

# Certificate of Analysis

**EHRENSTORFER™**

## Product Identification

17688000 Trichloroacetonitrile  
CA Acetonitrile, 2,2,2-trichloro-  
IUPAC Trichloroacetonitrile  
Formula C<sub>2</sub>Cl<sub>3</sub>N  
Mol.Weight 144.39  
CAS No. 545-06-2

Expiry Date 05.07.2022  
Lot Number 170283  
Store at 20 °C ±4 °C

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

## Toxicological Data



R Code 23/24/25-51/53

S Code 45-61

LD50 (Rats female/male in mg/kg) 250

## Physical Data

Phase liquid  
Color colourless  
Melt.Range  
Vapour pressure 80mmHg at 26 °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: 4.47 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, MS, EA

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

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 99.9 % 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  $U_c(y) \cdot K$ , 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 05.07.2018

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.

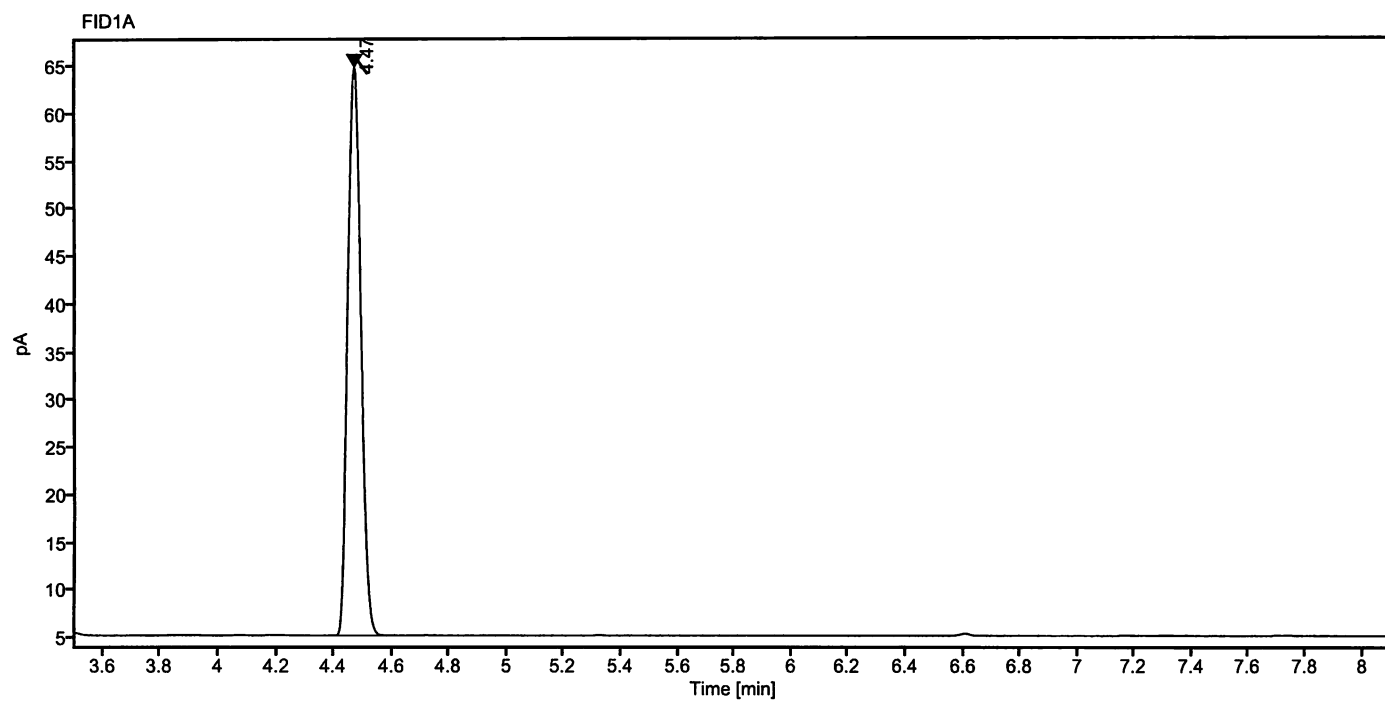
LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany  
Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com  
The warranty for this product is limited to the purchasing price of this product.

0357 AS

Data file: 17688000-02-r002.dx  
Sample name: 80613AC 170283  
Inj. volume [µl]: 1.0  
Acq. method: VOC.amx

Instrument: FID 3  
Sequence Name: 2018KW24-FID3-0612a  
Injection date: 6/12/2018 9:43:39 AM  
Location: 24

Sample Description Trichloroacetonitrile



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	4.47	189.73185	59.57	100.00	0.196
	Sum	189.73			

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