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 03.07.2015

Lot Number D057B

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: 1.0 ml/min

Ret.-Time: **3.13 min.**

Method Details:

Acetonitrile:H2O+0,5% H3PO4 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 100.0 % 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)*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 accreditated 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.