

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 01550  
**Product** **Boc-O-benzyl-D-serine**

**Lot Number** 000424-131101-31498  
Boc-D-Ser(Bzl)-OH

**CAS Number** 47173-80-8  
**Molecular Formula** C<sub>15</sub>H<sub>21</sub>NO<sub>5</sub>

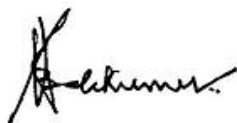
**Molecular Weight** 295.3

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**Appearance** White powder  
**Solubility** Clear solution (0.3 gram in 2 ml DMF)  
**Melting Point** 58.4-59.5 °C  
**Water Content (Karl Fisher)** 0.053%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = -23.1° (C=1 in EtOH)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to structure  
**<sup>1</sup>H NMR** Conforms to structure  
**Purity by HPLC** 99.61%  
**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