

Chem-Impex International, Inc.

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

Certificate of Analysis

Catalogue Number	03866
Lot Number	000424-221101-12005
Product	Z-L-valine N-hydroxysuccinimide ester Z-L-Val-OSu
CAS Number	3496-11-5
Molecular Formula	C ₁₇ H ₂₀ N ₂ O ₆
Molecular Weight	348.4

Appearance	White powder
Solubility	Clear Solution (0.3 g in 2 mL DMF)
Melting Point	115.0 - 115.8 °C
Water Content (Karl Fisher)	0.17%
Optical Rotation	[α] _D ²⁰ = -24.9 ° (C=2 in Dioxane)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.51% (50 °C, 2h)
¹H NMR	Conforms to structure
Purity by HPLC	98.04%
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