

# 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

<b>Catalogue Number</b>	03010
<b>Lot Number</b>	000424-170910-10856
<b>Product</b>	<b>L-Alanine amide hydrochloride</b>  L-Ala-NH <sub>2</sub> •HCl
<b>CAS Number</b>	33208-99-0
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>8</sub> N <sub>2</sub> O•HCl
<b>Molecular Weight</b>	124.6

---

<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>	217.4-219.6 °C
<b>Water Content (Karl Fisher)</b>	1.363%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = + 11.7° (C=2, in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	1.21%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.52%
<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