

# *Chem-Impex International, Inc.*

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**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

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## *Product Specifications*

<b>Catalogue Number</b>	00279
<b>Product</b>	<b>L-Serine</b> L-Ser-OH L-β-Hydroxyalanine
<b>CAS Number</b>	56-45-1
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	105.1
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<b>Appearance</b>	White crystals or crystalline powder
<b>Heavy Metals</b>	≤ 15 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ) : ≤ 0.05% Sulfate (SO <sub>4</sub> <sup>2-</sup> ) : ≤ 0.03%
<b>Cation</b>	Iron (Fe) : ≤ 30 ppm
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 14.0 - 15.6 ° (C=100 mg/mL in 2 N HCl)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	≤ 0.2% (105 °C, 2h)
<b>Related Substances</b>	Individual impurity : ≤ 0.5% Total impurities : ≤ 2%
<b>Residue On Ignition</b>	≤ 0.1%
<b>Assay by titration</b>	98.5 - 101.5% (dried basis)
<b>Grade</b>	Meets USP Specification
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Identification : Infrared spectrum : Conforms to structure

**For Laboratory Use Only**