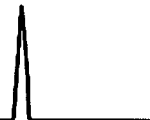


Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

11735000 Coumarin
CA 2H-1-Benzopyran-2-one
IUPAC 2H-1-Benzopyran-2-one
Formula C₉H₆O₂
Mol.Weight 146.15
CAS No. 91-64-5

Reference Materials for Residue Analysis

Expiry Date 22.02.2016
Lot Number 00114
Store at 20 °C ±4 °C

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

Toxicological Data



R Code 22

S Code 36

LD50 (Rats female/male in mg/kg) 293

Physical Data

Phase crystalline solid

Color colourless

Melt.Range 69,7 °C

Vapour pressure 0.01 mm Hg at 47 °C

Solubility in water 2.5 g/l at 20 °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5µ 250x3

Inj.-Vol.: 10,00 µl

Flow: 1,0 ml/min

Ret.-Time: 1,40 min.

Method Details:

Acetonitrile:H₂O+0,5% H₃PO₄ 4:1

Identity: UV, RT

Comment Purity was confirmed by external standard method.

Water Content 0,1 % Determined by Karl-Fischer Titration

Det. Purity 99,5 % 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 16.02.2010

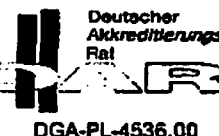
by Dr. J. Heidrich



02280:2014-01

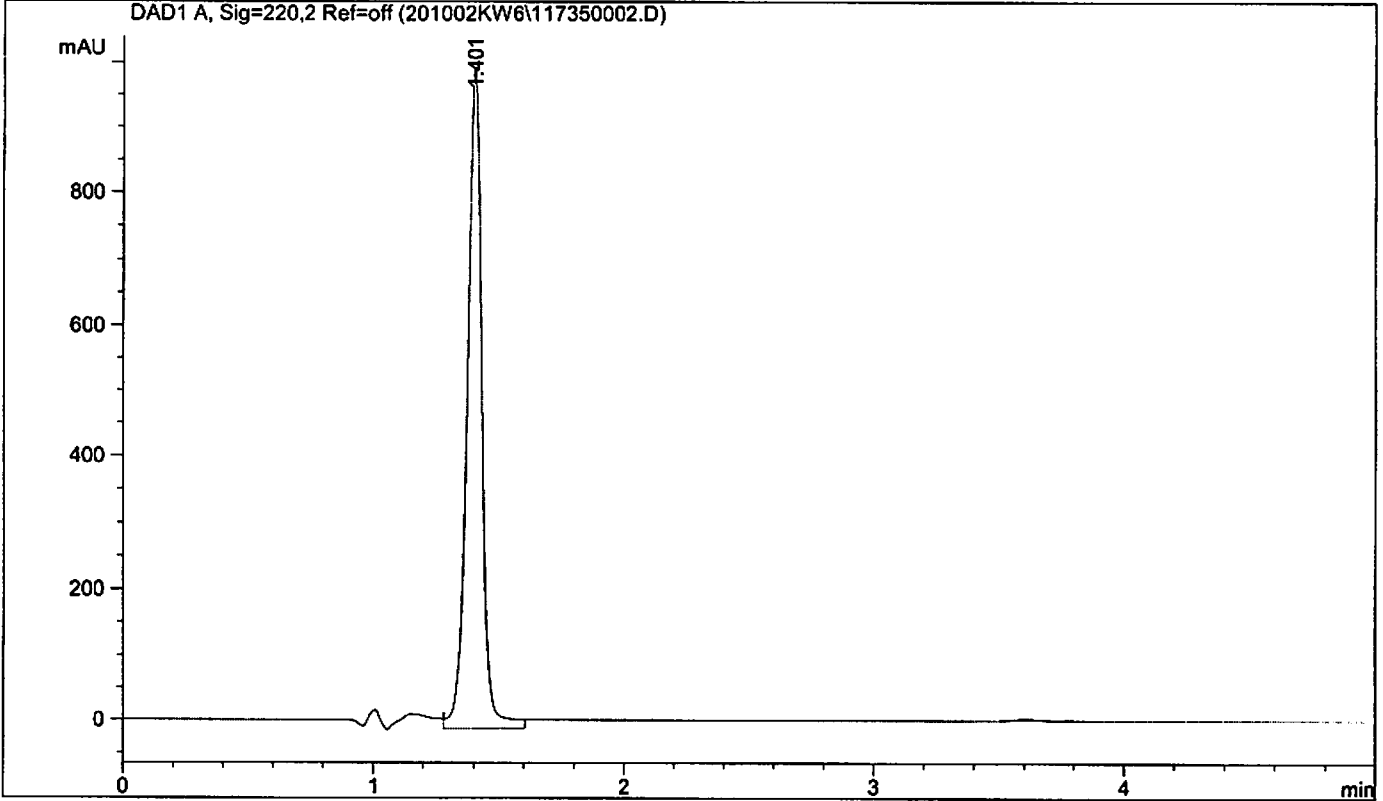
The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DGA as indicated by the Accreditation Certificate DGA-PL-4536.00 based on DIN EN ISO/IEC 17025:2005 for the weighing of amounts of substances for the preparation of standard solutions.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 Fax +49 821 9060888 info@analytical-standards.com
The warranty for this product is limited to the purchasing price of this product.



Coumarin

=====
Injection Date : 10.02.2010 08:35:23 Seq. Line : 43
Sample Name : 00114 00115ME Location : Vial 40
Acq. Operator : Heidrich Inj : 2
Acq. Instrument : Instrument 1 Inj Volume : 5 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 10 µl
Acq. Method : D:\CHEM32\1\METHODS\41PK220.M
Last changed : 10.02.2010 08:27:32 by Heidrich
 (modified after loading)
Analysis Method : D:\CHEM32\1\METHODS\41PK.M
Last changed : 21.01.2010 08:38:10 by Heidrich
Acetonitrile : Water + 0.5 % H3PO4 4:1+



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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: DAD1 A, Sig=220,2 Ref=off

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	1.401	1	VV	4055.92700	1009.80768	100.0000

Totals : 4055.92700 1009.80768

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*** End of Report ***
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