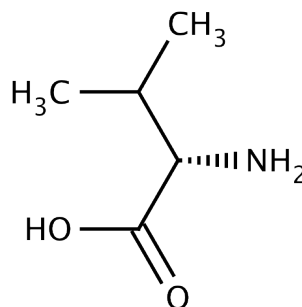


## Product Specification

Product Name	L-Valine
Glentham Code	GM6473
CAS Number	72-18-4
EINECS	200-773-6
MDL Number	MFCD00064220
PubChem SID	310281625
Molecular Weight	117.15
Molecular Formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>
Storage Temp.	+20°C



Property	Specification
Physical Description	White crystals or crystalline powder
Assay	98.5 - 101.0 %
Identification	IR
pH	5.5 - 7.0
Specific Optical Rotation	+26.6 - +28.8 °
Residue on Ignition	≤ 0.1%
Loss on Drying	≤ 0.5%
Chloride (Cl)	≤ 500ppm
Iron (Fe)	≤ 30ppm
Sulphate (SO <sub>4</sub> )	≤ 300ppm
Ammonium	≤ 200ppm
Heavy Metals	≤ 15ppm
Lead (Pb)	≤ 3ppm
Arsenic (As)	≤ 1ppm
Cadmium (Cd)	≤ 1ppm
Mercury (Hg)	≤ 0.1ppm
Pharmacopoeia Specification(s)	Conforms to USP

Specification Version	-	v1.0
Date Created	-	2014-05-13

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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