

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 02270  
**Lot Number** 02270-082206-1  
**Product** **Z-D-valine**

Z-D-Val-OH

**CAS Number** 1685-33-2  
**Molecular Formula** C<sub>13</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight** 251.3

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**Appearance** White powder  
**Melting Point** 59-61° C  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup>: +4.58° (c=2 in AcOH)  
**Purity by HPLC** 99%  
**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