

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

L-Valine - from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture,
98.5-101.0%

Product Number:**V0513****CAS Number:**

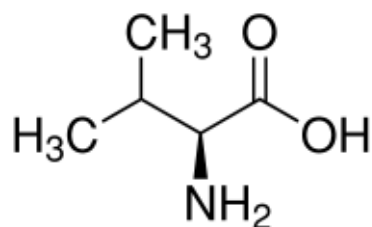
72-18-4

MDL:

MFCD00064220

Formula:C₅H₁₁NO₂**Formula Weight:**

117.15 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder
Solubility (Color)	Colorless
0.5 g TO 20 mL, H ₂ O	
Solubility (Turbidity)	Clear
Identity by IR	Conforms to Structure
pH	5.5 - 7.0
5% in H ₂ O (USP)	
Endotoxin Level	≤ 1 EU/mg
Cell Culture Test	Pass
Origin	Non-Animal Source
Must Be Non-Animal Source	
Specific Rotation	27.6 - 28.7 °
C = 8 in 6 M HCl at (20 Deg C/ EP, JP)	
Specific Rotation	26.6 - 28.8 °
C = 8 in 6 M HCl at (25 Deg C/USP)	
Ammonium	≤ 0.02 %
Sulfate	Pass
< or = 0.020%	
Iron (Fe)	Pass
< or = 10ppm	
Heavy Metals	Pass
< or = 10ppm	
Arsenic (As)	Pass
< or = 1ppm	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

L-Valine - from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5-101.0%

Product Number:

V0513

CAS Number:

72-18-4

MDL:

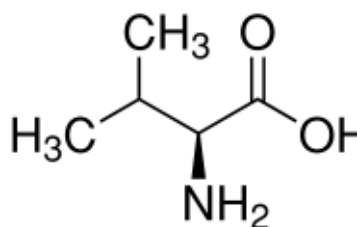
MFCD00064220

Formula:

C₅H₁₁NO₂

Formula Weight:

117.15 g/mol



TEST	Specification
Loss on Drying	≤ 0.20 %
Residue on ignition (Ash)	≤ 0.10 %
Residual Solvents	Meets Requirements
Ninhydrin-Positive Substances	Conforms
Assay (Dry Basis)	98.5 - 101.0 %
Note	-----
Meets USP, EP, and JP testing specifications	
Recommended Retest Period	-----
4 years	
Chloride Content	Pass
< or = 0.020%	
pH	5.5 - 6.5
0.5 g in 20 mL, H ₂ O (JP)	

Specification: PRD.1.ZQ5.10000007092

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.