

Certificate of Analysis



Product Identification

15557600 4-Nitrobenzoic acid

CA 4-Nitrobenzoic acid

IUPAC 4-Nitrobenzoic acid

Formula C₇H₅NO₄

Mol.Weight 167.12

CAS No. 62-23-7

Expiry Date 07.08.2024

Lot Number 173820

Store at 20 °C ±4 °C

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

Toxicological Data



R Code 36/37/38-22

S Code 26-36-22

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

Physical Data

Phase crystalline solid

Color colourless

Melt.Range 240,7 °C

Vapour pressure N/A at °C

Solubility in water N/A g/l at °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:

Method Details:

Acetonitrile:H₂O+0,5% H₃PO₄ 4:1

Identity: UV, RT, EA, NMR

Comment Colour of the lot is yellowish due to unknown impurities.

Purity was determined by elemental analysis

No chromatogram available.

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 99.5 % Tolerance/Uncertainty +/- 1.0 %

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 $Uc(y) \cdot K$, 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 07.08.2018

by Dr. K. Wörmann

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.

LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.