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Product Specifications

Catalogue Number	49638
Product	Fmoc-O-<i>tert</i>-butyl-L-serine Fmoc-L-Ser(tBu)-OH
CAS Number	71989-33-8
Molecular Formula	C ₂₂ H ₂₅ NO ₅
Molecular Weight	383.4

Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	125 - 140 °C
Elemental Analysis (Theory)	≤ 5% (C, H and N)
Water Content (Karl Fisher)	≤ 1%
Kaiser Test	≤ 0.05%
Optical Rotation	[α] _{D20} = +25 ± 3 ° (C=1 in EtOAc)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	≤ 1% (60 °C, 2 h)
¹H NMR	Conforms to structure
Chiral HPLC	≥ 99.7% (ee)
D-Enantiomer	≤ 0.3%
Purity by HPLC	≥ 98%
Purity by TLC	≥ 98%
Storage	Store at 0 - 8 °C

For Laboratory Use Only