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Product Specifications

Catalogue Number	02249
Product	Z-L-serine
	Z-L-Ser-OH
	Z-L-β-hydroxyalanine
CAS Number	1145-80-8
Molecular Formula	C ₁₁ H ₁₃ NO ₅
Molecular Weight	239.2

Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	110 - 120 °C
Elemental Analysis (Theory)	≤ 5.0% (C, H, N)
Water Content (Karl Fisher)	≤ 1.0%
Optical Rotation	[α] _D ²⁰ = 5 ± 1.5 ° (C=7 in AcOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	≤ 1.0% (50 °C, 2h)
¹H NMR	Conforms to structure
Chiral HPLC	≥ 99.5% (ee)
D-Enantiomer	≤ 0.5%
Purity by HPLC	≥ 99%
Storage	Store at 0 - 8 °C

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For Laboratory Use Only