

Certificate of Analysis

ISO 17034 Reference Material

**EHRENSTORFER™**

Product Identification

Article Code: DRE-C13670000**Article Name:** Fluazifop-butyl**Formula:** C₁₉H₂₀F₃NO₄**Mol. Weight:** 383.36**CAS No.:** 69806-50-4**Lot Number:**

G984422

Expiry Date:

10.10.2024

Storage Temperature:

20°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: 97.04% (g/g)**Expanded Uncertainty U=** 1.95% (g/g)

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 $U(\text{exp}) = u(\text{RM}) \times k$, 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**Detection:** DAD**Column:** ReproSil 100 C18 5 µm 250 x 3 mm**Inj.-Vol.:** 10 µl**Flow:** 1.0 ml/min**Ret.Time:** 2.24 min**Method Details**Acetonitrile:Water+0.5% H₃PO₄ 9:1

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: <0.10% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.03\%$ (g/g)).

Purity was determined by chromatographic assay, corrected by water content and/or residue solvents.

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

Attachment: Exemplary chromatogram of given method

Certificate Revision 1 - 10.10.2018 - D.Schmid

Certified on: 10.10.2018**Certified by:** D.Schmid

RM Release

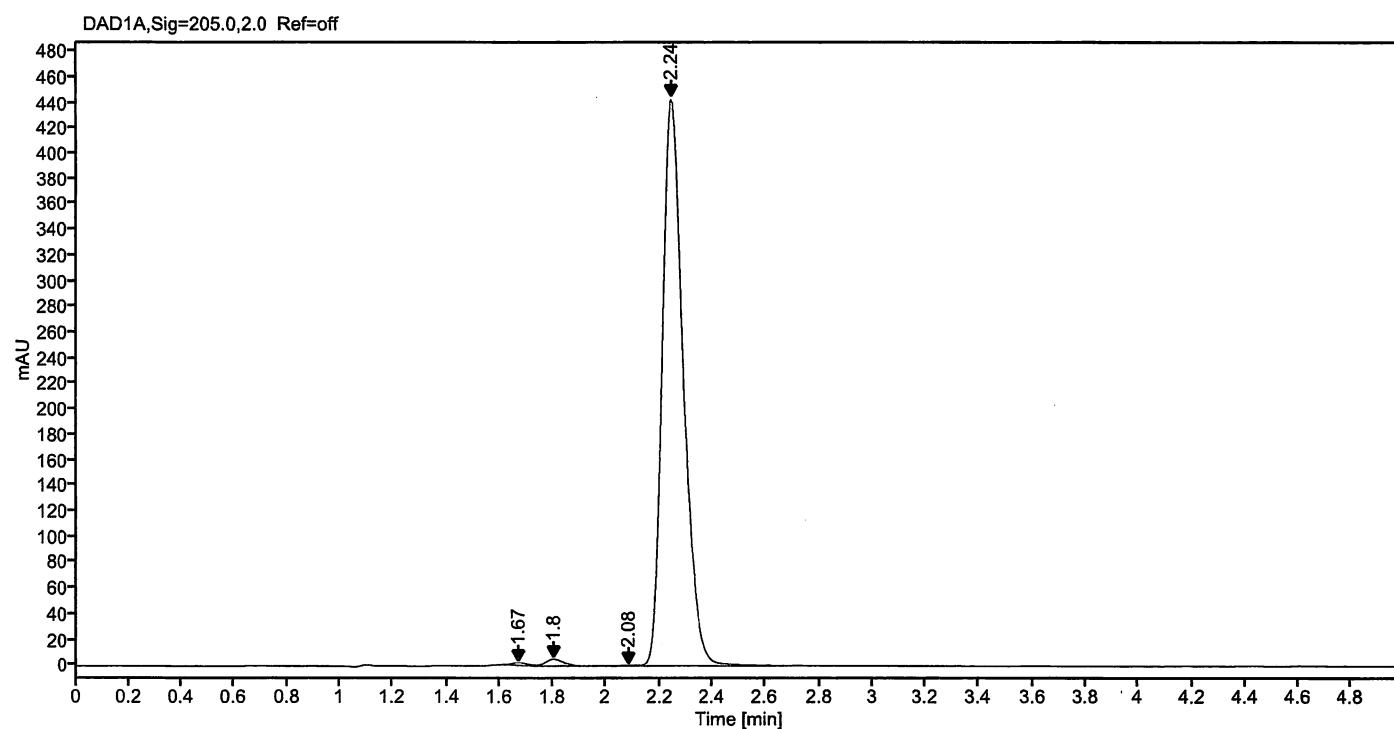
The LGC Labor GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO 17034:2017 with relevant parts of DIN EN ISO/IEC 17025:2018 for production of certified reference materials in form of organic pure substances and in form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

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

Data file: 13670000-05.dx
Sample name: 80928AL G984422
Inj. volume [µl]: 10.0
Acq. method: 91PK.amx

Instrument: DAD3
Sequence Name: 01102018-2a
Injection date: 10/1/2018 5:53:38 PM
Location: 80

Sample Description Fluazifop-butyl



Signal: DAD1A, Sig=205.0, 2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	1.67	8.84133	1.89	0.36
2	1.80	27.12140	5.58	1.10
3	2.08	2.67801	0.60	0.11
4	2.24	2435.38203	444.18	98.44
Sum		2474.02		

Schmid D.