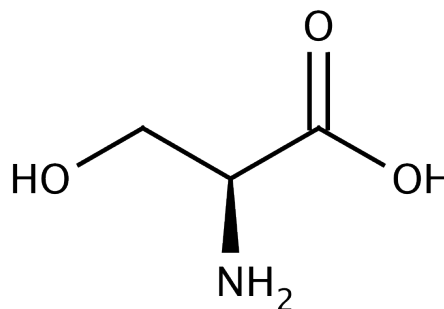


Product Specification

| | |
|---------------|--------------|
| Product Name | L-Serine |
| Glentham Code | GM1114 |
| CAS Number | 56-45-1 |
| EINECS | 200-274-3 |
| MDL Number | MFCD00064224 |
| PubChem SID | 310279962 |

| | |
|-------------------|---|
| Molecular Weight | 105.09 |
| Molecular Formula | C ₃ H ₇ NO ₃ |
| Storage Temp. | +20°C |



| Property | Specification |
|--------------------------------|---|
| Physical Description | White crystals or crystalline powder |
| Assay | 98.5 - 101.5 % (dried basis) |
| Identification | IR |
| Residue on Ignition | ≤ 0.1% |
| Chloride | ≤ 0.05% |
| Sulphate | ≤ 0.03% |
| Iron (Fe) | ≤ 30ppm |
| Heavy Metals | ≤ 15ppm |
| Organic Impurities | Any Individual Impurity: ≤ 0.5% Total impurities: ≤ 2.0% |
| Specific Optical Rotation | 14.0 - 15.6 ° |
| Loss on Drying | ≤ 0.2% |
| Pharmacopoeia Specification(s) | USP |

| | | |
|-----------------------|---|------------|
| Specification Version | - | v1.0 |
| Date Created | - | 2014-05-16 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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