

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 00670  
**Lot Number** 000424-180415-31901  
**Product** **Boc-L-valine**

Boc-L-Val-OH

**CAS Number** 13734-41-3  
**Molecular Formula** C<sub>10</sub>H<sub>19</sub>NO<sub>4</sub>

**Molecular Weight** 217.3

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**Appearance** White powder  
**Solubility** Clear solution (0.3 g in 2 ml DMF)  
**Melting Point** 77.6 - 78.7 °C  
**Elemental Analysis (Found)** < 5.0% (C, H, N)  
**Water Content (Karl Fisher)** 0.090%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = - 6.1 ° (C=1 in AcOH)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** 0.23% (30°C, 2h)  
**<sup>1</sup>H NMR** Conforms to structure  
**Chiral HPLC** 100% (ee)  
**D-Enantiomer** Not detectable  
**Purity by HPLC** 99.45%  
**Purity by TLC** > 98%  
**Storage** Store at 0-8°C

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**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**