



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-257182
Lot Number: SAMPLE
Product Name: Boc-Trp-OH
CAS Number: 13139-14-5
Molecular Formula: $C_{16}H_{20}N_2O_4$
Molecular Weight: 304.34

Test	Result
Appearance	White powder
Identification (1H-NMR)	Consistent with structure
Identification (Infrared Spectrum)	Consistent with structure
Identification (Mass Spectrometry)	Consistent with standard
Purity (HPLC)	99.78%
Melting Point	135.8 - 136.8 °C
Solubility	Clear solution (0.3 g in 2 mL DMF)
Optical Rotation ($\alpha_{20/D}$)	-18.3° (c = 2 in AcOH)
Impurity	D-Enantiomer: Not detectable
Loss on Drying	0.08% (60 °C in 2 h)
Water Content (KF)	0.65%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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