

Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for
Residue Analysis

Product Identification

16950100 Simazine D10

CA 6-Chloro-N,N'-diethyl(1,3,5-triazine-2,4-diamine

IUPAC 2,4-Bis(pentadeuteroethylamino)-6-chloro-1,3,5-triazine

Formula C₇H₂CIN₅D₁₀

Mol. Weight 211.72

CAS No. 220621-39-6

Expiry Date 15.12.2017

Lot Number 21123

Store at 20 °C ± 4 °C

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

Toxicological Data



R Code 40-50/53

S Code 02-36/37-46-60-61

LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase crystalline solid

Color colourless

Melt. Range

Vapour pressure N/A at °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: 18.39 min.

Method Details:

Injector: 280° C

Start Temperature: 60° C for 5 min

End Temperature: 280° C for 1 min

Gradient: 15° C/min

Identity: RT, MS

Comment Chemical purity: 97.5 %; D10-atom enrichment: 99 %.
Purity was determined by external standard method.

Water Content

Determined by Karl-Fischer Titration

Det. Purity 96.5 %

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 15.04.2013

by P. Feuermiegel

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.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany

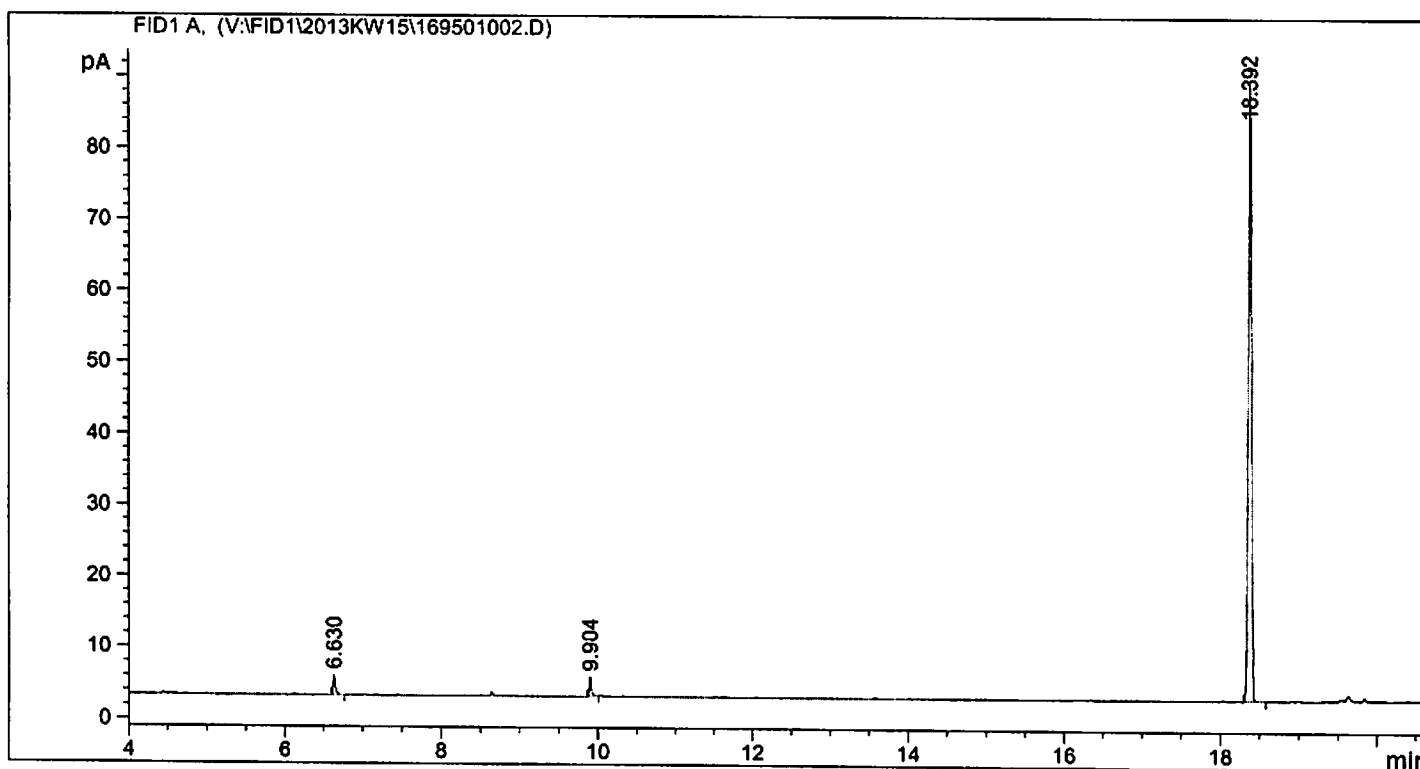
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The warranty for this product is limited to the purchasing price of this product.

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Acq. Operator   :                               Seq. Line :    1
Acq. Instrument : GCFID1                        Location  : Vial 1
Injection Date  : 4/12/2013 11:02:54 AM          Inj       :    2
                                                Inj Volume: 4 µl

Acq. Method     : C:\CHEM32\1\METHODS\PESK_4.M
Last changed    : 07.12.2012 09:17:40
Analysis Method : V:\FID1\METHODS\PESK_4.M
Last changed    : 15.04.2013 09:08:51 by Dr. Heidrich
                  (modified after loading)
Method Info     : pesk_4

Sample Info     : Simazine D10
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Area Percent Report
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Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	6.630	1	BB	5.51503	2.73042	2.14253
2	9.904	1	BB	4.91056	2.62011	1.90770
3	18.392	1	BB	246.98195	86.03034	95.94977

Totals : 257.40754 91.38088