

**684994****Lot: 790086****Myclobutanil**1. General Information

Formula	C <sub>15</sub> H <sub>17</sub> CIN <sub>4</sub>	Expiry Date	01 Jul 2022
<b>Mol. Weight</b>	<b>288.78 g/mol</b>	Store at	4°C (in the dark)
CAS-No.	88671-89-0		

2. Batch Analysis

Identity	confirmed by NMR, LC-MS		
<b>Overall Purity</b>	<b>99.99 % (g/g)</b>	<b>Expanded Uncertainty</b>	<b>1.64 % (g/g)</b>
Assay Purity (GC)	99.99 % (g/g)	Uncertainty	0.18 % (g/g)
Water (Karl-Fischer)	<0.01 % (g/g)		

Certified on 03 Mar 2020

by Corinna Gröst  
RM ReleaseThe overall purity is calculated by:  $\text{Purity}(\%) = \text{Assay purity} \cdot (100 - \text{water content} - \text{impurities}) / 100$ 

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement – third edition and calculated  $U = k \cdot uc$  using a coverage factor of  $k = 2$ , which gives a level of confidence of about 95%. The combined uncertainty uc is calculated by the combination of the uncertainty factors u(homogeneity) and u(assay characterization) as well as u(short-term stability) and u(long-term stability). Short-Term stability measurements have been conducted and proven stable for the shipping conditions. The uncertainty factor u(long-term stability) is determined from long-term stability monitoring data of at least one year of this product or structural similar products. Stability monitoring was completed or is still ongoing over the given life time at least. The expiry date is based on the current knowledge and holds only for proper storage conditions in 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.

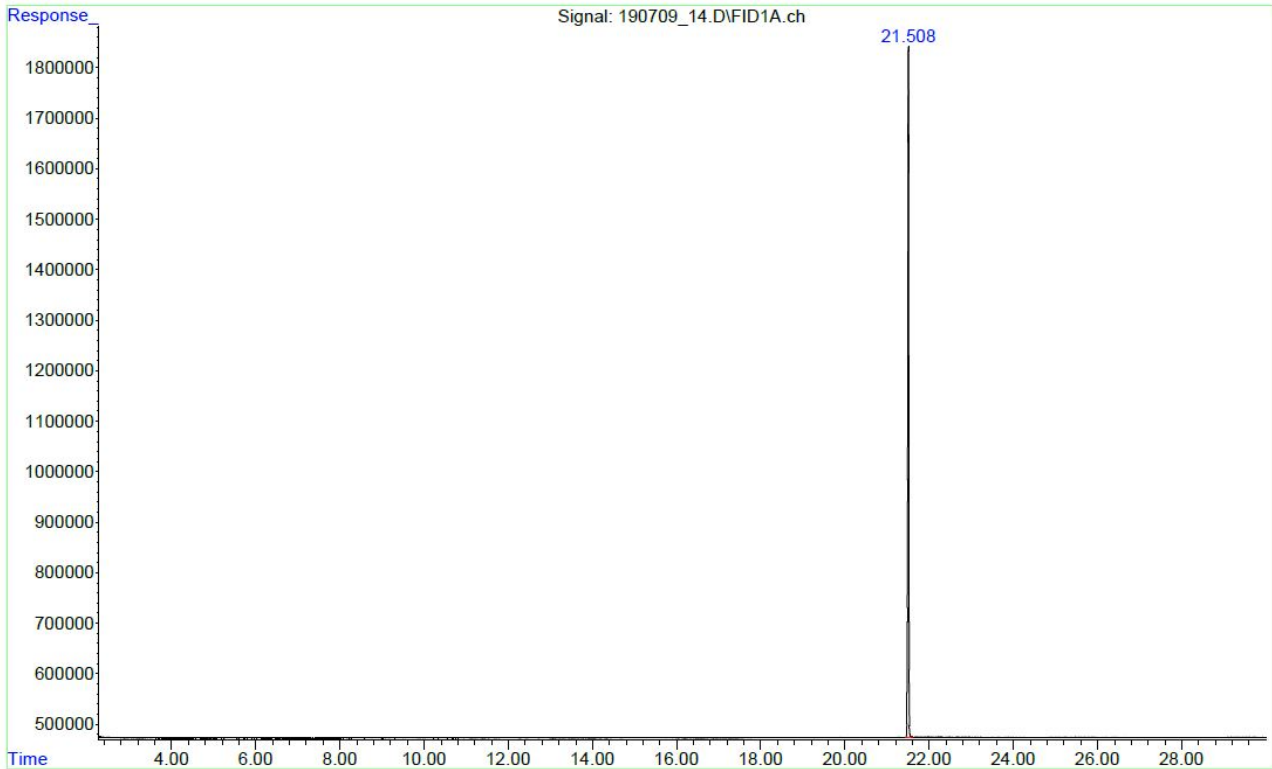
Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty. The material 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 balances used are calibrated with weights traceable to the national standards (DKD).

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 reference materials in form of organic pure substances and their solutions (for further specification see the annex of the accreditation certificate).

**GC-Method**

Article	684994	Inj.-temp.	250°C
Lot-No.	790086	Oven-temp.	50-250°C
Column	HP5, 30 m, 0.32 mm	Split	1:10
Flow	2.0 ml/min	Inj.-Volume	1 µl
Detector	FID	Sample	0.3 mg ml-1 (DCM)



peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	21.508	21.337	21.640	BB	1367865	23084173	100.00%	100.000%
Sum of corrected areas:						23084173		

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
2.2	684994	790086	Data update	13 Oct 2020