

674937 **Lot: 821978**
Monensin sodium salt1. General Information

Formula	C ₃₆ H ₆₁ NaO ₁₁	Expiry Date	01 Nov 2027
Mol. Weight	692.85 g/mol	Store at	4°C (in the dark)
CAS-No.	22373-78-0	Format	Neat

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	96.90 % (g/g)	Expanded Uncertainty	1.48 % (g/g)
Assay Purity (HPLC)	96.90 % (g/g)	Uncertainty	0.74 % (g/g)
Water	<0.1 % (g/g)		

Certified on 07 Nov 2023

by Jacqueline Seidel
RM Release

The overall purity is calculated by: $\text{Purity}(\%) = \frac{\text{Assay purity} \cdot (100 - \text{water content} - \text{impurities})}{100}$
For non-specified hydrates, the overall purity refers to the stated molecular formula.

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 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 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:

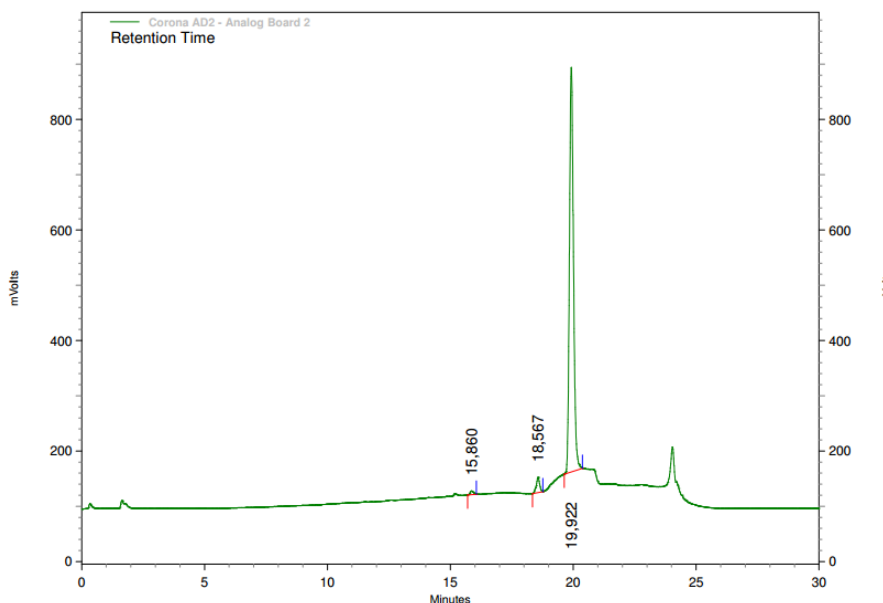


HPLC-Method

Article 674937
 Lot-No. 821978
 Column Kinetex C18 ; 100 x 4,6mm ; 100 A; 2,6µm
 Eluent A Acetonitrile + 0,1% Formic acid
 Eluent B Water + 0,1% Formic acid
 Gradient

time	%A	%B
0min	0	100
15min	95	5
20min	95	5

Flow 0.7 ml min⁻¹
 Detector CAD
 Injection-Volume 2µl
 Sample 1.0 mg ml⁻¹ (Acetonitrile)



Retention Time	Height	Area	Area Percent
15,860	6659	62174	0,711
18,567	27968	267880	3,065
19,922	732026	8410285	96,224
Totals	766653	8740339	100,000

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	674937	821978	Initial Version	07 Nov 2023
2	674937	821978	Water added	15 Mar 2024
3	674937	821978	Update Formula and Mol. Weight	15 Aug 2025