

# Certificate of Analysis

## Reference Material & Standard

|                    |                                                               |                   |                                                                                     |
|--------------------|---------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|
| Product Name:      | 4-Nitrobenzenesulfonamide                                     | Catalogue Number: | CCHM701786                                                                          |
| Synonyms:          | N/A                                                           | Lot Number:       | 0901-RG-0091                                                                        |
| CAS Number:        | 6325-93-5                                                     | Expiry Date:      | Sep 02, 2029                                                                        |
| Molecular Formula: | C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub> S | Storage:          | Room Temp Protected from light and Sealed                                           |
| Molecular Weight:  | 202.19                                                        | Warning:          |  |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 100.000%    |
| Loss On Drying | TGA               | 0.0670%     |
| Assay          |                   | 99.9%       |
| Uncertainty    |                   | ±0.2%       |

## Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) \* Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

## Signature:

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Approved by General Manager:

*David*

Date: Sep 03, 2025

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Date: Sep 03, 2025

