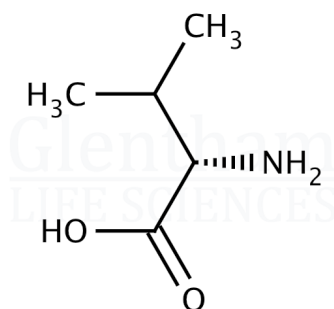


Product Specification

Product Name	L-Valine
Glentham Code	GM6473
CAS Number	72-18-4
EINECS	200-773-6
Numéro MDL	MFCD00064220
PubChem SID	310281625
Molecular Weight	117.15
Molecular Formula	$C_5H_{11}NO_2$
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 (SO4)	≤ 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 or contact us using the details above for the current version of this document.

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