

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 02248  
**Lot Number** 000424-141020-11704  
**Product** **Z-O-tert-butyl-L-serine**

Z-L-Ser(tBu)-OH

**CAS Number** 1676-75-1  
**Molecular Formula** C<sub>15</sub>H<sub>21</sub>NO<sub>5</sub>

**Molecular Weight** 295.3

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**Appearance** White powder  
**Solubility** Clear solution (0.3 g in 2 mL EtOH)  
**Melting Point** 87.7-88.1 °C  
**Water Content (Karl Fisher)** 0.15%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = +19.2° (C=2 in EtOH)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** 0.03% (45 °C, 2h)  
**<sup>1</sup>H NMR** Conforms to structure  
**Purity by HPLC** 99.70%  
**Storage** Store at 0-8 °C

**Remarks** See material safety data sheet for additional information  
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager