

Certificate of Analysis

**EHRENSTORFER™**

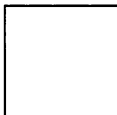
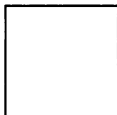
Product Identification

10045960 Adipic acid, bis(2-butoxyethyl) ester
CA Hexanedioic acid, 1,6-bis(2-butoxyethyl) ester
IUPAC
Formula C₁₈H₃₄O₆
Mol.Weight 346.46
CAS No. 141-18-4

Expiry Date 18.09.2024
Lot Number 738094
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: **14.59 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, NMR, EA, IR

Comment Purity was determined by chromatographic assay corrected by water.

Water Content 0.2 % 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 18.09.2018

by D. Schmid

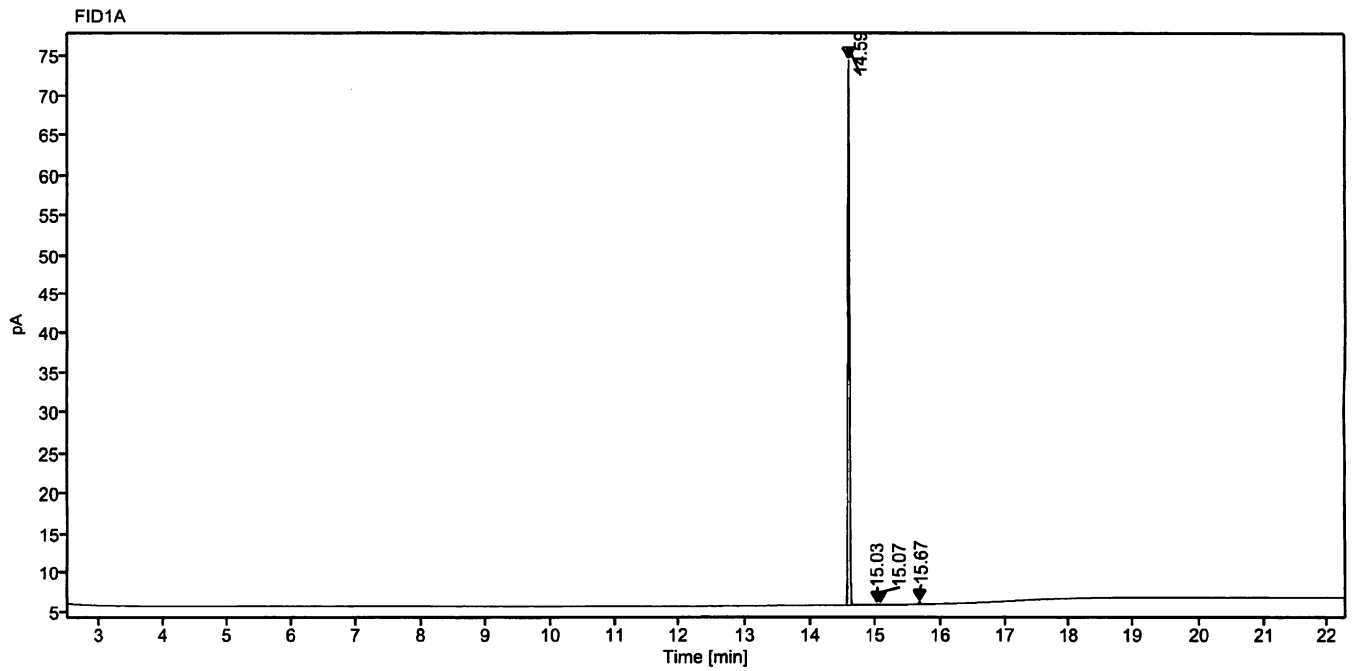
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

17.08.2018, SC

Data file: 10045960-12-r001.dx Instrument: FID 2
Sample name: 80727AL 738094 Sequence Name: 2018KW31-0730a
Inj. volume [µl]: 1.0 Injection date: 7/31/2018 12:02:33 AM
Acq. method: pahk.amx Location: 16

Sample Description Adipic acid, bis(2-butoxyethyl) ester



Signal: FID1A

| Nr. | RT [min] | Area [pA*s] | Height [pA] | Area% | Width [min] |
|-----|----------|-------------|-------------|-------|-------------|
| 1 | 14.59 | 104.61675 | 68.67 | 99.15 | 0.024 |
| 2 | 15.03 | 0.17195 | 0.11 | 0.16 | 0.023 |
| 3 | 15.07 | 0.16419 | 0.10 | 0.16 | 0.023 |
| 4 | 15.67 | 0.55542 | 0.36 | 0.53 | 0.025 |
| | Sum | 105.51 | | | |

Schmid D.