Certificate of Analysis

LGC | DR EHRENSTORFER™

Product Identification

17923100 4-Vinyl-1-cyclohexene

CA Cyclohexene, 4-ethenyl-

IUPAC 4-Vinyl-1-cyclohexene

Formula C8H12

Mol.Weight 108.18

CAS No. 100-40-3

Expiry Date 03.04.2022

Lot Number 170284

Store at 20 °C ±4 °C

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

Toxicological Data

R Code 11-38-40-65

S Code 16-36-46-62

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

Physical Data

Phase liquid

Color colourless

Melt.Range

Vapour pressure 12.7 Torr at 25 °C

Solubility in water N/A g/l at N/A °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: **8.15 min.**

Method Details:

Injector: 200° C

Start Temperature: 40° C for 5 min

End Temperature: 200° C for 16 min

Gradient: 15° C/min

Identity: RT, EA, NMR, MS

Comment

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 98.7 % 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)*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 03.04.2018

by 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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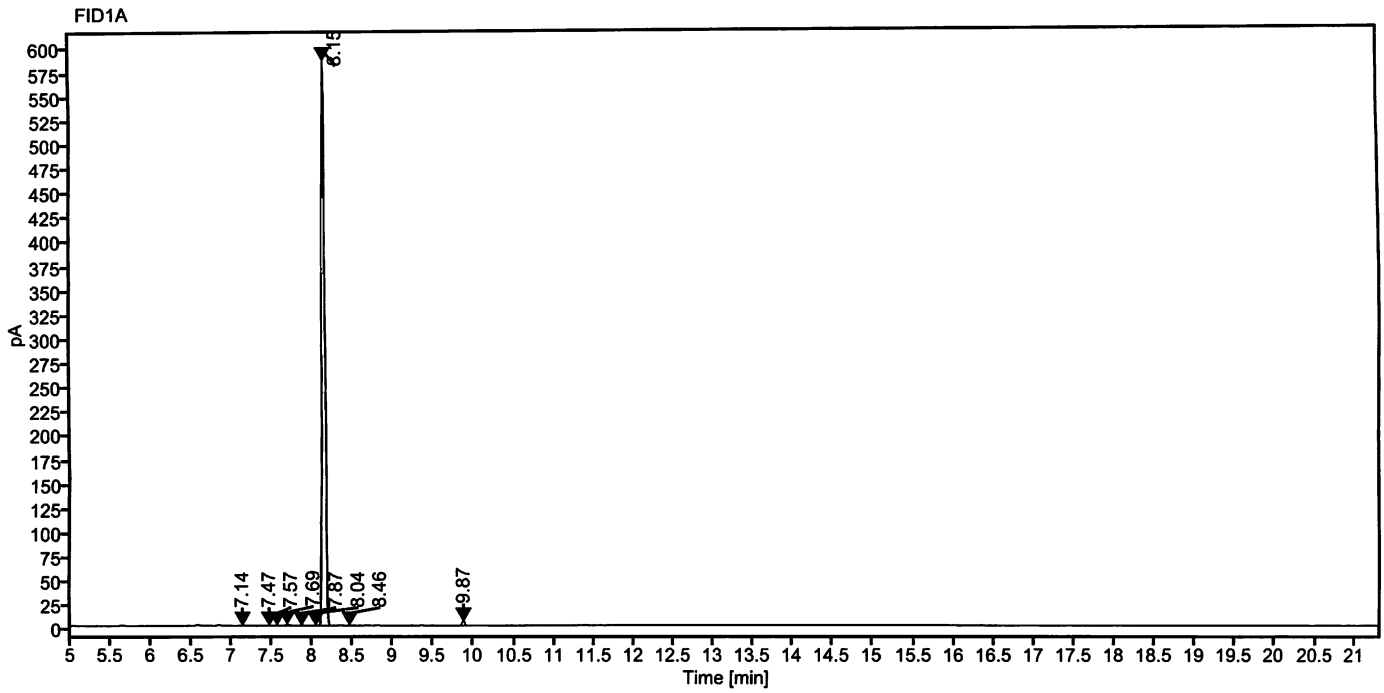
Data file:	17923100-29-r001.dx	**Instrument:**	FID 3
Sample name:	80309ME 170284	**Sequence Name:**	2018KW10-5a
Inj. volume [µl]:	1.0	**Injection date:**	3/10/2018 3:28:15 AM
Acq. method:	200.amx	**Location:**	57
Sample Description	4-Vinyl-1-cyclohexene		



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	7.14	0.91736	0.24	0.06	0.046
2	7.47	1.72674	0.32	0.11	0.091
3	7.57	0.99929	0.33	0.06	0.104
4	7.69	3.90395	1.37	0.25	0.123
5	7.87	1.31808	0.31	0.08	0.137
6	8.04	1.01077	0.33	0.06	0.116
7	8.15	1548.36760	583.32	98.75	0.206
8	8.46	0.94825	0.31	0.06	0.125
9	9.87	8.71556	4.25	0.56	0.135
	Sum	1567.91			