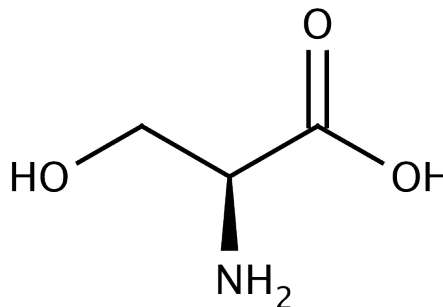


## Product Specification

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<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>  
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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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