

673524**Lot: 808293****Deltamethrin**

Concentration	100 µg/ml	Expanded Uncertainty	3.0 µg/ml
Solvent	Ethyl acetate	Expiry Date	01 Feb 2024
Formula	C ₂₂ H ₁₉ Br ₂ NO ₃	Store at	4°C (in the dark)
Mol. Weight	505.20 g/mol		
CAS-No.	52918-63-5		

Certified on 08 Feb 2022

by Corinna Groest
RM Release

For the calculation of the concentration, the purity of the compound has already been considered.

Instructions for 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. Please mix the solution before usage. If particles or precipitation are detected, sonify until solved. The material is homogenous. There is no minimum sample specified. The material in the vial can be used multiple times, but it is strongly recommended, that all external negative influences for the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen) and that the weight of the bottle between all uses are noted to remain constant to exclude concentration deviations. 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 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 preparation, 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.

Traceability:

Analyte calculated from	Deltamethrin
Lot	805484 neat product used for the preparation of the solution
Purity (neat)	99.75 % (g/g)

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

The HPC Standards Inc., accredited by ANAB as indicated by the accreditation number AR-2998, has shown competence based on ISO 17034:2016 for production of certified reference materials.

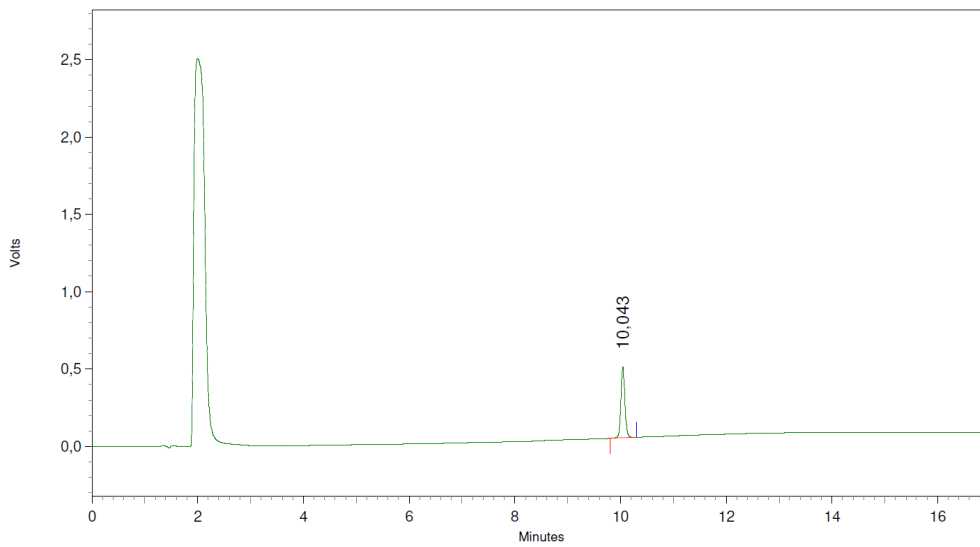
Version 1

HPLC-Method

Article 673524
 Lot-No. 808293
 Column L=100mm, ID=4.6mm; Kinetex C18, 2.6µm
 Eluent A 0.1% TFA (Acetonitrile)
 Eluent B 0.1% TFA (Water)
 Gradient

time	%A	%B
0 min	50	50
10 min	95	5
15 min	95	5

Flow 0.7 ml min⁻¹
 Detector UV-220nm



Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	673524	808293	Initial Version	08 Feb 2022