

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

10046000 Adipic acid-bis-2-ethylhexyl ester  
CA Hexanedioic acid, 1,6-bis(2-ethylhexyl) ester  
IUPAC Di(2-ethylhexyl)adipate  
Formula C<sub>22</sub>H<sub>42</sub>O<sub>4</sub>  
Mol.Weight 370.58  
CAS No. 103-23-1

## Reference Materials for Residue Analysis

Expiry Date 16.02.2023  
Lot Number 130792  
Store at 20 °C ±4 °C

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

## Toxicological Data



R Code 36/37/38

S Code 26-36/37/39

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

## Physical Data

Phase liquid

Color colourless

Melt.Range

Vapour pressure N/A at °C

Solubility in water N/A g/l at °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: 15.12 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: RT, IR, MS

Comment Purity was confirmed by external standard method.

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 99.5 % Tolerance/Uncertainty +/- 0.5 %

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 16.02.2017

by Dr. K. Wörmann

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.

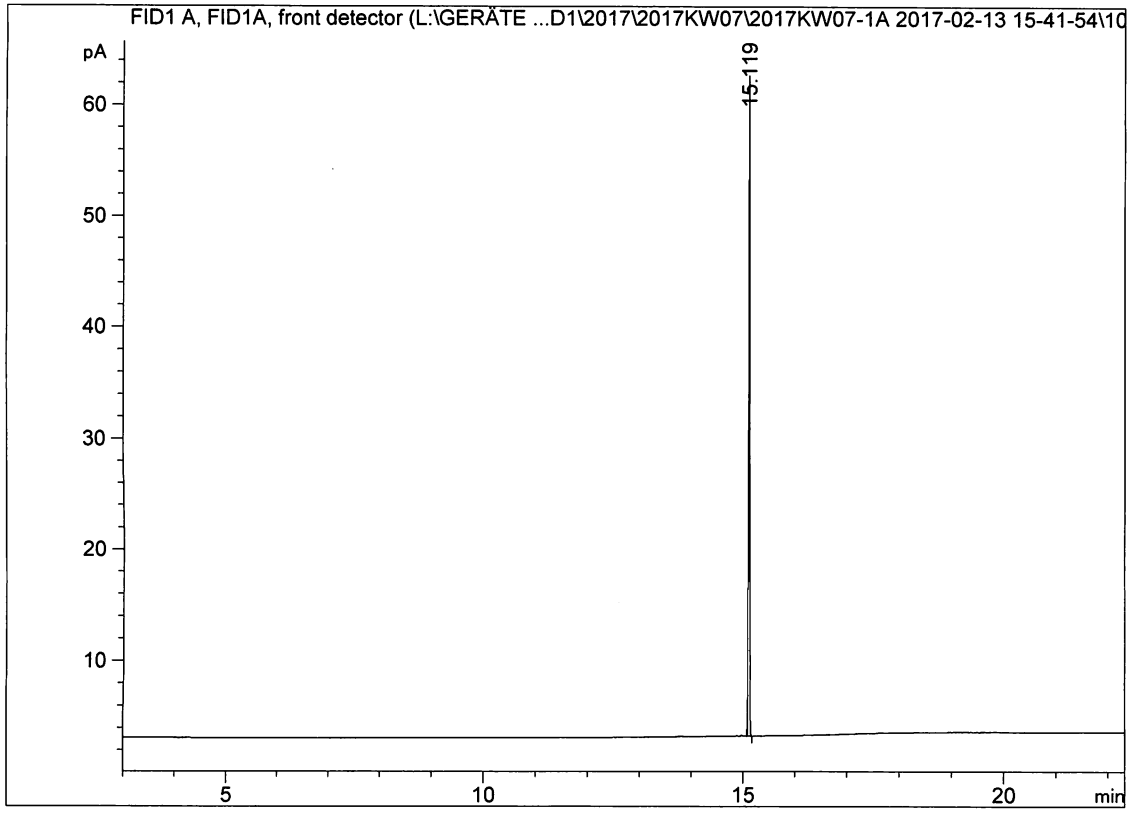
14.02.2017

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Acq. Operator   : FID1                               Seq. Line :   29
Acq. Instrument : GC-FID-1                           Location  : Vial 25
Injection Date  : 14.02.2017 07:03:06                Inj       :    1
                                                    Inj Volume: 1.000 µl

Acq. Method     : C:\CHEM32\1\DATA\2017KW06\2017KW07-1A 2017-02-13 15-41-54\PAHK.M
Last changed    : 13.02.2017 14:34:45 by FID1
Analysis Method : L:\GERÄTE BACKUP\FID1\NEUE METHODEN\PAHK.M
Last changed    : 14.02.2017 10:07:40
                  (modified after loading)

Method Info     : pahk

Sample Info     : Adipic acid-bis-2-ethylhexyl ester
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Area Percent Report  
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Sorted By : Retention Time  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, FID1A, front detector

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	15.119	1	BB	87.83627	59.59831	100.0000

Totals : 87.83627 59.59831

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\*\*\* End of Report \*\*\*