

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03239
<b>Lot Number</b>	000424-210920-37142
<b>Product</b>	<b>Fmoc-L-valinol</b> Fmoc-L-Val-ol
<b>CAS Number</b>	160885-98-3
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>23</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	325.4

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3g in 2mL DMF)
<b>Melting Point</b>	125.0 - 125.3 °C
<b>Water Content (Karl Fisher)</b>	0.08%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -20.5 ° (C=1 in CHCl <sub>3</sub> )
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.38% (60 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.66%
<b>Storage</b>	Store at 0 - 8 °C
<b>Remarks</b>	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