

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

10580500 Bifenox (free acid)
CA Benzoic acid, 5-(2,4-dichlorophenoxy)-2-nitro-
IUPAC 5-(2,4-dichlorophenoxy)-2-nitrobenzoic acid
Formula C₁₃H₇Cl₂NO₅
Mol.Weight 328.11
CAS No. 53774-07-5

Reference Materials for Residue Analysis

Expiry Date 17.02.2022
Lot Number 116361
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) N/A

Physical Data

Phase crystalline solid
Color yellowish
Melt.Range 168,6 °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
Flow: 0.5 ml/min
Ret.-Time: 9.10 min.

Method Details:

Eluent A: Acetonitrile:H₂O+0,5% H₃PO₄ 2:3 for 2 min
Eluent B: Acetonitrile:H₂O+0,5% H₃PO₄ 9:1 for 10 min
Eluent A -> Eluent B: 33 min

Identity: RT, UV, EA, MS, NMR
Comment Inj.-Vol.: 5 µl

Water Content 0.0 % Determined by Karl-Fischer Titration
Det. Purity 99.0 % 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 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 17.02.2017

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.

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The warranty for this product is limited to the purchasing price of this product.

Sample Name: 70120AL 116361

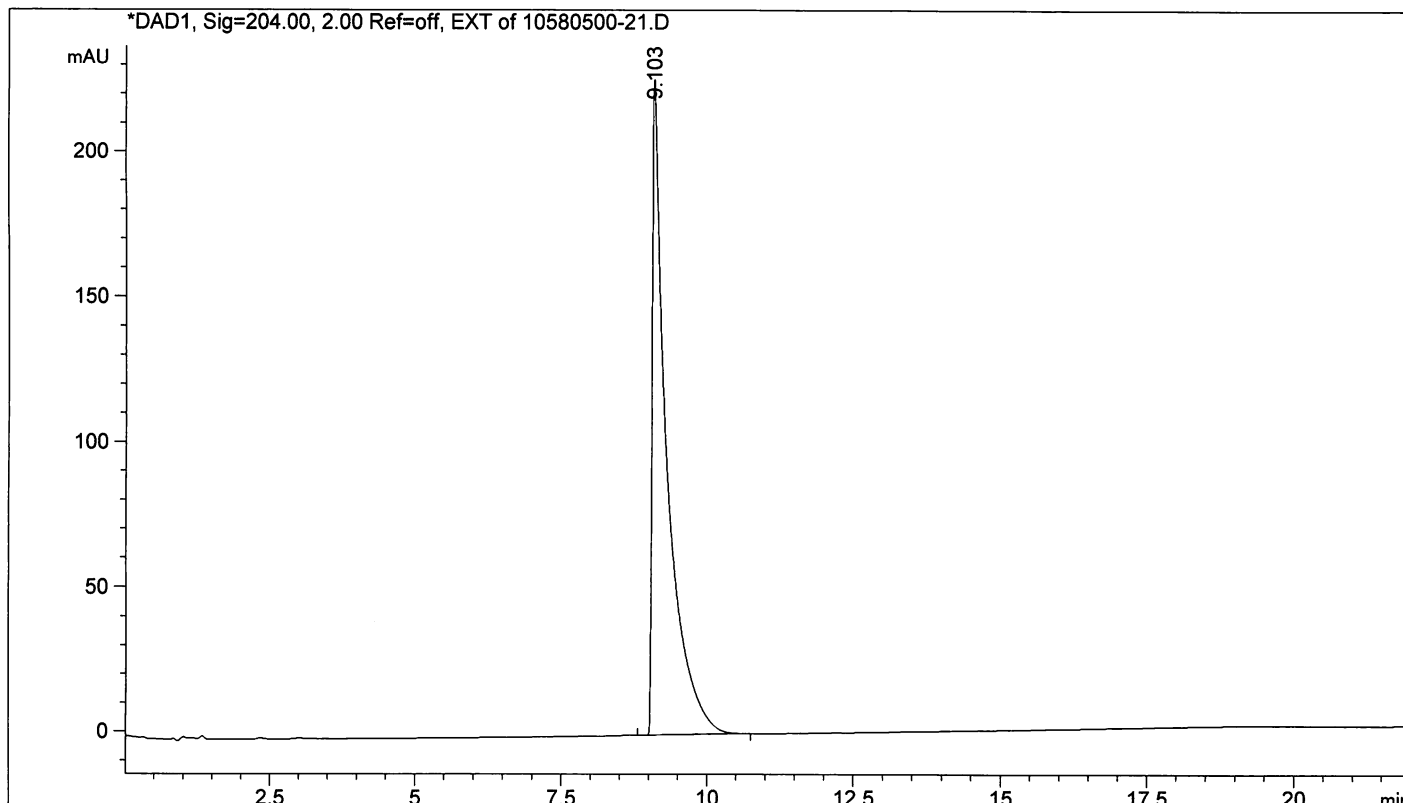
20.1.17 HG

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Acq. Operator   : SYSTEM                               Seq. Line :   86
Acq. Instrument : LCMS                               Location  :   11
Injection Date  : 25.01.2017 06:42:43                Inj       :    1
                                                    Inj Volume: 10.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 5.000 µl
Acq. Method     : C:\Chem32\1\Data\2017KW04\240117-2 2017-01-24 12-51-25\PAHK1P.M
Last changed    : 24.01.2017 12:51:29 by SYSTEM
Analysis Method : L:\GERÄTE BACKUP\DAD4\METHODS\PAHK1P.M
Last changed    : 20.10.2016 14:02:34 by SYSTEM
Method Info     : Gradient for PAH's + H3PO4, 220 nm

Sample Info     : Bifenox (free acid)
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                          Area Percent Report
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Sorted By           :      Retention Time
Multiplier          :      1.0000
Dilution            :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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Signal 1: DAD1, Sig=204.00, 2.00 Ref=off, EXT
Signal has been modified after loading from rawdata file!

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Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	9.103	1	BB	3968.13916	226.44489	100.0000

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Totals :                3968.13916  226.44489
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*** End of Report ***
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