

# Chem-Impex International, Inc.

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## Product Specifications

<b>Catalogue Number</b>	03168
<b>Product</b>	<b>L-Valine <i>tert</i>-butyl ester hydrochloride</b> L-Val-OtBu•HCl
<b>CAS Number</b>	13518-40-6
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>19</sub> NO <sub>2</sub> •HCl
<b>Molecular Weight</b>	209.7

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL H <sub>2</sub> O)
<b>Melting Point</b>	135 - 145 °C
<b>Water Content (Karl Fisher)</b>	≤ 1%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 4.4 ± 1 ° (C=2 in H <sub>2</sub> O)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	≤ 1% (80 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	≥ 98%
<b>Storage</b>	Store at 0 - 8 °C

**For Laboratory Use Only**