

675455 **Lot: 812953**
Sulfabenzamide1. General Information

Formula	C ₁₃ H ₁₂ N ₂ O ₃ S	Expiry Date	01 Oct 2027
Mol. Weight	276.31 g/mol	Store at	4°C (in the dark)
CAS-No.	127-71-9		

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	99.94 % (g/g)	Expanded Uncertainty	0.36 % (g/g)
Assay Purity (HPLC)	99.94 % (g/g)	Uncertainty	0.18 % (g/g)
Water	<0.01 % (g/g)		

Certified on 16 Sep 2022



by Corinna Gröst

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

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. 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.

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).

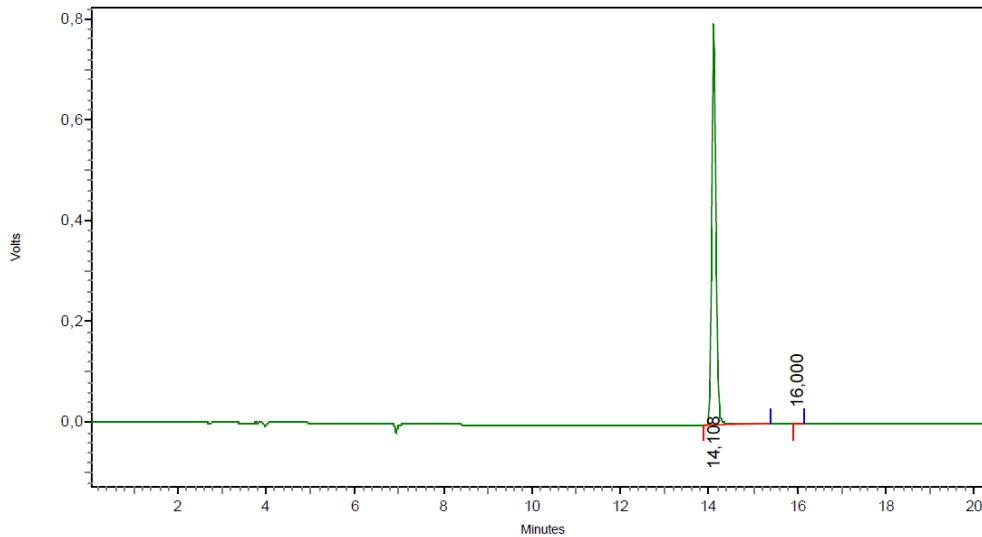
The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of certified reference materials.

HPLC-Method

Article 675455
 Lot-No. 812953
 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 5 µl
 Sample 0.3 mg ml⁻¹ (Acetonitrile)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
14,108	793475	4743855	99,95
16,000	358	2585	0,05

Totals	Height	Area	Area Percent
	793833	4746440	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	675455	812953	Initial Version	16 Sep 2022