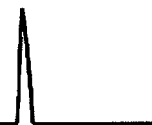


# Certificate of Analysis

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 C<sub>13</sub>H<sub>14</sub>N<sub>2</sub>

Mol.Weight 198.26


CAS No. 101-77-9

Expiry Date 06.05.2017

Lot Number 30326

Store at 20 °C ±4 °C

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

Toxicological Data	Physical Data
	Phase crystalline solid Color yellowish Melt.Range 90.2 °C
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	Vapour pressure 1 hPa at 197 °C Solubility in water N/A g/l at °C Boiling Range (lit.)
<b>Analytical Data</b> Detection: GC/FID Column: DB-5, 30 m, ID 0.25 mm Inj.-Vol.: 1.00 µl Flow: 1.0 ml/min Ret.-Time: 30.31 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 Purity was determined by external standard method. No chromatogram available.	
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 $U_c(y) \cdot K$ , 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 06.05.2013

by A. Storr

*V. M. Beck*

The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DAkkS as indicated by the Accreditation Number D-RM-14174-01 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.