

Product Specification

Product Name
Compendia
USP/EP/JP
CAS # 72-18-4
Formula
Molecular Weight
L-Valine
USP/EP/JP
72-18-4
117.15

Description White crystals or crystalline powder; tastes at

first slightly sweet and then bitter.

Solubility Freely soluble in formic acid, soluble in water,

practically insoluble in ethanol (95). Dissolves

in dilute hydrochloric acid.

Identification Compare the infrared absorption spectrum

of the sample with that of the standard by

potassium bromide disc method.

H₂N OH

Test

Specification

Specific Rotation @ 20°C +27.6 to +28.7°

State of Solution Clear and Colorless; Not less than 98.0%

Chloride (Cl)

Ammonium (NH4)

Sulfate (SO4)

Iron (Fe)

Heavy Metals (Pb)

Arsenic (As2O3)

Not more than 0.020%

Not more than 10ppm

Not more than 10ppm

Not more than 10ppm

Related Substances 1) Conforms

2) Isoleucine: Not more than 0.40%; Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 1.00%

Loss of Drying

Not more than 0.20%

Residue on ignition (Sulfated)

Not more than 0.10%

Assay 98.5 to 101.0% **pH** 5.5 to 6.5

Endotoxin Less than 6.0EU/g