

# Chem-Impex International, Inc.

---

**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

---

## Certificate of Analysis

<b>Catalogue Number</b>	00177
<b>Lot Number</b>	000424-121211-35202
<b>Product</b>	<b>Fmoc-S-trityl-L-cysteine</b>  Fmoc-L-Cys(Trt)-OH  (R)-2-Fmoc-3-tritylsulfanyl-propionic acid
<b>CAS Number</b>	103213-32-7
<b>Molecular Formula</b>	C <sub>37</sub> H <sub>31</sub> NO <sub>4</sub> S
<b>Molecular Weight</b>	585.7

---

<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 ml DMF)
<b>Melting Point</b>	175.5-177.0 °C
<b>Water Content (Karl Fisher)</b>	0.51%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +20.88° (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>	0.046% (80°C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>D-Enantiomer</b>	0.0613%
<b>Purity by HPLC</b>	99.74%
<b>Purity by TLC</b>	98%
<b>Storage</b>	Store at 0-8 °C

## ***Certificate of Analysis***

**Catalog Number: 00177**

**Lot Number: 000424-121211-35202**

---

**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**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**