

Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for
Residue Analysis

Product Identification

10648000 Bis-(4-aminophenyl)methane

CA [12-(4-Ethylphenyl)-dodecyl]-2-nitrophenylether

IUPAC 4,4'-Methylenedianiline

Formula C13H14N2

Mol.Weight 198.26

CAS No. 101-77-9

Expiry Date 17.06.2013

Lot Number 90220

Store at 20 °C ±4 °C

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

Toxicological Data



R Code 23/24/25-39-43-45-48/23-51/53-68

S Code 45-53-61

LD50 (Rats female/male in mg/kg) 517

Physical Data

Phase crystalline solid

Color yellowish

Melt.Range 91.9 °C

Vapour pressure 1 hPa at 197 °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: GC/FID

Column: DB-5, 30 m, ID 0.25 mm

Inj.-Vol.: 1,00 µl

Flow: 1,0 ml/min

Ret.-Time: 25,84 min.

Method Details:

Injector: 320° C

Start Temperature: 120° C for 4 min

End Temperature: 320° C for 6 min

Gradient: 5° C/min

Identity: RT, UV

Comment Purity was determined by external standard method.

Water Content

Determined by Karl-Fischer Titration

Det. Purity 99,0 %

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 $U_c(y) \cdot K$, 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 17.06.2009

by Fr. Vlcek



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.

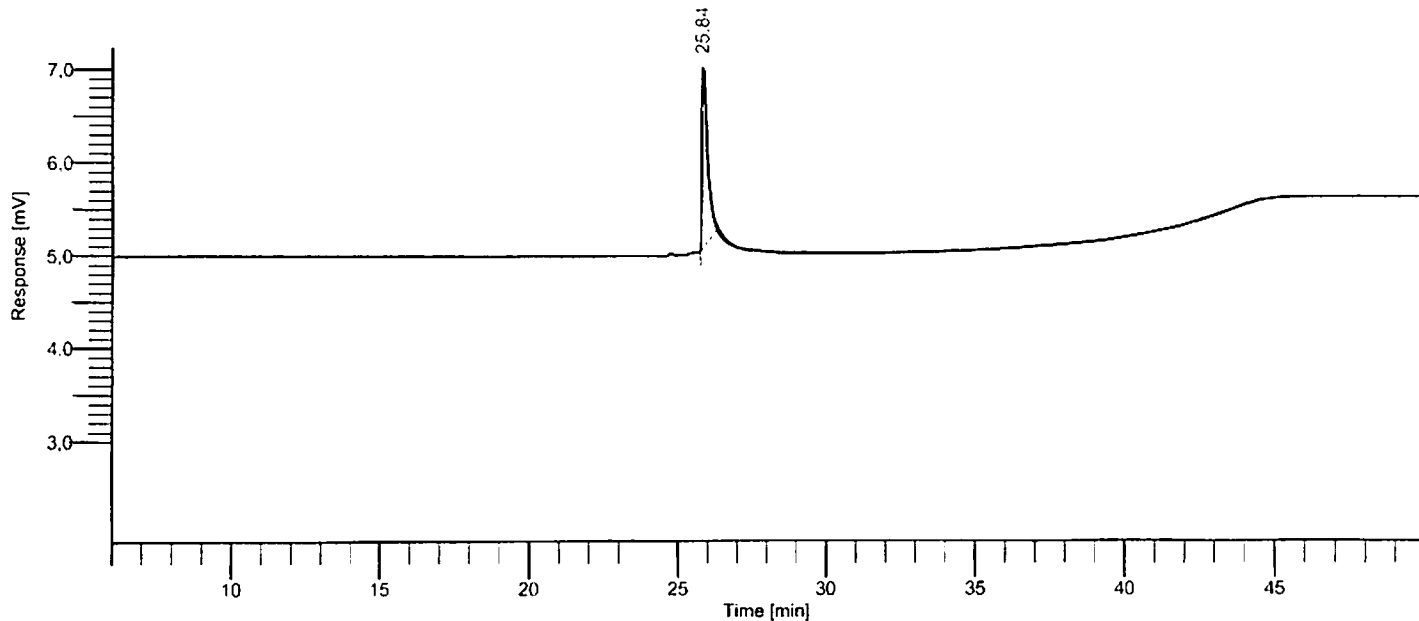
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The warranty for this product is limited to the purchasing price of this product.



Software Version : 6.3.1.0504
Sample Name : Bis-(4-aminophenyl)methane,100ng,pah
Instrument Name : PE-FID
Rack/Vial : 0/67
Sample Amount : 1,000000
Cycle : 134

Date : 04.05.2009 13:20:47
Data Acquisition Time : 03.05.2009 19:09:19
Channel : A
Operator : Ehrenstorfer
Dilution Factor : 1,000000

Result File : D:\TC-Daten\Daten\2009\05\10648000_90220_90310ME-001.rst
Sequence File : D:\TC-Daten\Sequenzen\90429.seq



Labor Dr. Ehrenstorfer-Schäfers

| Peak # | Time [min] | Area [uV*sec] | Height [uV] | Area [%] | BL |
|--------|------------|---------------|-------------|----------|----|
| 1 | 25,835 | 28849,02 | 3029,17 | 100,00 | BB |
| | | 28849,02 | 3029,17 | 100,00 | |

Operator:

Approved by: