

# *Chem-Impex International, Inc.*

---

**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

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

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## *Product Specifications*

**Catalogue Number** 02256  
**Product** **Z-L-threonine**

Z-L-Thr-OH

**CAS Number** 19728-63-3

**Molecular Formula** C<sub>12</sub>H<sub>15</sub>NO<sub>5</sub>

**Molecular Weight** 253.3

---

**Appearance** White to off-white powder

**Melting Point** 100-105 °C

**Water Content (Karl Fisher)** ≤ 1%

**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = - 5 ± 1 ° (C=4 in AcOH)

**Infrared Spectrum** Conforms to structure

**Analysis by Mass Spectra** Conforms to structure

**Loss on Drying** ≤ 1% (50 °C, 2 hr)

**<sup>1</sup>H NMR** Conforms to structure

**D-Enantiomer** ≤ 0.5%

**Purity by HPLC** ≥ 98%

**Storage** Store at 0-8°C

**For Laboratory Use Only**