

# *Chem-Impex International, Inc.*

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**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

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## *Product Specifications*

<b>Catalogue Number</b>	02425
<b>Product</b>	<b>Fmoc-L-isoIeucine</b> Fmoc-L-Ile-OH Fmoc-(2 <i>S</i> ,3 <i>S</i> )-2-amino-3-methylpentanoic acid
<b>CAS Number</b>	71989-23-6
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>23</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	353.4

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<b>Appearance</b>	White or off-white powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	140 - 155 °C
<b>Elemental Analysis (Theory)</b>	≤ 5% (C, H, N)
<b>Water Content (Karl Fisher)</b>	≤ 1%
<b>Kaiser Test</b>	≤ 0.05%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -12 ± 2 ° (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>	≤ 1% (80 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	≥ 99.7% (ee)
<b>D-Enantiomer</b>	≤ 0.3%
<b>Purity by HPLC</b>	≥ 99%
<b>Purity by TLC</b>	≥ 98%
<b>Storage</b>	Store at 0 - 8 °C

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**For Laboratory Use Only**