

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	03724
<b>Product</b>	<b>Fmoc-L-methionine sulfoxide</b>
<b>Lot Number</b>	000424-190315-35605 Fmoc-L-Met(O)-OH
<b>CAS Number</b>	76265-70-8
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>21</sub> NO <sub>5</sub> S
<b>Molecular Weight</b>	387.5

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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>	165.9 - 169.5 °C
<b>Water Content (Karl Fisher)</b>	0.94%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -4.8 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	0.69% (70 °C, 2h)
<b><sup>13</sup>C NMR</b>	Conforms to standard
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.94% (ee)
<b>D-Enantiomer</b>	0.0534%
<b>Purity by HPLC</b>	99.44%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	Store at 0 - 8 °C

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**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**