

Gravimetric Certificate



ISO 17034 Certified Reference Material

Product Identification

Article Code: DRE-L20965000CY
Article Name: 2-Nitrofluorene
Formula: C13H9NO2
Mol. Weight: 211.22
CAS No.: 607-57-8

Lot Number: H994280CY
Expiry Date: 11.12.2021
Storage Temperature: 20°C ± 4°C

Storage and handling: The CRM should be stored in the original sealed bottle at the temperature given above. After use the bottle should be tightly closed and protected from moisture and light. The expiry date is valid for original sealed bottles under recommended storage conditions only.

Gravimetric Data			
Compound Name:	Lot. No.:	Purity:	Weight:
2-Nitrofluorene	30222	99.8 %	7.017 mg
Batch Solvent:	Solvent Lot:	Batch size:	
Cyclohexane	I093411754	700.00 ml	
Concentration:	10.00 mg/l	Expanded Uncertainty U:	0.31 mg/l
<p>The uncertainty of this standard is calculated in accordance with the ISO 17034 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is $U(\text{exp}) = u(\text{CRM}) \times k$, where k is the coverage factor at the 95% confidence level ($k=2$). Uncertainty $u(\text{CRM})$ is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(\text{CRM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{Its})^2 + u(\text{sts})^2}$; $u(\text{char})$ is the uncertainty of characterisation; $u(\text{bb})$ uncertainty of homogeneity test; $u(\text{Its})$ uncertainty of stability test long-term; $u(\text{sts})$ uncertainty of stability test short-term. $u(\text{Its})$ and $u(\text{sts})$ are not included in the calculation as the stability statement is based on real evidence opposed to simulation.</p> <p>Minimum sample: 1 ml is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half sample and a factor of four for a quarter of sample.</p> <p>Intended use: Use this CRM as calibrant for chromatography or any other analytical technique.</p>			
Analytical Data			
Traceability of chromatography: To the International System of Units (SI).		Method Details	
Instrument:	HPLC/DAD	Acetonitrile:Water 9:1	
Detection:	DAD		
Column:	ReproSil 100 C18 5 µm 250 x 3 mm		
Inj.-Vol.:	10 µl		
Flow:	1.0 ml/min		
Ret.Time:	2.03 min		
Comment			
Traceability: The balances used are calibrated with weights traceable to the national standards (DKD).			
Calibrated class A glassware is used for volumetric measurements.			
Property value was determined by gravimetric measurements and confirmed by peak area comparison.			
Attachment: Exemplary chromatogram of given method			
Certificate Revision 1 - 11.12.2018 - D. Schmid			

Certified on: 11.12.2018
Certified by: D. Schmid
RM Release

Schmid D.

The LGC Labor GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO 17034:2017 with relevant parts of DIN EN ISO/IEC 17025:2018 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions of organic pure substances.

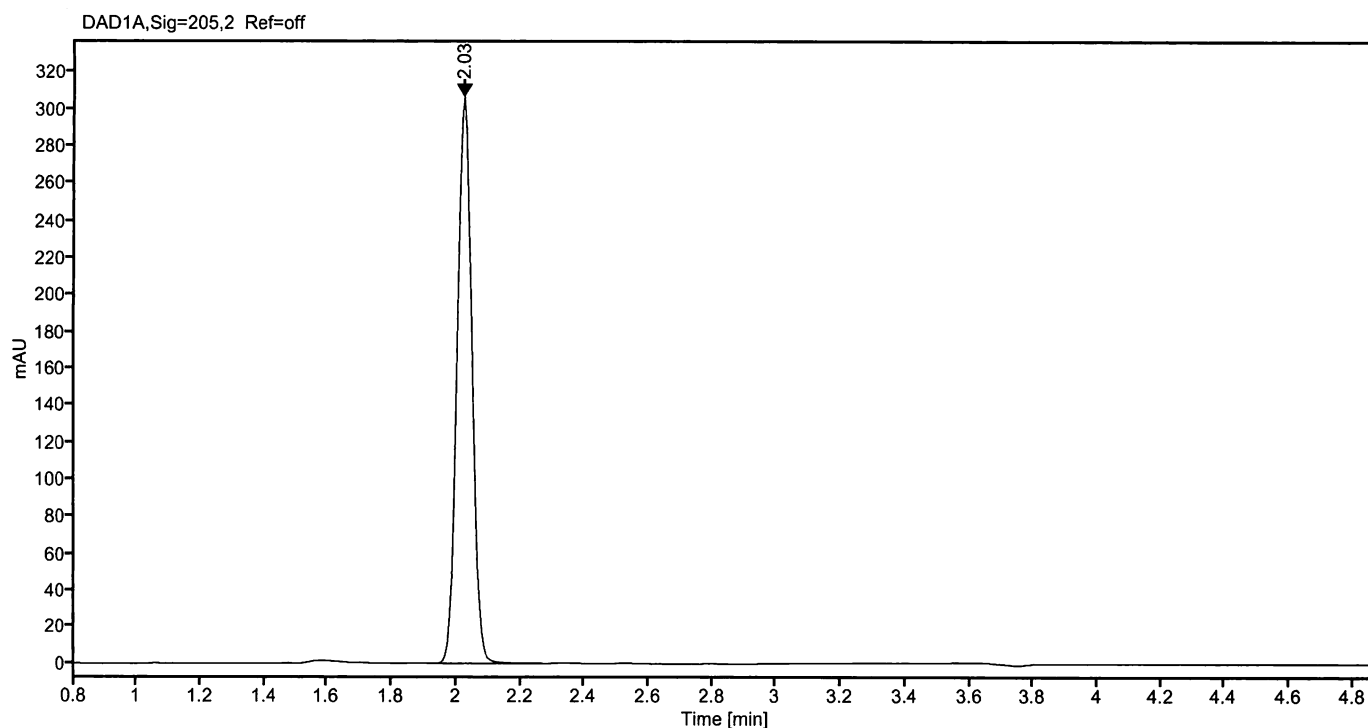
LGC Labor GmbH - Bgm.-Schlosser-Straße 6A - 86199 Augsburg - Germany
Phone +49 821 906080 - Fax +49 821 9060888 - augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

11.12.18 *um*

Data file: 20965000-03.dx
Sample name: H994280CY
Inj. volume [µl]: 10.0
Acq. method: S1_91K.amx

Instrument: DAD5
Sequence Name: 07122018-2
Injection date: 12/7/2018 10:32:31 PM
Location: D2B-A7

Sample Description 2-Nitrofluorene



Signal: DAD1A,Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	2.03	987.87519	306.93	100.00
Sum		987.88		

Schmid D.