



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number 04-1415
Lot Number 000424-120511-36001
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	144.0-144.8 °C
Water Content (Karl Fisher)	0.10%
Kaiser Test	0.05%
Optical Rotation	$[\alpha]_D^{20} = -16.8^\circ$ (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to structure
Loss on Drying	0.24% (60 °C, 2h)
1H NMR	Conforms to structure
D-Enantiomer	Not detectable
Purity by HPLC	99.57%
Storage	Store at 0-8°C