

676826 **Lot: 829264**
Mebendazole-amine1. General Information

Formula	C ₁₄ H ₁₁ N ₃ O	Expiry Date	01 Dec 2027
Mol. Weight	237.26 g/mol	Store at	4°C (in the dark)
CAS-No.	52329-60-9		

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	97.49 % (g/g)	Expanded Uncertainty	0.36 % (g/g)
Assay Purity (HPLC)	97.49 % (g/g)	Uncertainty	0.18 % (g/g)

Certified on 12 Dec 2024

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

The reported uncertainties are determined in accordance with ISO 17034 with a 95% confidence level ($k=2$). The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. 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. 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. 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.

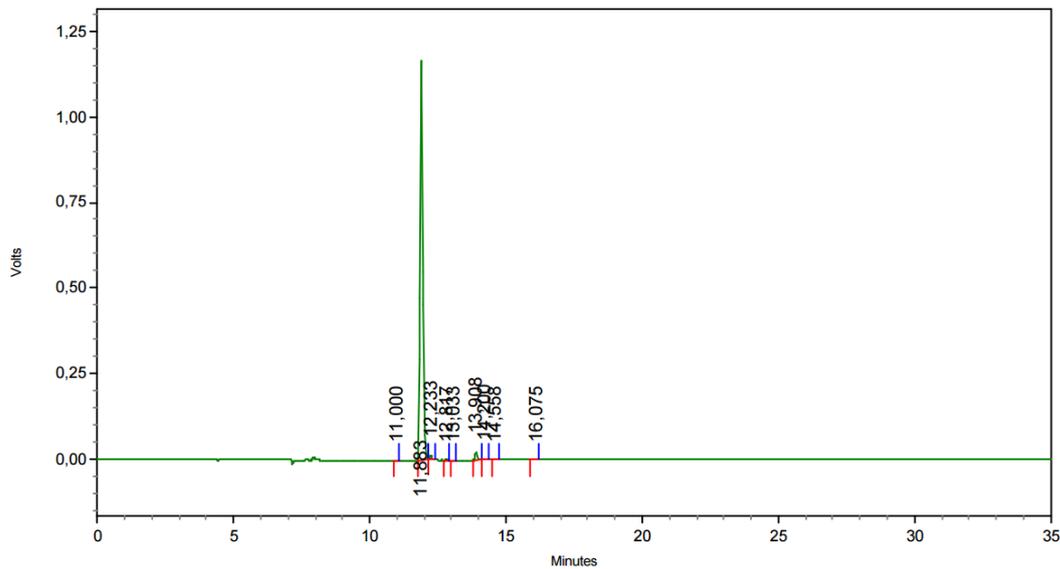
The balances used are calibrated with weights traceable to the national standards (DKD).

HPC Standards GmbH produces reference materials according to ISO 17034. For further information, check:



HPLC-Method

Article 676826
 Lot-No. 829264
 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/ Water 90/10)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
11,000	213	1247	0,02
11,883	1166468	7488863	97,53
12,233	9943	42118	0,55
12,817	390	2051	0,03
13,033	165	798	0,01
13,908	22153	119498	1,56
14,200	2228	11974	0,16
14,558	946	5373	0,07
16,075	935	6832	0,09

Totals	1203441	7678754	100,00
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Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	676826	829264	Initial Version	12 Dec 2024