

# Specification

Technical Data Sheet

|                              |                                  |                                          |
|------------------------------|----------------------------------|------------------------------------------|
| <b>CAS</b><br><b>61-90-5</b> | <b>STORAGE</b><br><b>Ambient</b> | <b>MOLECULAR WEIGHT</b><br><b>131.17</b> |
|------------------------------|----------------------------------|------------------------------------------|

**PRODUCT****L-Leucine - Ph. Eur**

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>Product number</b>    | 90035135                                       |
| <b>CAS number</b>        | 61-90-5                                        |
| <b>Molecular formula</b> | C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> |
| <b>Molecular weight</b>  | 131.17 g/mol                                   |

| PARAMETER                                                   | SPECIFICATION             |
|-------------------------------------------------------------|---------------------------|
| <b>Appearance</b>                                           | White to Off-white powder |
| <b>Assay</b>                                                | 98.5 - 101.0%             |
| <b>Grade</b>                                                | EP                        |
| <b>Loss on Drying</b>                                       | ≤ 0.5%                    |
| <b>Specific rotation</b>                                    | +14.5° to +16.5°          |
| <b>Appearance of Solution</b>                               | Clear colourless liquid   |
| <b>Chloride (Cl-)</b>                                       | ≤ 200ppm                  |
| <b>Heavy Metals (Pb)</b>                                    | ≤ 10ppm                   |
| <b>Iron (Fe)</b>                                            | ≤ 10ppm                   |
| <b>Ninhydrin positive substances - Ammonium (@570nm))</b>   | ≤ 0.02%                   |
| <b>Ninhydrin positive substances - For each impurity</b>    | ≤ 0.02%                   |
| <b>Ninhydrin positive substances - Total</b>                | ≤ 1.0%                    |
| <b>Ninhydrin positive substances - Impurity A (@570nm))</b> | ≤ 0.08%                   |
| <b>Sulphated Ash</b>                                        | ≤ 0.1%                    |

## PARAMETER

## SPECIFICATION

**Sulphates (SO<sub>4</sub>)(2-)**

≤ 300ppm

**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.

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

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