

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 03168
Lot Number 000424-150928-16093
Product **L-Valine *tert*-butyl ester hydrochloride**

L-Val-OtBu•HCl

CAS Number 13518-40-6
Molecular Formula C₉H₁₉NO₂•HCl

Molecular Weight 209.7

Appearance White powder
Solubility Clear solution (0.3g in 2 mL H₂O)
Melting Point 142.6-143.0 °C
Water Content (Karl Fisher) 0.090%
Optical Rotation [α]_D²⁰ = +5.0 ± 1° (C=2 in H₂O)
Analysis by Mass Spectra Conforms to standard
Loss on Drying 0.52% (80 °C, 2h)
¹H NMR Conforms to standard
Purity by HPLC 99.86%
Storage Store at 0-8 °C

Remarks See material safety data sheet for additional information
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager