

# Chem-Impex International, Inc.

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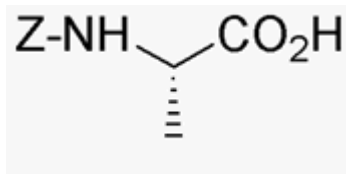
**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Product Specifications

**Catalogue Number** 02117  
**Product** **Z-L-alanine**

Z-L-Ala-OH

**CAS Number** 1142-20-7  
**Molecular Formula** C<sub>11</sub>H<sub>13</sub>NO<sub>4</sub>

**Molecular Weight** 223.2

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**Appearance** White to off-white crystalline powder  
**Solubility** Clear solution (0.3 g in 2 mL AcOH)  
**Melting Point** 80 - 90 °C  
**Elemental Analysis (Theory)** ≤ 5% (C, H, N)  
**Optical Rotation** [α]<sup>20</sup><sub>D</sub> = -12 ± 3 ° (C=1 in AcOH)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** ≤ 1.0% (40 °C, 2h)  
**<sup>1</sup>H NMR** Conforms to structure  
**Chiral HPLC** ≥ 99.5% (ee)  
**D-Enantiomer** ≤ 0.5%  
**Purity by HPLC** ≥ 99%  
**Storage** Store at 0 - 8 °C

**For Laboratory Use Only**