

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

11824500 Cyclohexane  
CA Cyclohexane  
IUPAC Cyclohexane  
Formula C<sub>6</sub>H<sub>12</sub>  
Mol.Weight 84.16  
CAS No. 110-82-7

## Reference Materials for Residue Analysis

Expiry Date 20.02.2020  
Lot Number 31202  
Store at 20 °C ±4 °C

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

## Toxicological Data



R Code 11-38-65-67-53  
S Code 16-22-46-60-61-62  
LD50 (Rats female/male in mg/kg) 12705

## Physical Data

Phase	liquid	Vapour pressure	104 at 20 °C
Color	colourless	Solubility in water	0.05 g/l at 20 °C
Melt.Range		Boiling Range (lit.)	

## Analytical Data

Detection: HPLC/DAD  
Column: ReproSil 100 C18 5µ 250x3  
Inj.-Vol.: 10.00 µl  
Flow: 1.0 ml/min  
Ret.-Time:

Method Details:  
Acetonitrile:H<sub>2</sub>O 4:1

## Identity:

Comment No chromatogram available.

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 20.02.2014

by M. Beck

The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DAkkS as indicated by the Accreditation Number D-RM-14174-01 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.