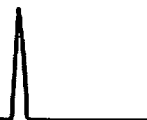


Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

16057900 1,3-Phenylenediamine

CA 1,3-Diaminobenzene

IUPAC 1,3-Diaminobenzene

Formula C₆H₈N₂

Mol.Weight 108.14

CAS No. 108-45-2

Reference Materials for Residue Analysis

Expiry Date 05.09.2012

Lot Number 10803

Store at 20 °C ± 4 °C

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

Toxicological Data



R Code 23/24/25-36-43-50/53

S Code 26-28-36-45-46-61

LD50 (Rats female/male in mg/kg) 280

Physical Data

Phase crystalline solid

Vapour pressure 0.62 mmHg at 100 °C

Color grey-yellow to brown

Solubility in water 38 g/l at 20 °C

Melt.Range 63.6 °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Method Details:

Column: ReproSil 100 C18 5µ 250x3

Acetonitrile:H₂O+0,5% H₃PO₄ 9:1

Inj.-Vol.: 10,00 µl

Flow: 1,0 ml/min

Ret.-Time: 1,11 min.

Identity: MS, RT

Comment Purity was determined by external standard method.
Substance is very sensitive to light.

Water Content Determined by Karl-Fischer Titration

Det. Purity 99,5 % 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 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 24.10.2011

by C. Neukom



The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DGA 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.



Sample Name: 10803

06.10.11

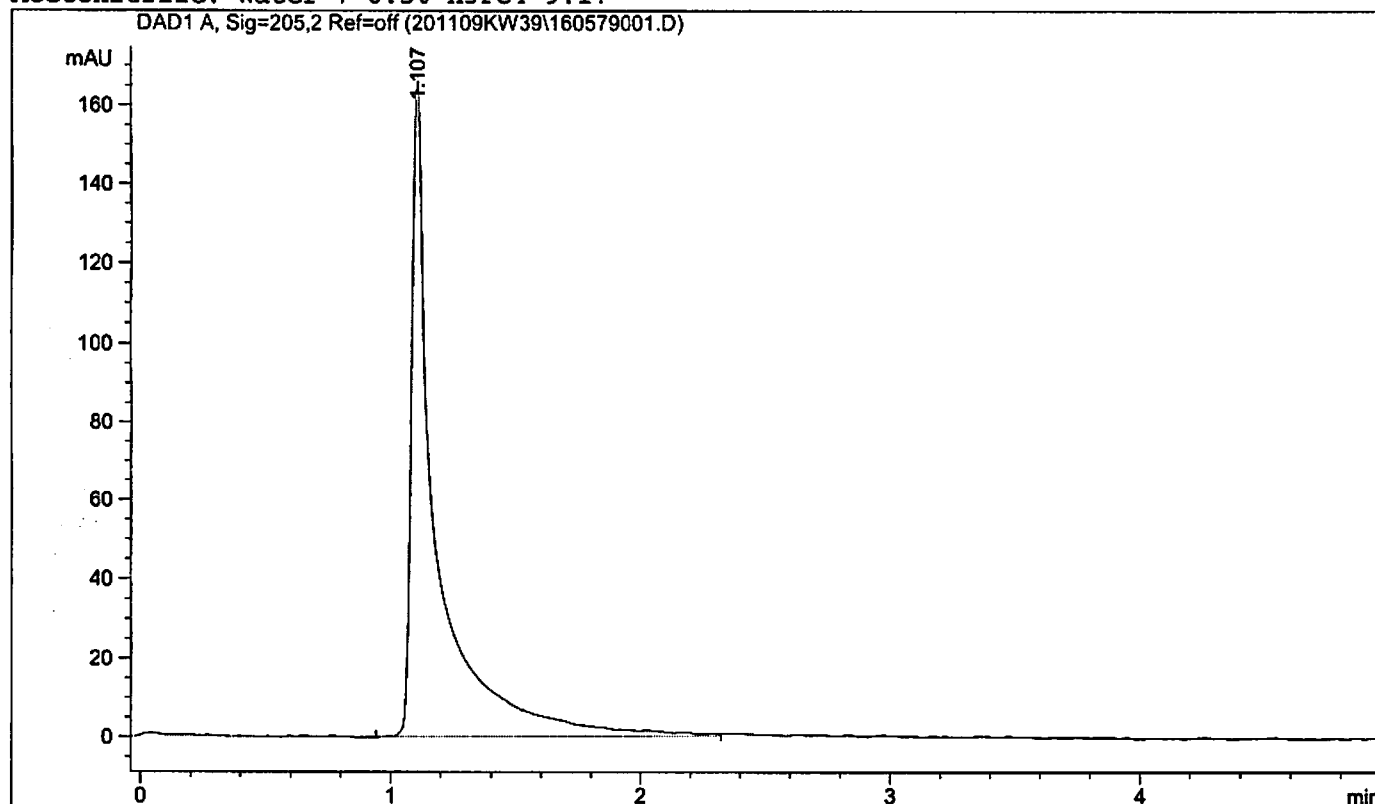
Li

1,3-Phenylenediamine

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Injection Date	: 05.10.2011 22:28:09	Seq. Line	: 43
Sample Name	: 10803	Location	: Vial 1
Acq. Operator	:	Inj	: 1
Acq. Instrument	: Instrument 1	Inj Volume	: 10 µl
Different Inj Volume from Sequence !	Actual Inj Volume	: 1 µl	
Sequence File	: D:\CHEM32\1\SEQUENCE\1.S		
Method	: D:\CHEM32\1\METHODS\91PK.M		
Last changed	: 22.09.2011 15:57:21		
Acetonitrile: Water + 0.5% H3PO4	9:1+		

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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	1.107	1	BV	1164.35278	166.81818	100.0000

Totals : 1164.35278 166.81818

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*** End of Report ***

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