

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	02568
<b>Lot Number</b>	000424-131106-20503
<b>Product</b>	<b>Fmoc-4-chloro-L-phenylalanine</b>  Fmoc-L-Phe(4-Cl)-OH  Fmoc- <i>p</i> -chloro-L-Phe-OH
<b>CAS Number</b>	175453-08-4
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>20</sub> ClNO <sub>4</sub>
<b>Molecular Weight</b>	421.9

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 ml DMF)
<b>Melting Point</b>	192.5-196.5 °C
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -28.4° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.78% (70 °C, 2 hour)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.41%
<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