

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	04096
<b>Product</b>	<b>Fmoc-2-chloro-L-phenylalanine</b>
<b>Lot Number</b>	000424-170911-20422 Fmoc-L-Phe(2-Cl)-OH
<b>CAS Number</b>	198560-41-7
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>20</sub> ClNO <sub>4</sub>
<b>Molecular Weight</b>	421.90

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 gram in 2ml DMF)
<b>Melting Point</b>	130.5-131.3 °C
<b>Water Content (Karl Fisher)</b>	0.623%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 48.0° (C=2, in EtOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.40% (50°C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.30%
<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