

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

12197900 3,4-Diaminotoluene
CA 1,2-Benzenediamine, -4-methyl
IUPAC 4-Methyl-o-phenylenediamine
Formula C₇H₁₀N₂
Mol.Weight 122.17
CAS No. 496-72-0

Reference Materials for Residue Analysis

Expiry Date 21.07.2019
Lot Number 151662
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	grey-yellow to brown	Solubility in water	N/A g/l at °C
Melt.Range		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: 1.19 min.

Method Details:
Acetonitrile:H₂O+0,5% H₃PO₄ 4:1

Identity: RT, UV, MS
Comment Purity was determined by external standard method.

Water Content 0.3 % Determined by Karl-Fischer Titration
Det. Purity 99.7 % 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 24.08.2017

by M. Beck

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.

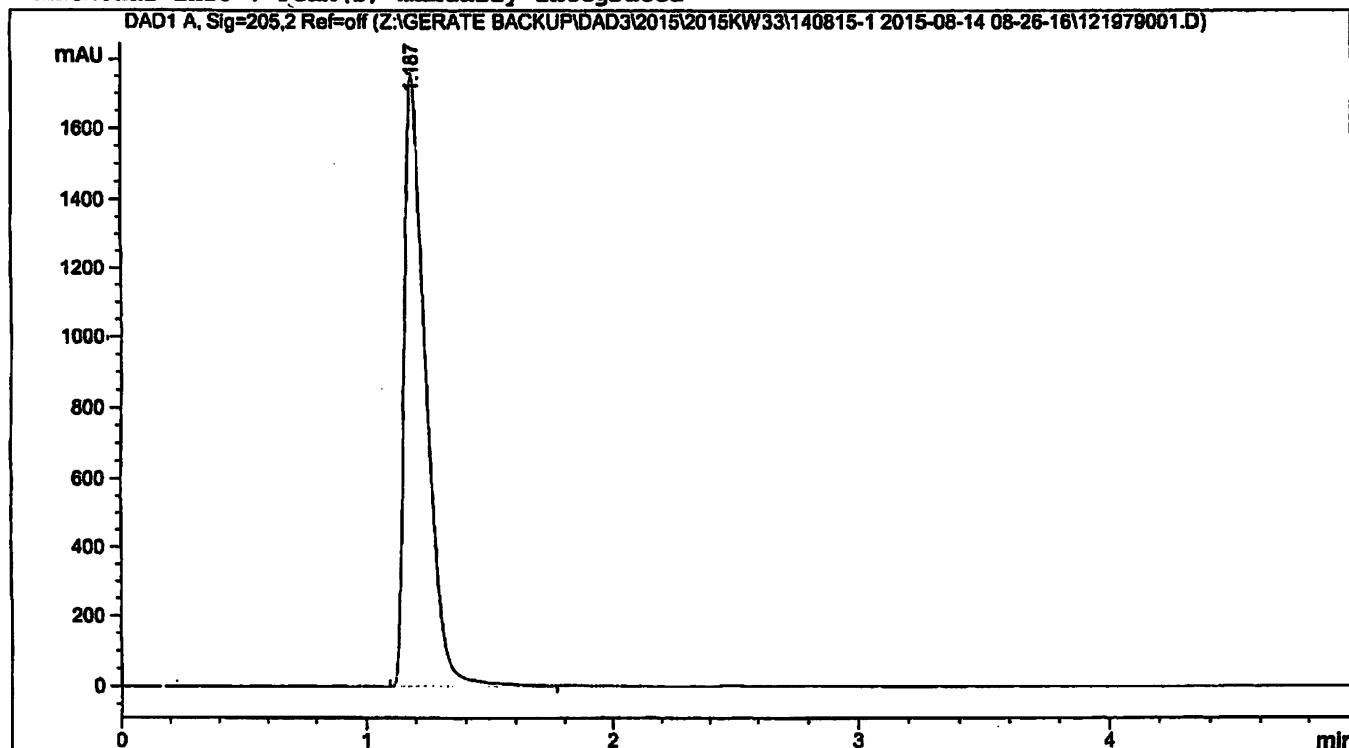
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The warranty for this product is limited to the purchasing price of this product.

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Acq. Operator	: DAD3_Admin	Seq. Line	: 33
Acq. Instrument	: DAD3	Location	: Vial 14
Injection Date	: 14.08.2015 15:29:48	Inj	: 1
		Inj Volume	: 10.000 µl
Acq. Method	: C:\CHEM32\1\DATA\2015KW33\140815-1 2015-08-14 08-26-16\41PK.M		
Last changed	: 11.05.2015 14:27:10 by DAD3_Admin		
Analysis Method	: Z:\GERÄTE BACKUP\DAD3\METHODS\41PK.M		
Last changed	: 11.05.2015 14:27:10 by DAD3_Admin		
Method Info	: Acetonitrile Water 4:1 + 0.5 % H3PO4		
Sample Info	: 3,4-Diaminotoluene		

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Additional Info : Peak(s) manually integrated



Area Percent Report

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	1.187	1	VV	1.04211e4	1759.90564	100.0000

Totals : 1.04211e4 1759.90564

*** End of Report ***