Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for Residue Analysis

Product Identification

12400000 2,4-Dichlorobenzoic acid

CA 2,4-Dichlorobenzoic acid

IUPAC 2,4-Dichlorobenzoic acid

Formula C7H4Cl2O2

Mol.Weight 191.01

CAS No. 50-84-0

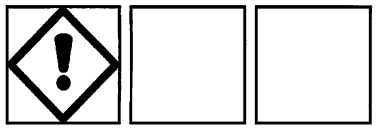
Expiry Date 11.09.2023

Lot Number 149913

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

S Code 22-25-36

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

Physical Data

Phase	crystalline solid	Vapour pressure N/A at °C
Color	colourless	Solubility in water N/A g/l at °C
Melt.Range		Boiling Range (lit.)

Analytical Data

Identity: NMR, MS, IR, UV, RT

Comment For method information see chromatogram.

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 99.3 % 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)*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 11.09.2017

by N. Müller

The Laboratory LGC Labor GmbH is accreditated 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.

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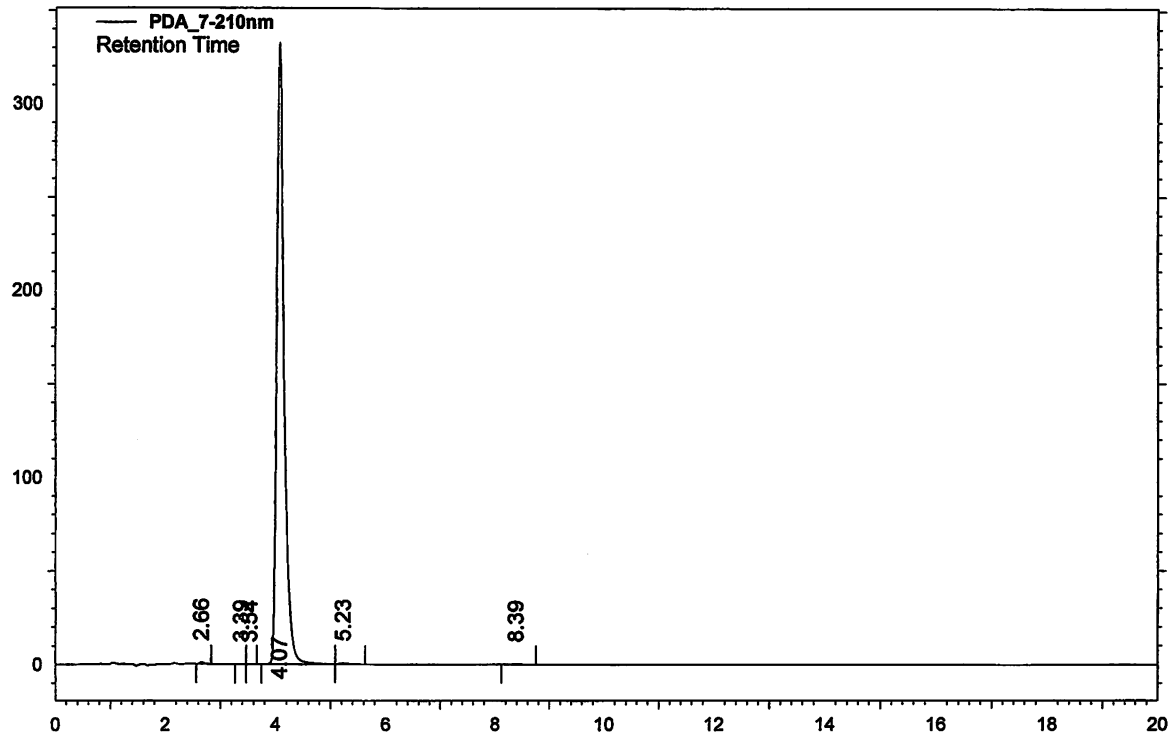
HPLC Conditions:

Column:	Conditions:	Detector:	Injector:
RP 60 Select B	1.0 ml/min, 40 °C	DAD	Auto
5 µm, 125 x 4 mm	Water/Acetonitrile 60/40 (v/v); 0.1 % H_3PO_4	210 nm	3 µl; 0.03192 mg/ml in Water/Acetonitrile 50/50 (v/v)

M.09.17



Area Percent Report - Sorted by Signal

Pk #	Retention Time	Area	Area %
1	2.66	5642	0.18
2	3.39	1045	0.03
3	3.54	964	0.03
4	4.07	3068425	99.33
5	5.23	9643	0.31
6	8.39	3414	0.11
Totals		3089133	100.00