Certificate of Analysis

LGC | DR EHRENSTORFER™

Product Identification

16173900 Phthalic acid, bis(4-methylcyclohexyl) ester

CA 1,2-Benzenedicarboxylic acid, 1,2-bis(4-methylcyclohexyl) ester

IUPAC

Formula C22H30O4

Mol.Weight 358.47

CAS No. 18249-11-1

Expiry Date 07.03.2024

Lot Number 142264

Store at 20 °C ±4 °C

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 liquid

Color colourless

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:

Method Details:

Injector: 280° C

Start Temperature: 60° C for 5 min

End Temperature: 280° C for 6 min

Gradient: 5° C/min

Identity: RT, MS, EA, NMR

Comment Mixture of cis/cis-, trans/cis- and trans/trans-isomers

Water Content Determined by Karl-Fischer Titration

Det. Purity 97.2 % 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 Uc(y)*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

M. Beck

The Laboratory LGC Labor GmbH is accreditated 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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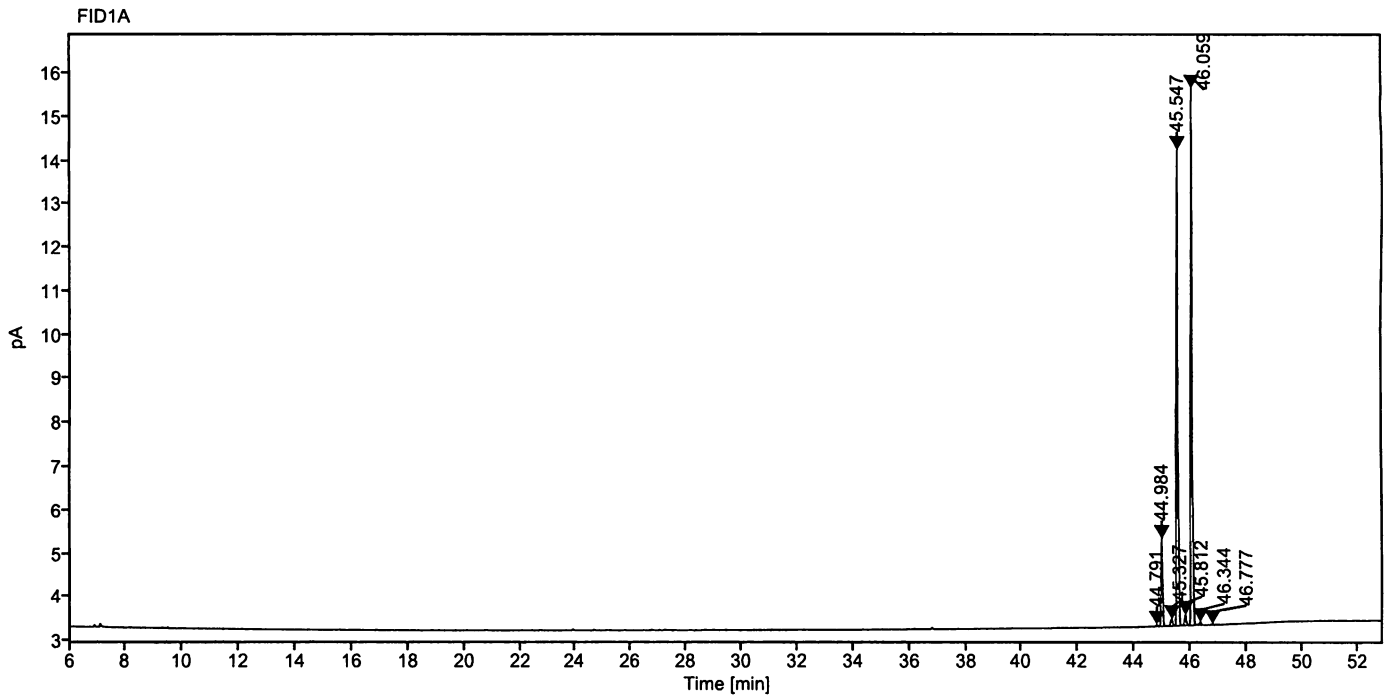
The warranty for this product is limited to the purchasing price of this product.

Data file:	16173900-08.dx	**Instrument:**	FID 1
Sample name:	70524CY 142264	**Sequence Name:**	2017KW21-5a
Inj. volume [µl]:	1.0	**Injection date:**	5/26/2017 7:38:41 PM
Acq. method:	PES.amx	**Location:**	29

Sample Description Phthalic acid, bis(4-methylcyclohexyl) ester



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	44.791	0.12039	0.04	0.13	0.040
2	44.984	7.12823	2.02	7.78	0.190
3	45.327	0.77957	0.16	0.85	0.059
4	45.547	38.14518	10.90	41.66	0.252
5	45.812	1.00279	0.25	1.10	0.198
6	46.059	43.92813	12.30	47.97	0.233
7	46.344	0.36765	0.08	0.40	0.056
8	46.777	0.10029	0.03	0.11	0.044
	Sum	91.57			