

Certificate of Analysis



ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C11846000
Article Name: Cyflumetofen
Formula: C24H24F3NO4
Mol. Weight: 447.45
CAS No.: 400882-07-7

Lot Number: G855584
Expiry Date: 04.06.2022
Storage Temperature: 4°C ± 4°C

Storage and handling: The RM 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

Purity:

97.56% (g/g)

Expanded Uncertainty U=

0.52% (g/g)

The uncertainty of this standard is calculated in accordance with the ISO Guide 34 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is $U(\text{exp}) = u(\text{RM}) \times k$, where k is the coverage factor at the 95% confidence level ($k=2$). Uncertainty $u(\text{RM})$ is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(\text{RM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{Its})^2 + u(\text{sts})^2}$; $u(\text{char})$ 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.

Minimum sample: 1 mg 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.

Intended use: Use this RM as calibrant for chromatography or any other analytical technique.

Analytical Data

Traceability of chromatography: To the International System of Units (SI).

Instrument:	HPLC/DAD	Method Details
Detection:	DAD	Acetonitrile:Water 9:1
Column:	ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.:	10 µl	
Flow:	1.0 ml/min	
Ret.Time:	2.83 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.

Water Content: 0.14% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.15\%$ (g/g)).

Identity: EA, NMR, RT, IR, UV, MS

Certificate Revision 1 - 04.06.2018 - N. Müller

Certified on: 04.06.2018
Certified by: N. Müller
RM Release

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 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 of organic pure substances.

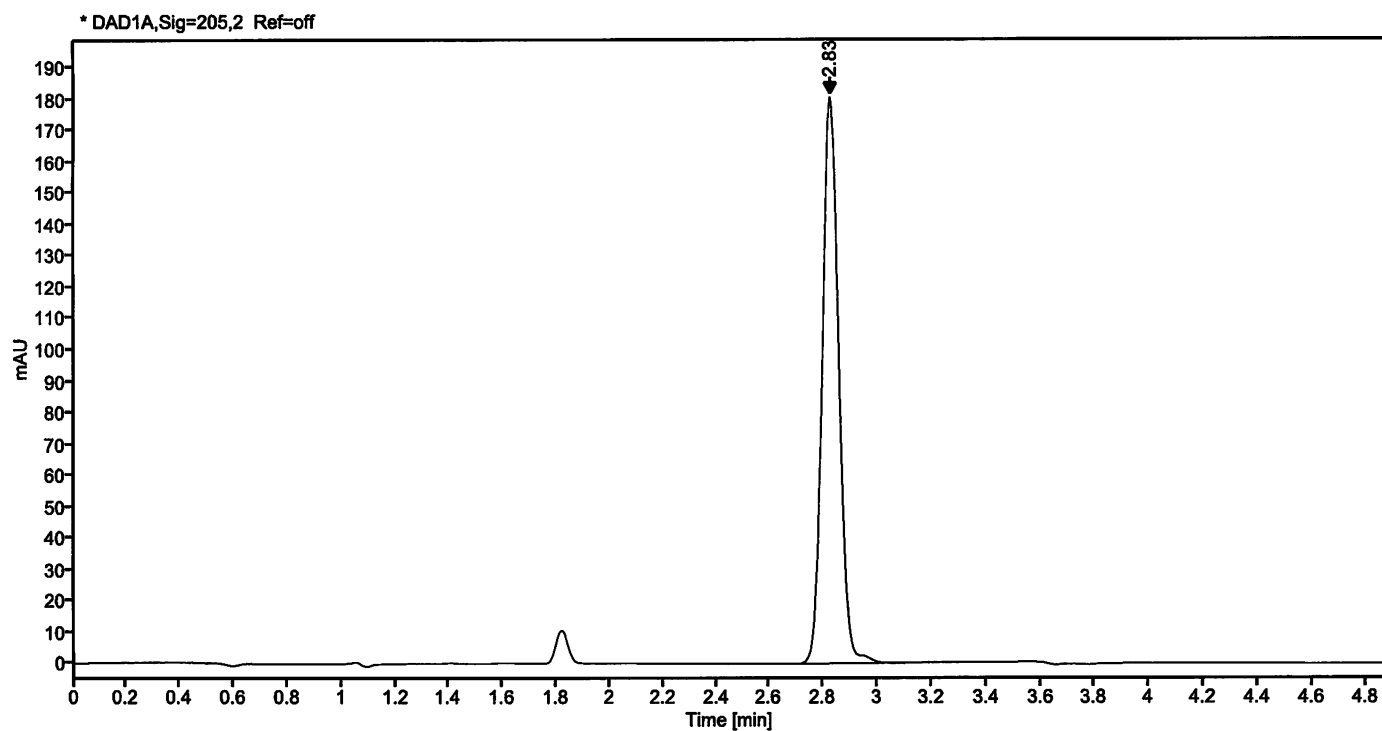
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The warranty for this product is limited to the purchasing price of this product.

01.06.18
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Data file: 11846000-02.dx
Sample name: 80601AL G855584
Inj. volume [µl]: 10.0
Acq. method: S1_91K.amx

Instrument: DAD5
Sequence Name: 01062018-instabil
Injection date: 6/1/2018 8:11:32 AM
Location: P4-A1

Sample Description Cyflumetofen



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

Nr.	RT [min]	Area	Height	Area%
1	2.83	766.08729	181.04	100.00
	Sum	766.09		

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