

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	04407
<b>Lot Number</b>	000424-150414-16150
<b>Product</b>	<b><math>\beta</math>-Alanine <i>tert</i>-butyl ester hydrochloride</b>

$\beta$ -Ala-OtBu•HCl

<b>CAS Number</b>	58620-93-2
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>15</sub> NO <sub>2</sub> •HCl
<b>Molecular Weight</b>	181.7

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3g in 2mL MeOH)
<b>Melting Point</b>	157.6-157.7 °C
<b>Water Content (Karl Fisher)</b>	≤ 1.0%
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.22% (70 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.55%
<b>Storage</b>	Store at 0-8 °C
<b>Remarks</b>	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**