

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	06029
<b>Lot Number</b>	000424-191012-10836
<b>Product</b>	<b>H-DL-Ala-OMe·HCl</b>  DL-Alanine methyl ester hydrochloride
<b>CAS Number</b>	13515-97-4
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub> ·HCl
<b>Molecular Weight</b>	139.6

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL water)
<b>Melting Point</b>	154.5 - 155.0 °C
<b>Water Content (Karl Fisher)</b>	0.19%
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.26% (70 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.57%
<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