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Product Specifications

Catalogue Number	49640
Product	Fmoc-L-valine Fmoc-L-Val-OH
CAS Number	68858-20-8
Molecular Formula	C ₂₀ H ₂₁ NO ₄
Molecular Weight	339.4

Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	140 - 155 °C
Elemental Analysis (Theory)	≤ 5% (C, H, N)
Water Content (Karl Fisher)	≤ 1%
Kaiser Test	≤ 0.05%
Optical Rotation	[α] _{D20} = -16.5 ± 2 ° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	≤ 2% (60 °C, 2 h)
¹H NMR	Conforms to structure
Chiral HPLC	≥ 99.7% (ee)
D-Enantiomer	≤ 0.3%
Purity by HPLC	≥ 99%
Purity by TLC	≥ 98%
Storage	Store at 0 - 8 °C

For Laboratory Use Only