

## SPECIFICATION

## L-Valine

## Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance Assay (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> ) (after drying) Solubility in water pH of a 25g/L solution at 25°C Specific rotation [ $\alpha$ ] <sub>D20</sub> (after drying) Loss on drying at 105°C Residue after ignition (as sulfate) Chloride (Cl) Sulfate (SO <sub>4</sub> ) Lead (Pb) Arsenic (As) Iron (Fe) Ammonium (NH <sub>4</sub> ) Foreign amino acids	White, crystals ~ crystalline powder min.99.0%(mass/mass) to pass test 5.0~7.0 +27.0~+28.5° max.0.2%(mass/mass) max.0.05%(mass/mass) max.0.02%(mass/mass) max.0.02%(mass/mass) max.0.001%(mass/mass) max.1ppm(mass/mass) max.0.001%(mass/mass) max.0.02%(mass/mass) to pass test

JIS K 9106 : 2020(\*:Additional test performed by Wako but not required by JIS)