

Certificate of Analysis

Dr. Ehrenstorfer



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

Reference Materials for Residue Analysis

Expiry Date 07.02.2014
Lot Number 80123
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 Vapour pressure 1 hPa at 197 °C
Color yellowish Solubility in water NA g/l at °C
Melt.Range 90,3 °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: 29.93 min.

Method Details:
Injector: 320° C
Start Temperature: 110° C for 5 min
End Temperature: 320° C for 8 min
Gradient: 5° C/min

Identity: RT
Comment

Water Content Determined by Karl-Fischer Titration
Det. Purity 97.5 % 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 $Uc(y) \cdot K$, 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 07.02.2008

by Dr. J. Heidrich



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.



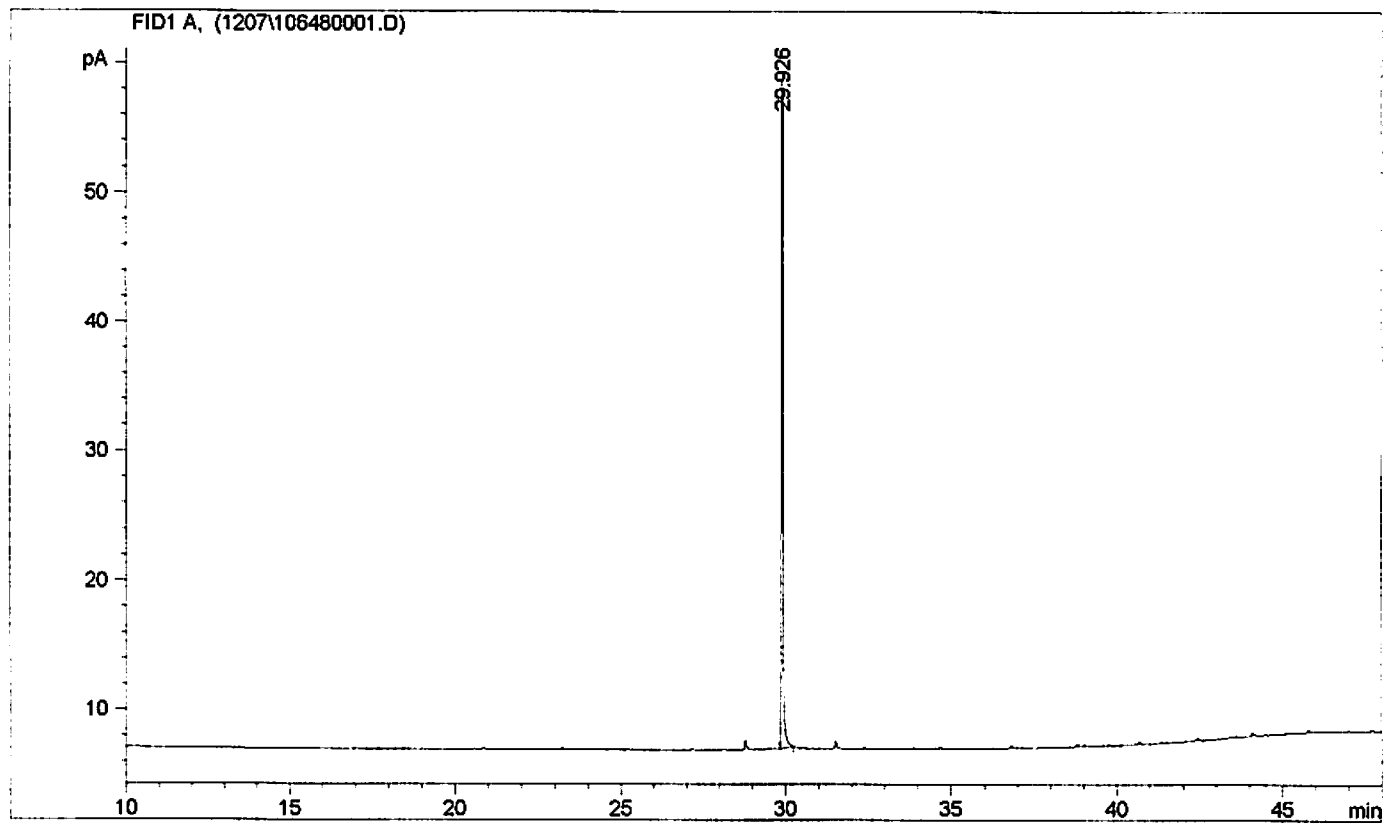
Sample Name: 80123 80123ME

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Acq. Operator   : MK                               Seq. Line :   18
Acq. Instrument : Instrument 1                     Location  : Vial 27
Injection Date  : 06.02.2008 11:03:48            Inj       :    1
                                                Inj Volume: 1 µl
Different Inj Volume from Sequence !      Actual Inj Volume : 2 µl
Acq. Method     : C:\CHEM32\1\METHODS\PAH.M
Last changed    : 20.12.2007 13:22:45 by MK
Analysis Method : C:\CHEM32\1\METHODS\PAH.M
Last changed    : 07.02.2008 08:24:57 by MK
                (modified after loading)
Method Info     : pah
Sample Info     : Bis-(4-aminophenyl)-methane (4,4-Methylenediamine)
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                          Area Percent Report
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Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]
1	29.926	BB	0.0522	177.43675	51.50024

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Totals :                      177.43675  51.50024
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*** End of Report ***

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