

Certificate of Analysis

Dr. Ehrenstorfer




Reference Materials for Residue Analysis

Product Identification

14866020 (-)-Menthol
CA 5-Methyl-2-(1-methylethyl)cyclohexanol
IUPAC (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol
Formula C₁₀H₂₀O
Mol.Weight 156.27
CAS No. 2216-51-5

Expiry Date 23.01.2017
Lot Number 21219
Store at 20 °C ±4 °C

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

Toxicological Data  R Code 37/38-41 S Code 22-25 LD50 (Rats female/male in mg/kg) 3300	Physical Data Phase crystalline solid Color colourless Melt.Range 43.3 °C Vapour pressure N/A at °C Solubility in water insol. 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: 12.22 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: RT Comment Purity was determined by external standard method.	
Water Content 0.1 % Determined by Karl-Fischer Titration Det. Purity 99.5 % 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 $Uc(y) \cdot K$, 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 23.01.2013

by A. Storr

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.

