

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

11070000 Cetrimide

CA Tetradecyltrimethylammoniumbromide

IUPAC Tetradecyltrimethylammoniumbromide

Formula C<sub>17</sub>H<sub>38</sub>BrN

Mol.Weight 336,39

CAS No. 1119-97-7

## Reference Materials for Residue Analysis

Expiry Date 12.10.2023

Lot Number 143229

Store at 20 °C ±4 °C

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

## Toxicological Data



R Code 34-20/21/22

S Code 26-27-36/37/39

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

## Physical Data

Phase crystalline solid

Color colourless

Melt.Range dec240,2 °C

Vapour pressure NA at °C

Solubility in water NA g/l at °C

Boiling Range (lit.)

## Analytical Data

Detection: HPLC/DAD

Column:

Inj.-Vol.: 10.00 µl

Flow: 0.5 ml/min

Ret.-Time: 24.00 min.

Method Details:

Eluent A: Acetonitrile:H<sub>2</sub>O 1:9 for 2 min

Eluent B: Acetonitrile 100% for 5 min

Eluent A -> Eluent B: 45 min

Identity: RT, IR, MS, EA, NMR

Comment Column: Nucleodur C18 Pyramid 3 µm 150 x 3 mm  
No chromatogram available.

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 98.0 % 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  $U_c(y) \cdot K$ , 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 12.10.2017

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.

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The warranty for this product is limited to the purchasing price of this product.