

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

10580500 Bifenox (free acid)  
CA 5-(2,4-dichlorophenoxy)-2-nitrobenzoic acid  
IUPAC 5-(2,4-dichlorophenoxy)-2-nitrobenzoic acid  
Formula C<sub>13</sub>H<sub>7</sub>Cl<sub>2</sub>NO<sub>5</sub>  
Mol.Weight 328.11  
CAS No. 53774-07-5

## Reference Materials for Residue Analysis

Expiry Date 27.06.2017  
Lot Number 20612  
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 Vapour pressure N/A at °C  
Color yellowish Solubility in water N/A g/l at °C  
Melt.Range 170.1 °C Boiling Range (lit.)

## Analytical Data

Detection: HPLC/DAD Method Details:  
Column: ReproSil 100 C18 5µ 250x3 Acetonitrile:H<sub>2</sub>O+0,5% H<sub>3</sub>PO<sub>4</sub> 4:1  
Inj.-Vol.: 10.00 µl  
Flow: 1.0 ml/min  
Ret.-Time: 1.80 min.

Identity: RT, UV  
Comment purity was confirmed by external standard method

Water Content 0.1 % 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<sub>c</sub>(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 27.06.2012

by P. Feuerriegel



REG.NO.: 2874 - 01

The Laboratory Dr. Ehrenstorfer-Schäfers is accredited by DAR as indicated by the Accreditation Certificate DGA-PL-4536.00 based on DIN EN ISO/IEC 17025:2005 for the weighing of amounts of substances for the preparation of standard solutions.

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



27612  
*[Signature]*

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Acq. Operator	: Dr. Heidrich	Seq. Line	: 148
Acq. Instrument	: Instrument 1	Location	: Vial 54
Injection Date	: 24.06.2012 08:51:28	Inj	: 1
		Inj Volume	: 10.000 µl

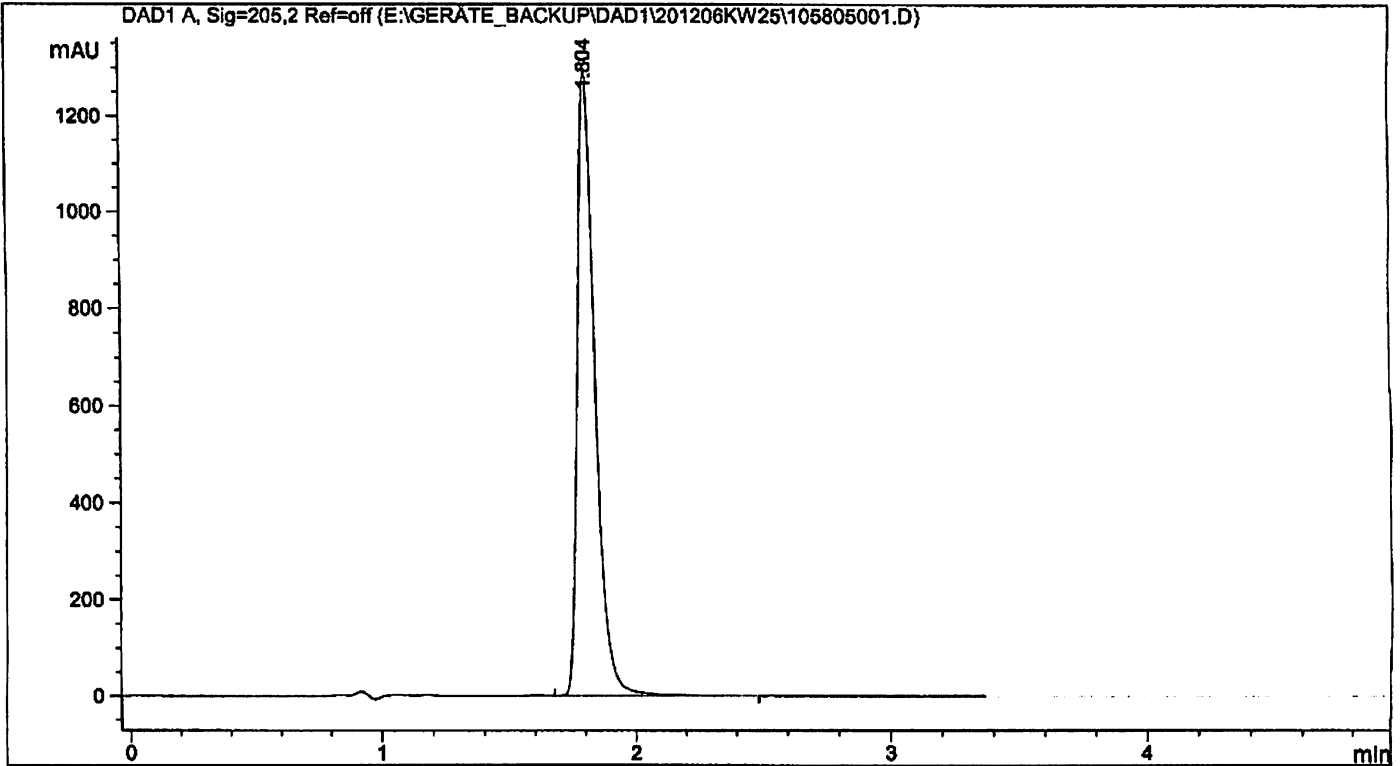
  

Acq. Method	: D:\CHEM32\1\METHODS\41PK.M
Last changed	: 02.05.2012 09:00:47
Analysis Method	: E:\GERÄTE_BACKUP\DAD1\METHODS\41PK.M
Last changed	: 02.05.2012 09:00:47
Method Info	: Acetonitrile : Water + 0.5 % H3PO4 4:1+

Sample Info	: Bifenox (free acid)
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Additional Info : Peak(s) manually integrated



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Area Percent Report  
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Sorted By : Retention Time  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=205,2 Ref=off

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	1.804	1	BB	6290.78076	1297.94519	100.0000

Totals : 6290.78076 1297.94519

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\*\*\* End of Report \*\*\*