97.0%

Isotopic purity: 98.8%

Mixture of diastereomers.

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 95.9 % Tolerance/Uncertainty +/- 2.0 %

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 $U_c(y) \cdot K$, 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 07.03.2018

by M. Beck

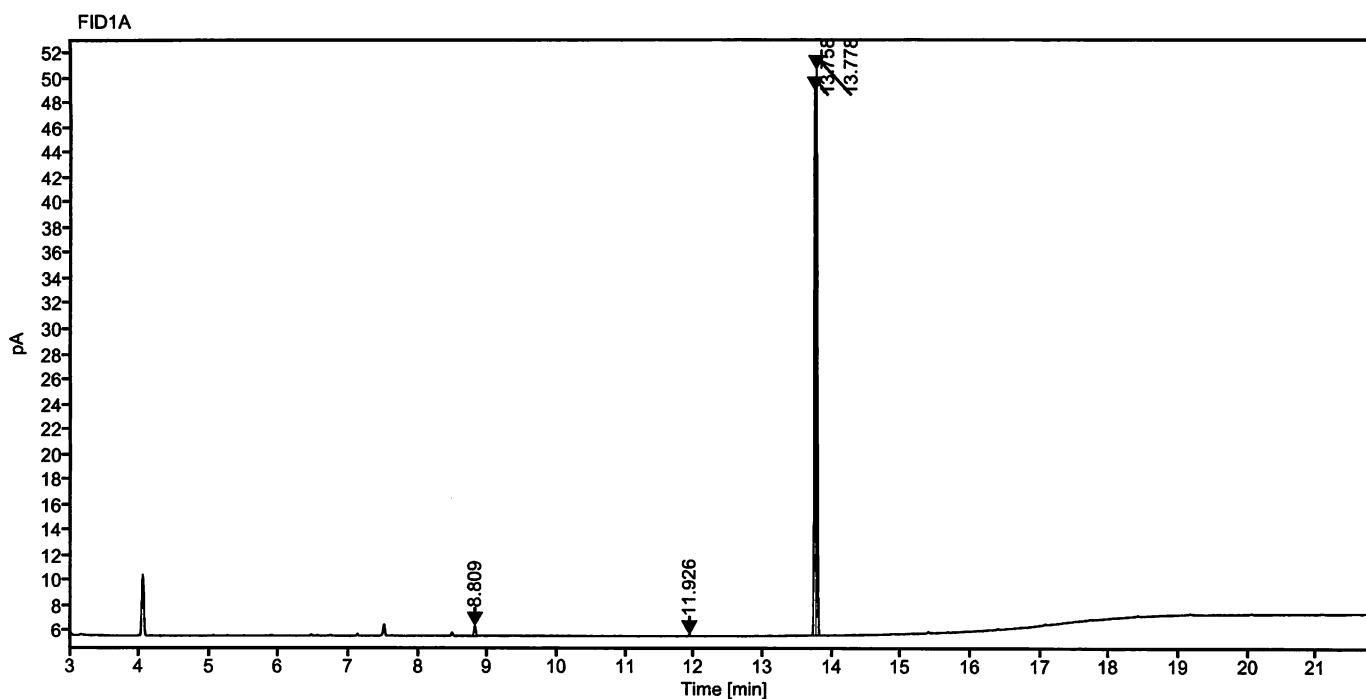
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

20171019

Data file: 16174710-21-r001.dx Instrument: FID 3
Sample name: 71030CY 149476 Sequence Name: 2017KW44-4a
Inj. volume [µl]: 1.0 Injection date: 11/3/2017 2:25:24 AM
Acq. method: pahk.amx Location: 24

Sample Description Phthalic acid, bis-4-methyl-2-pentyl ester D4



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	8.809	1.35931	0.84	1.15	0.086
2	11.926	0.20538	0.16	0.17	0.016
3	13.758	58.07773	43.32	49.34	0.078
4	13.778	58.06321	45.02	49.33	0.053
Sum		117.71			

M. Beal