

# Specification

Technical Data Sheet

**CAS****56-85-9****STORAGE****Ambient****MOLECULAR WEIGHT****146.14****PRODUCT****L-Glutamine - tested to USP specifications**

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| <b>Product number</b>    | 90037159                                                                                |
| <b>CAS number</b>        | 56-85-9                                                                                 |
| <b>Molecular formula</b> | H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub> CH(NH <sub>2</sub> )CO <sub>2</sub> H |
| <b>Molecular weight</b>  | 146.14 g/mol                                                                            |

**PARAMETER****SPECIFICATION**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| <b>Appearance</b>                     | White crystals or crystalline powder |
| <b>Assay</b>                          | 99.5 to 101.5%                       |
| <b>Grade</b>                          | conforms to USP Specification        |
| <b>Loss on Drying</b>                 | ≤ 0.3%                               |
| <b>Specific rotation</b>              | +6.3 to +7.3°C                       |
| <b>Chloride (Cl-)</b>                 | ≤ 0.05%                              |
| <b>Heavy Metals (Pb)</b>              | ≤ 15ppm                              |
| <b>Iron (Fe)</b>                      | ≤ 30ppm                              |
| <b>Residue on Ignition</b>            | ≤ 0.3%                               |
| <b>Solubility in water</b>            | Forms a clear, colourless solution   |
| <b>Infrared Spectrum</b>              | Conforms to structure                |
| <b>Sulphates (SO<sub>4</sub>)(2-)</b> | ≤ 0.03%                              |

**SPECIFICATION  
STATEMENT**

The values stated above represent the standard specification for this product, issued under **Molekula Ltd**'s quality management system. Batch-specific results are provided on the Certificate of Analysis.

**STORAGE**

Store as indicated on the product label, away from light, moisture and incompatible materials.

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**Molekula Ltd** would like to thank you for your support of our products and service.

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