



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-228402
Lot Number: SAMPLE
Product Name: L-Valine tert-butyl ester hydrochloride
CAS Number: 13518-40-6
Molecular Formula: $C_9H_{19}NO_2 \cdot HCl$
Molecular Weight: 209.71

Test	Result
Appearance	White powder
Identification (1H-NMR)	Consistent with standard
Identification (Mass Spectrometry)	Consistent with standard
Purity (HPLC)	99.86%
Melting Point	142.6 - 143.0 °C
Solubility	Clear solution (0.3 g in 2 mL H ₂ O)
Optical Rotation ($\alpha_{20/D}$)	+5.0 $\pm$ 1° (C = 2 in H ₂ O)
Loss on Drying	0.52% (80 °C, 2 h)
Water Content (KF)	0.090%

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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