

## Certificate of Analysis

Product Name:

**2-Pyrrolidinone PurCert Secondary Reference Standard**  
**[Includes all characterization data] [Traceable to EP CRS]**

Product No.: PSR37818  
Lot No.: Sample COA  
Brand: PureSynth  
CAS No.: 616-45-5  
Molecular Formula: C<sub>4</sub>H<sub>7</sub>NO  
Molecular Weight: 85.11 g/mol  
Date of Mfg.: NA  
Date of Exp.: NA

| Test                                 | Specification                 | Result                  |
|--------------------------------------|-------------------------------|-------------------------|
| Appearance                           | Colorless Liquid              | Colorless Liquid        |
| Assay (By GC-FID)                    | ≥ 99.5 %                      | 99.99 %                 |
| Water (By KF)                        | NMT 0.2 %                     | 0.012 %                 |
| Potency                              | -                             | 99.97 %                 |
| Density                              | 1.110-1.130 g/cm <sup>3</sup> | 1.120 g/cm <sup>3</sup> |
| Identification by <sup>1</sup> H NMR | Conforms to structure         | Conforms                |
| Identification by GC-MS              | Conforms to molecular mass    | Conforms                |
| Identification by IR                 | Conforms to structure         | Conforms                |

**\*Traceable to EP Reference Standard Y0000659, Lot no: 2.**

### Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at [www.pure-synth.com](http://www.pure-synth.com)

Inspect on receipt

### Storage Condition:

Store at temperature of 2-8°C and keep the container tightly closed

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.

For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)