

Chem-Impex International, Inc.

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Certificate of Analysis

| | |
|--------------------------|--|
| Catalogue Number | 05319 |
| Lot Number | 000424-210809-31709 |
| Product | <i>N</i>^α-Boc-L-tryptophan methyl ester Boc-L-Trp-OMe |
| CAS Number | 33900-28-6 |
| Molecular Formula | C ₁₇ H ₂₂ N ₂ O ₄ |
| Molecular Weight | 318.4 |

| | |
|------------------------------------|--|
| Appearance | White powder |
| Solubility | Clear Solution (0.3g in 2mL DMF) |
| Melting Point | 147.0 - 147.8 °C |
| Water Content (Karl Fisher) | 0.2% |
| Optical Rotation | [α] _D ²⁰ = -20.1 ° (C=1 in DMF) |
| Infrared Spectrum | Conforms to structure |
| Analysis by Mass Spectra | Conforms to standard |
| Loss on Drying | 0.1% (70 °C, 2h) |
| ¹H NMR | Conforms to structure |
| Purity by HPLC | 99.6% |
| 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