

684995**Lot: 823512****Myclobutanil**1. General Information

Formula	C ₁₅ H ₁₇ CIN ₄	Expiry Date	01 Feb 2029
Mol. Weight	288.78 g/mol	Store at	20°C (in the dark)
CAS-No.	88671-89-0	Format	Neat

2. Batch Analysis

Identity	confirmed by NMR, LC-MS		
Purity (qNMR)	98.53 % (g/g)	Expanded Uncertainty	2.04 % (g/g)
Water (Karl-Fischer)	<0.1 % (g/g)		

Certified on 26 Jan 2024

by Jacqueline Seidel
RM Release

The certified values and uncertainties are determined in accordance with ISO 17034 with an 95% confidence level ($k=2$). Uncertainty is based on the total combined uncertainty, including uncertainties of characterisation, homogeneity and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions of the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use. The indicated long-term storage temperature can vary in a range of ± 4 °C.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The certified value "Purity" is determined by quantitative NMR. Quantification by qNMR is traceable to primary NIST Standard. The certified value "Identity" is traceable via cas number to the mol. The balances used are calibrated with weights traceable to the national standards. This makes the values traceable to the SI.

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of certified reference materials.

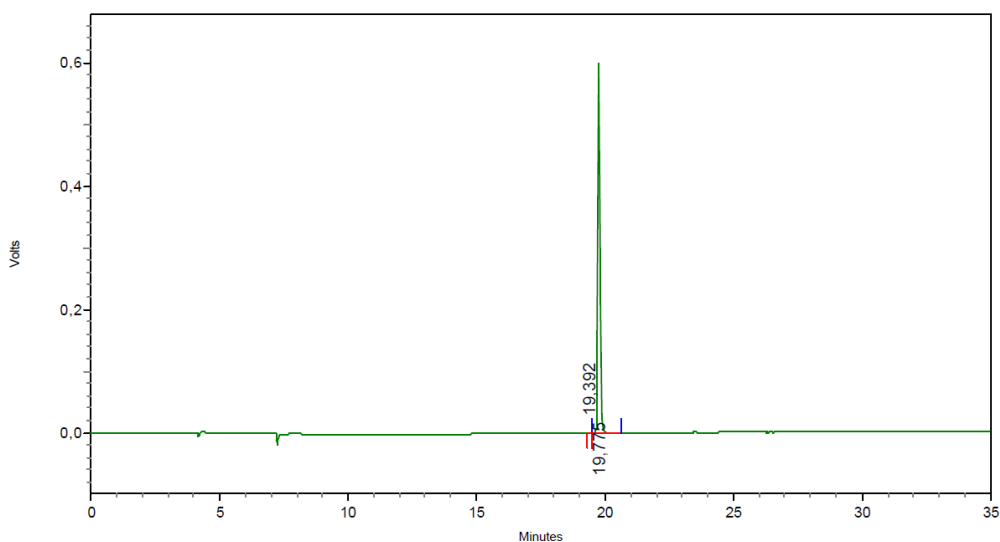


HPLC-Method

Article 684995
 Lot-No. 823512
 Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm
 Eluent A Acetonitrile
 Eluent B 0.1 % Phosphoric acid (Water)
 Gradient

time	% A	%B
0min	0	100
22.5min	90	10
25min	90	10

Flow 1.0 ml min⁻¹
 Detector UV-220nm
 Injection-Volume 5µl
 Sample 0.3 mg ml⁻¹ (Acetonitrile)



Detector A - 1 (220nm)

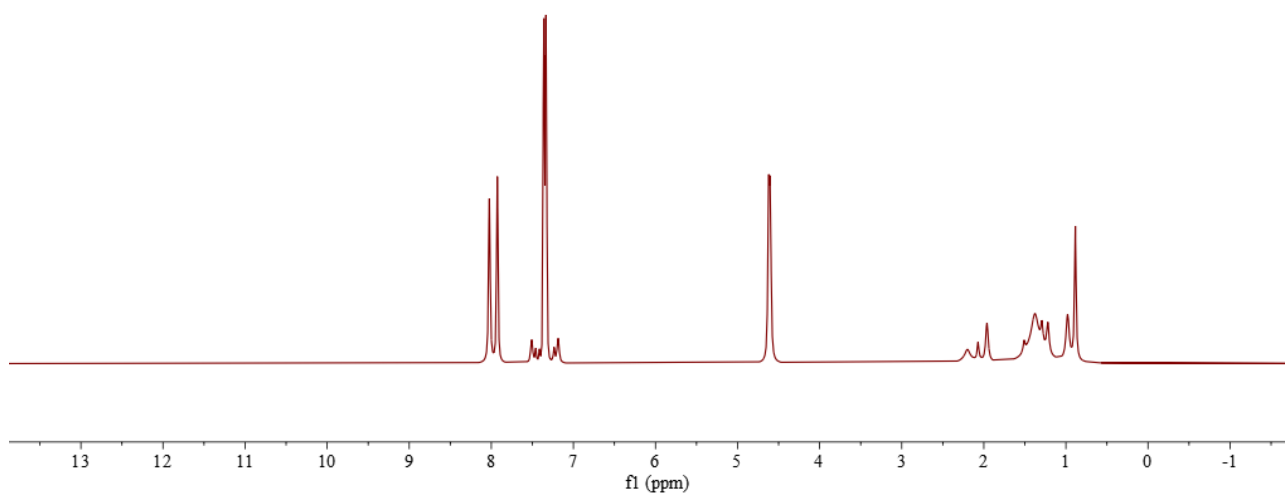
Retention Time	Height	Area	Area Percent
19,392	167	879	0,02
19,775	600625	3551773	99,98

Totals	600792	3552652	100,00
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Exemplary chromatogram of given method.

¹H-NMR-Spectrum (60 MHz; in CDCl₃)

Article 684995
Lot-No. 823512



Exemplary spectrum of given method.

For additional information please see the Attachment to the CoA that can be downloaded at www.hpc-standards.com

Version	Article	Lot	Reason for Change	Date
1	684995	823512	Initial Version	26 Jan 2024
2	684995	823512	Update Traceability	21 Nov 2025