

Chem-Impex International, Inc.

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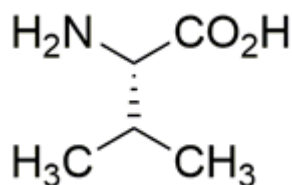
Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191



Product Specifications

| | |
|-------------------|------------------------------------------------------------------------------------|
| Catalogue Number | 36934 |
| Product | L-Valine, non animal origin (S)-2-Amino-3-methylbutyric acid L-Valine |
| CAS Number | 72-18-4 |
| Molecular Formula | C ₅ H ₁₁ NO ₂ |
| Molecular Weight | 117.1 |

| | |
|------------------------|--------------------------------------------------------------------------------------------------|
| Appearance | White crystalline powder |
| Heavy Metals | ≤ 10 ppm (as Pb) |
| Anion | Chloride (Cl) : ≤ 0.020% Sulfate (SO ₄) : ≤ 0.020% |
| Cation | Ammonium (NH ₄) : ≤ 0.02% Iron (Fe) : ≤ 10 ppm Arsenic : ≤ 1 ppm |
| pH | 5.5 - 6.5 |
| Mould and Yeast | Mold : ≤ 10 cfu/g |
| Optical Rotation | [α] ²⁰ _D = 27.6 - 28.7 ° [α] ²⁵ _D = 26.6 - 28.8 ° |
| Transmission | State of solution : ≥ 98%, Clear and colorless solution |
| Loss on Drying | ≤ 0.20% |
| E. Coli | Negative |
| Endotoxin Test | ≤ 6.0 EU/g |
| Microbial Count | ≤ 100 cfu/g |
| Related Substances | To pass test |
| Residue On Ignition | ≤ 0.10% |
| Assay | 98.5 - 101.0% |
| Grade | USP, EP, JP |
| Storage | Store at RT |
| Additional Information | Identification : To pass test |

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For Laboratory Use Only