

Chem-Impex International, Inc.

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Certificate of Analysis

| | |
|--------------------------|--|
| Catalogue Number | 03790 |
| Lot Number | 000424-131012-30602 |
| Product | <i>N</i>^α-Boc-<i>N</i>^δ-trityl-L-glutamine Boc-L-Gln(Trt)-OH |
| CAS Number | 132388-69-3 |
| Molecular Formula | C ₂₉ H ₃₂ N ₂ O ₅ |
| Molecular Weight | 488.6 |

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|------------------------------------|--|
| Appearance | White powder |
| Solubility | Clear solution (0.3 g in 2 ml MeOH) |
| Melting Point | 119.8-121.6 °C |
| Water Content (Karl Fisher) | 0.533% |
| Optical Rotation | [α] _D ²⁰ = -10.4° (C=1 in DMF) |
| Infrared Spectrum | Conforms to structure |
| Analysis by Mass Spectra | Conforms to standard |
| Loss on Drying | 0.88% (50 °C, 2h) |
| ¹H NMR | Conforms to structure |
| Purity by HPLC | 99.60% |
| Storage | Store at 0-8 °C |
| 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