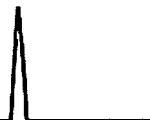


Certificate of Analysis

Dr. Ehrenstorfer




Reference Materials for
Residue Analysis

Product Identification

10303000 L-(+)-Ascorbic acid
CA 3-keto-L-Gulofuranolactone
IUPAC 3-Oxo-L-gulofuranolactone
Formula C₆H₈O₆
Mol.Weight 176.12
CAS No. 50-81-7

Expiry Date 17.12.2016
Lot Number 31218
Store at 20 °C ±4 °C

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

Toxicological Data  R Code S Code LD50 (Rats female/male in mg/kg) 11900	Physical Data Phase crystalline solid Color colourless Melt.Range Vapour pressure N/A at °C Solubility in water 176 g/l at 20 °C Boiling Range (lit.)
Analytical Data Detection: HPLC/DAD Column: ReproSil 100 C18 5µ 250x3 Inj.-Vol.: 10.00 µl Flow: 0.5 ml/min Ret.-Time: 3.13 min. Method Details: Acetonitrile:H ₂ O+0,5% H ₃ PO ₄ 4:1	
Identity: UV, RT Comment Purity was determined by external standard method. Column: Lichrospher Diol 5 µm, 250 x 4 mm No chromatogram available	
Water Content 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)*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 16.01.2014

by Dipl. chem. S. Fischer

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.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 · Fax +49 821 9060888 · info@analytical-standards.com
The warranty for this product is limited to the purchasing price of this product.