

# Certificate of Analysis

**EHRENSTORFER™**

## Product Identification

13687000 Flucetosulfuron

Expiry Date 26.10.2022

CA Acetic acid, 2-methoxy-, 1-[3-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-2-

Lot Number 984956

IUPAC 1-[3-[(4,6-dimethoxypyrimidin-2-ylcarbonyl)sulfamoyl]-2-pyridyl]-2-fluoropropyl

Store at 20 °C ±4 °C

Formula C<sub>18</sub>H<sub>22</sub>FN<sub>5</sub>O<sub>8</sub>S

Mol.Weight 487.5

CAS No. 412928-75-7

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

## Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg) &gt;5000

## Physical Data

Phase crystalline solid

Vapour pressure &lt;math&gt; &lt; 1.86 \times 10^{-2} \text{ mPa}&lt;/math&gt; at 25 °C

Color colourless

Solubility in water 0.114 g/l at 25 °C

Melt.Range dec172,2 °C

Boiling Range (lit.)

## Analytical Data

Detection: UHPLC/DAD

Method Details:

Column: LUNA Omega C18 1.6 µm 100 x 2.1 mm

Eluent A: WA + 0.5% H<sub>3</sub>PO<sub>4</sub>

Inj.-Vol.: 2.00 µl

Eluent B: Acetonitrile

Flow: 0.5 ml/min

Ret.-Time: 5.44 min.

Time/min	A	B
0	90%	10%
0.3	90%	10%
8	0%	100%
9.5	0%	100%
10	90%	10%

Identity: IR, MS, UV, EA, NMR

Comment Purity was determined by elemental analysis.

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 99.2 % Tolerance/Uncertainty +/- 1.0 %

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 26.11.2018

by M. Beck

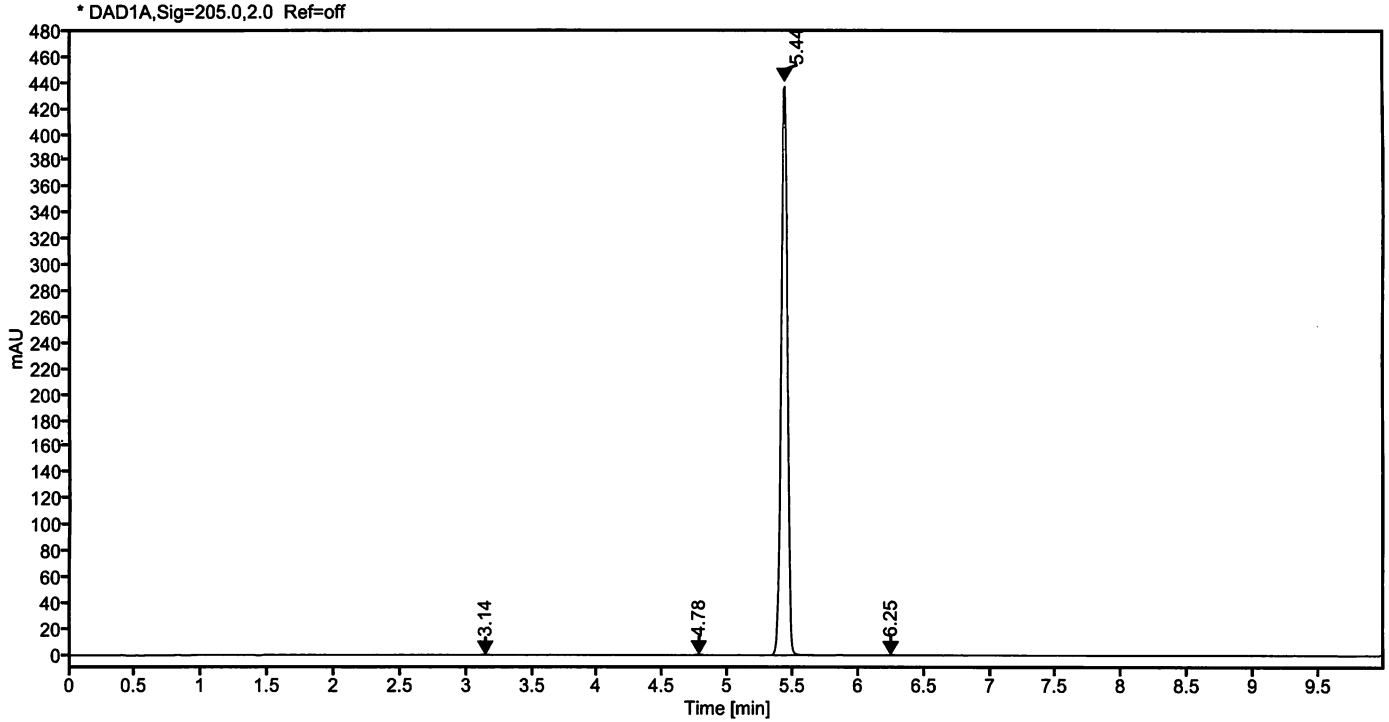
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

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

20181023

Data file: 13687000-03-r001.dx Instrument: UHPLC 2  
Sample name: 81023AL 984956 Sequence Name: 23102018-inst  
Inj. volume [µl]: 2.0 Injection date: 10/23/2018 2:18:09 PM  
Acq. method: Gradient\_10-100\_P.amx Location: P3-A1

Sample Description Flucetosulfuron



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

Nr.	RT [min]	Area	Height	Area%
1	3.14	1.08519	0.29	0.07
2	4.78	2.04840	0.65	0.14
3	5.44	1445.15157	441.12	99.72
4	6.25	0.97851	0.29	0.07
	Sum	1449.26		

*Handwritten signature*