



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	04-2438
Product Name	H-Ser(tBu)-OMe·HCl O-t-Butyl-L-serine methyl ester hydrochloride
Lot Number	517798
CAS Registry Number	17114-97-5
Molecular Formula	C ₈ H ₁₇ NO ₃ ·HCl
Molecular Weight	211.70
Appearance	White powder
Solubility	Clear, colorless solution (50 mg/ml in MeOH)
Melting Point	168 °C
Specific Optical Rotation	$\alpha_D^{24} = +6.3^\circ$ (1% in Dimethylformamide)
CHN-Analysis	Calc.as HCl (16.8% Cl)
Elemental Analysis (Theory)	C 45.4% H 8.6% N 6.6%
Elemental Analysis (Found)	C 45.3% H 8.8% N 6.5%
Assay (Elemental Analysis)	99.7% Based on Carbon content
Assay (Elemental Analysis)	Theory C 45.39% Found C 45.27%
Identification (TLC)	Complies with authentic material
Assay by TLC	> 99%
Chloroform/methanol/toluene/H ₂ O 8/8/8/1	Detected by: UV, Ninhydrin, TMB
Chloroform/methanol/acetic acid (98-100%)/H ₂ O 45/13/1/2	
Ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4	
Plate: Silicagel 60 F ₂₅₄	
Storage	Store at 0-5°C