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Product Specifications

Catalogue Number	49624
Product	Fmoc-L-aspartic acid β-tert-butyl ester Fmoc-L-Asp(OtBu)-OH
CAS Number	71989-14-5
Molecular Formula	C ₂₃ H ₂₅ NO ₆
Molecular Weight	411.5

Appearance	White to off-white powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	145 - 160 °C
Elemental Analysis (Theory)	C, H and N : $\leq 5\%$
Water Content (Karl Fisher)	$\leq 1\%$
Kaiser Test	$\leq 0.05\%$
Optical Rotation	$[\alpha]_{D_{20}} = -22 \pm 2.5^{\circ}$ (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	$\leq 1\%$ (70 °C, 2 h)
¹H NMR	Conforms to structure
Chiral HPLC	$\geq 99.7\%$ (ee)
D-Enantiomer	$\leq 0.3\%$
Purity by HPLC	$\geq 98\%$
Purity by TLC	$\geq 98\%$
Storage	Store at 0 - 8 °C

For Laboratory Use Only