

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

10046010 Adipic acid, bis-2-ethylhexyl ester D4

CA Hexane-(3,3,4,4-D4)dioic acid, 1,6-bis(2-ethylhexyl) ester

IUPAC Di(2-ethylhexyl)-3,3,4,4-D4-adipate

Formula C₂₂H₃₈D₄O₄

Mol.Weight 374.58

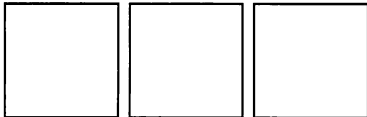
CAS No. .

Expiry Date 11.09.2024

Lot Number 978877

Store at 20 °C ±4 °C

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

Toxicological Data	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.)
R Code 36/37/38 S Code 26-36/37/39 LD50 (Rats female/male in mg/kg) N/A	
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: 15.22 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: MS, RT, IR, NMR Comment Chemical Purity: 99.2 % Isotopic Purity: 99.0 % Isotopic composition: D4 = 98.6 %; D2 = 0.6 %; D1 = 0.2 %; D0 = 0.6 % Purity was determined by chromatographic assay corrected by water.	
Water Content 0.0 % Determined by Karl-Fischer Titration Det. Purity 98.2 % 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 11.09.2018

by D. Schmid



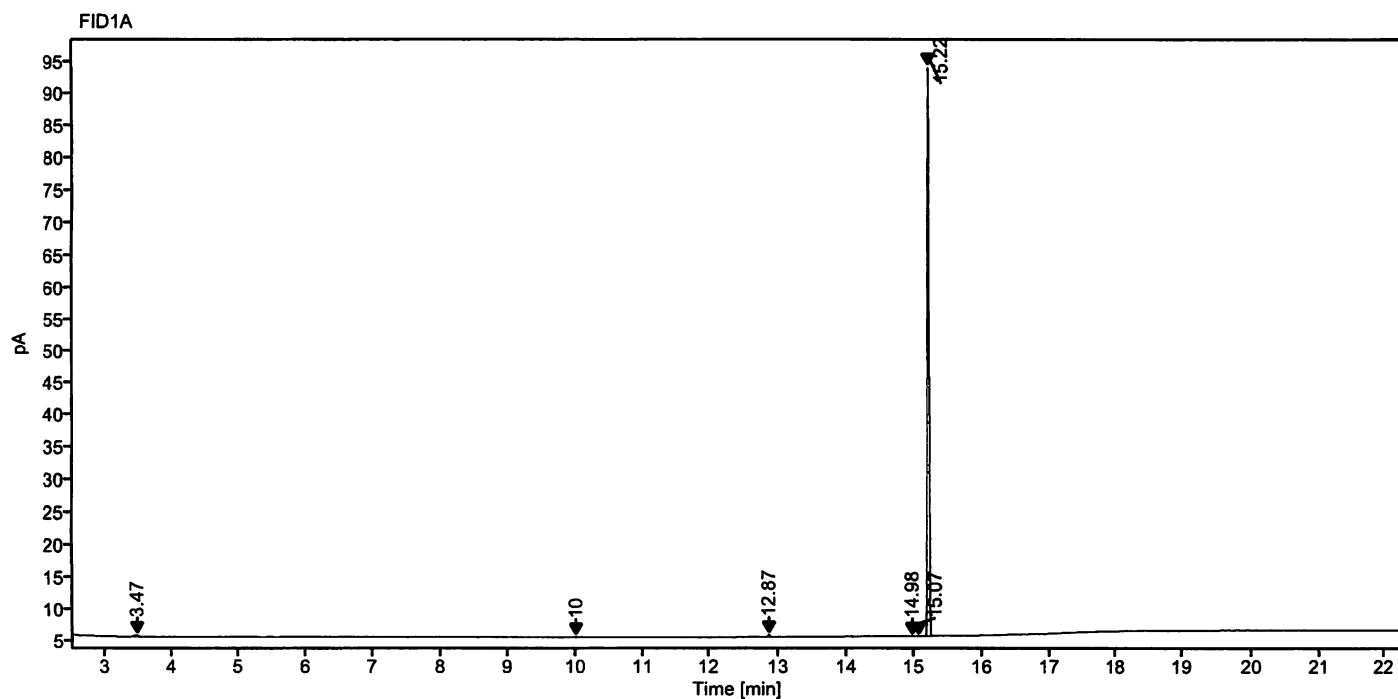
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

10.09.2018, SC

Data file: 10046010-14-r001.dx Instrument: FID 2
Sample name: 80727AL 978877 Sequence Name: 2018KW31-0730a
Inj. volume [µl]: 1.0 Injection date: 7/31/2018 1:25:42 AM
Acq. method: pahk.amx Location: 17

Sample Description Adipic acid, bis-2-ethylhexyl ester D4



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]	S/N
1	3.47	1.17656	0.29	0.85	0.052	6.1
2	10.00	0.23735	0.17	0.17	0.021	16.4
3	12.87	0.69425	0.46	0.50	0.023	49.1
4	14.98	0.17880	0.12	0.13	0.024	5.4
5	15.07	0.17423	0.11	0.13	0.026	4.9
6	15.22	136.62285	88.48	98.23	0.025	3803.5
	Sum	139.08				

Schmid D.