

679441
D8-DNC

Lot: 840166

1. General Information

Formula	C13H2D8N4O5	Expiry Date	01 May 2028
Mol. Weight	310.29 g/mol	Store at	4°C (in the dark)
CAS-No.	1156508-87-0	Format	Neat

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	99.77 % (g/g)	Expanded Uncertainty	1.11 % (g/g)
Assay Purity (HPLC)	99.97 % (g/g)	Uncertainty	0.17 % (g/g)
Atom%	99.1 D		
Residual Solvents	0.20 % (g/g)	Uncertainty	0.10 % (g/g)

Certified on 20 Apr 2026

by Corinna Gröst
RM Release

The overall purity is calculated by: $Purity(\%) = \frac{Assay\ purity \cdot (100 - water\ content - impurities)}{100}$

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 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.

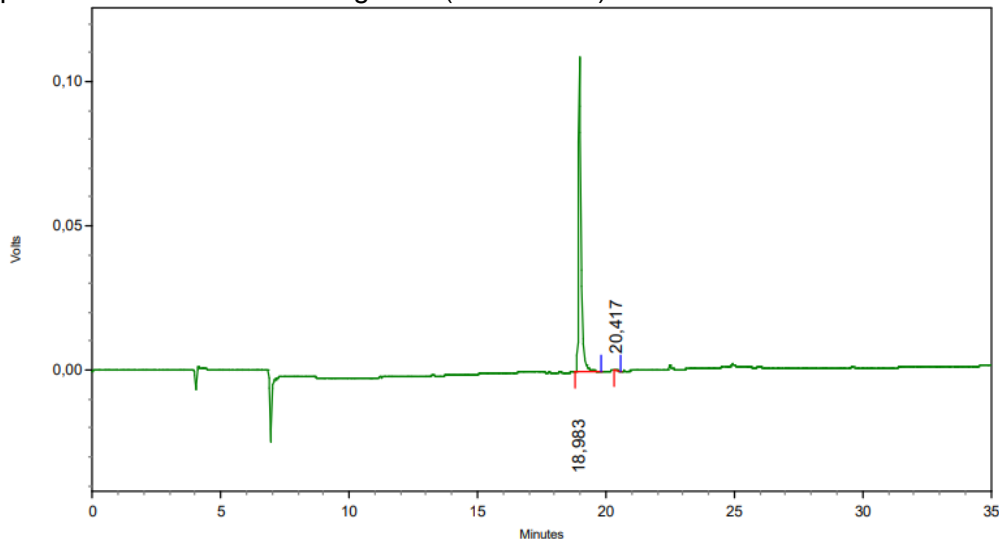
The balances used are calibrated with weights traceable to the national standards which makes them traceable to the International System of Units (SI).

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



HPLC-Method

Article 679441
 Lot-No. 840166
 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 0.1 mg ml⁻¹ (Acetonitrile)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
18,983	109228	822454	99,97
20,417	53	269	0,03

Totals	Height	Area	Area Percent
	109281	822723	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	679441	840166	Initial Version	20 Apr 2026