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Certificate of Analysis

Catalogue Number 02454
Lot Number 000424-181120-361022
Product **Fmoc-O-tert-butyl-L-serine**

Fmoc-L-Ser(tBu)-OH

CAS Number 71989-33-8
Molecular Formula C₂₂H₂₅NO₅
Molecular Weight 383.4

Appearance White powder
Solubility Clear solution (0.3g in 2mL DMF)
Melting Point 129.7 - 130.2 °C
Elemental Analysis (Found) < 5% (C, H, N)
Water Content (Karl Fisher) 0.061%
Kaiser Test < 0.05%
Optical Rotation [α]_D²⁰ = +25.9 ° (C=1 in EtOAc)
Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard
Loss on Drying 0.130% (60 °C, 2h)
¹H NMR Conforms to structure
Chiral HPLC 100% (ee)
D-Enantiomer Not detectable
Purity by HPLC 99.60%
Purity by TLC > 98%
Storage 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