



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-1381
Product	Fmoc-L-serine
Lot Number	130310-36101 Fmoc-L-Ser-OH Fmoc-L- β -hydroxyalanine
CAS Number	73724-45-5
Molecular Formula	C ₁₈ H ₁₇ NO ₅
Molecular Weight	327.3
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Appearance	White powder
Solubility	Clear solution (0.3 gram in 2 ml DMF)
Melting Point	95 °C
Elemental Analysis (Theory)	≤ 5%
Water Content (Karl Fisher)	4.63%
Optical Rotation	$[\alpha]_D^{20} = -12.8^\circ$ (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to structure
Loss on Drying	0.4% (40 °C for 2 hours)
¹³C NMR	Conforms to structure
¹H NMR	Conforms to structure
Purity by HPLC	98.55%
Purity by TLC	> 98%
Storage	Store at RT