

## Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.



Exp. Date: 00-00-0000

**USE CARE:** This material has been evaluated per GHS/OSHA criteria and is not classified as hazardous. All chemicals may pose unknown hazards and must be used with caution. Use personal protection and safe handling methods consistent with proper workplace safety practices. Consult SDS for additional properties and precautions. If adverse reaction occurs seek medical attention.

**KEEP FROM CHILDREN**

**WARNING:**

Cancer and Reproductive Harm-  
www.P65Warnings.ca.gov

**VA910**

**SIZ SY**

**L-Valine**

USP, JP,  
bioCERTIFIED™

CAS 72-18-4



**CAUTION:** For manufacturing, processing or repackaging. Further processing and testing required for use in parenteral applications.

**Read and understand the label and Safety Data Sheet (SDS) prior to use.**

**Chemical Emergency: (800)424-9300**

[www.SpectrumChemical.com](http://www.SpectrumChemical.com)

$C_5H_{11}NO_2$

F.W. 117.15

Not sterile.

Manufacturer/Supplier Code ..... ?  
Manufacturer Lot Number ..... ?

Assay (Dried Basis) ..... 98.5-101.5%  
pH ..... 5.5-6.5  
Specific Rotation (EP), [α]<sub>D</sub><sup>20</sup> ..... +26.5° to +29.0°  
Specific Rotation (USP), [α]<sub>D</sub><sup>20</sup> ..... +26.6° to +28.8°  
Appearance of Solution ..... Clear, colorless

**MAXIMUM LIMITS**

Loss on Drying ..... 0.20%  
Residue on Ignition ..... 0.10%  
Related Substances (JP-TLC Method) ..... Conforms  
Related Compounds (USP-TLC Method):  
Any Unspecified Impurity ..... 0.5%  
Total Impurities ..... 2.0%  
Ammonium ..... 0.02%  
Chloride (Cl) ..... 0.021%  
Sulfate (SO<sub>4</sub>) ..... 0.028%  
Iron (Fe) ..... 30 ppm  
Heavy Metals (Pb) ..... 20 ppm  
Arsenic (As<sub>2</sub>O<sub>3</sub>) ..... 2 ppm  
Elemental Impurities ..... As reported  
Bacterial Endotoxins ..... 6.0 EU/g  
Total Microorganism ..... 100 CFU/g  
Mold ..... 10 CFU/g  
Residual Solvents ..... To pass test

LIGHT SENSITIVE: Keep tightly closed in light-resistant containers.

Repackaged by Spectrum as:

G 1/K6GHS-A ? Lot No. XQ####

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