

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

10427500 Basic Violet 3

CA Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-

IUPAC (4(bis(p-(dimethylamino)phenyl)methylene)cyclohexa-2,5-dien-1-ylidene)dimethylammonium

Formula C<sub>25</sub>H<sub>30</sub>CIN<sub>3</sub>

Mol.Weight 407.98

CAS No. 548-62-9


## Reference Materials for Residue Analysis

Expiry Date 09.12.2020

Lot Number 50204

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 green-blueish Melt.Range																								
R Code 22-38-40-41-53 S Code 25-36-60-61 LD50 (Rats female/male in mg/kg) 420	Vapour pressure N/A at °C Solubility in water N/A g/l at °C Boiling Range (lit.)																								
<b>Analytical Data</b> Detection: HPLC/DAD Column: Inj.-Vol.: 10.00 µl Flow: 1.0 ml/min Ret.-Time: 7.99 min.	Method Details:																								
Identity: RT, UV Comment Main impurity: Congeners (about 5%) Column: Poroshell 120 EC-C18 (2.7µm, 4.6x50mm) Method Details: Eluent A: Acetonitrile Eluent B: WA + 1.7g/L Tetrabutylammoniumhydrogen sulfate + 0.7g/L Na <sub>2</sub> HPO <sub>4</sub> , pH=3.35																									
<table border="1"><thead><tr><th>Time[min]</th><th>Eluent A [%]</th><th>Eluent B [%]</th><th>Flow [ml/min]</th></tr></thead><tbody><tr><td>0</td><td>20</td><td>80</td><td>1</td></tr><tr><td>1</td><td>20</td><td>80</td><td>1</td></tr><tr><td>9</td><td>50</td><td>50</td><td>1</td></tr><tr><td>15</td><td>50</td><td>50</td><td>1</td></tr><tr><td>20</td><td>20</td><td>80</td><td>1</td></tr></tbody></table>	Time[min]	Eluent A [%]	Eluent B [%]	Flow [ml/min]	0	20	80	1	1	20	80	1	9	50	50	1	15	50	50	1	20	20	80	1	
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0	20	80	1																						
1	20	80	1																						
9	50	50	1																						
15	50	50	1																						
20	20	80	1																						
Water Content 4.1 % Det. Purity 87.4 %	Determined by Karl-Fischer Titration Tolerance/Uncertainty +/- 2.0 %																								
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 <sub>c</sub> (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 09.12.2015

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.

