

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

10572200 Benzyl cyanide
CA Benzeneacetonitrile
IUPAC Phenylacetonitrile
Formula C₈H₇N
Mol.Weight 117.15
CAS No. 140-29-4

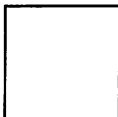
Expiry Date 04.07.2024

Lot Number 170634

Store at 20 °C ±4 °C

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

Toxicological Data



R Code 24/25/26

S Code 23-36/37-45

LD50 (Rats female/male in mg/kg) 270

Physical Data

Phase liquid

Color colourless

Melt.Range

Vapour pressure 0,1 hPa at 20 °C

Solubility in water 117.2 g/l at 20 °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: 10.83 min.

Method Details:

Injector: 280° C

Start Temperature: 60° C for 5 min

End Temperature: 280° C for 1 min

Gradient: 15° C/min

Identity: EA, IR, NMR, RT, MS

Comment Purity was determined by chromatographic assay corrected by water and/or residue solvents.

Water Content 0.2 % Determined by Karl-Fischer Titration

Det. Purity 98.6 % 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 $U_c(y) \cdot K$, 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 04.07.2018

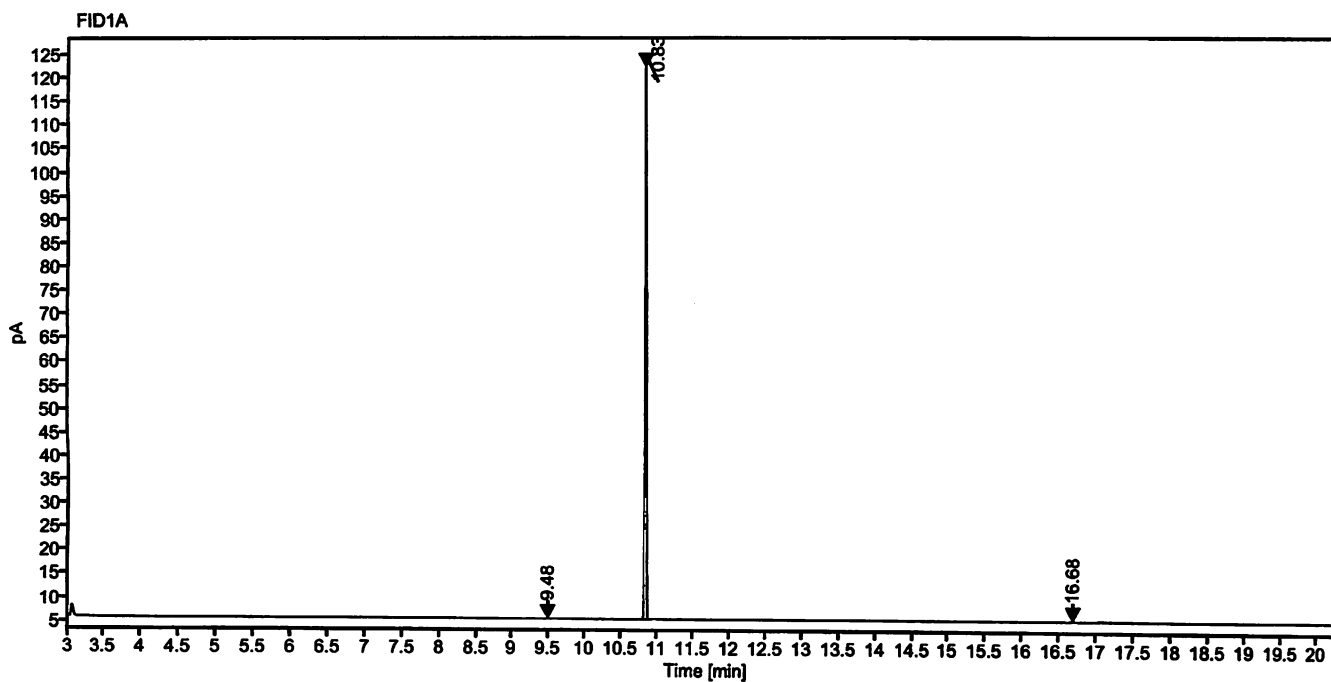
by M. Beck

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.

LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

0357 MS

Data file: 10572200-17-r001.dx Instrument: FID 3
Sample name: 80608AL 170634 Sequence Name: 2018KW24-FID3-0614b
Inj. volume [µl]: 1.0 Injection date: 6/15/2018 12:39:58 AM
Acq. method: PESK.amx Location: 111
Sample Description Benzyl cyanide



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	9.48	0.26600	0.18	0.18	0.021
2	10.83	148.70256	116.71	99.56	0.119
3	16.68	0.39613	0.27	0.27	0.061
	Sum	149.36			

G. Beer