

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03296
<b>Lot Number</b>	000424-170819-13311
<b>Product</b>	<b>4-Amino-L-phenylalanine hydrochloride</b>  L-Phe(4-NH <sub>2</sub> )-OH•HCl
<b>CAS Number</b>	62040-55-5
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> •HCl
<b>Molecular Weight</b>	216.67

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<b>Appearance</b>	Off-white powder
<b>Solubility</b>	Clear solution (0.1 g in 2ml H <sub>2</sub> O)
<b>Melting Point</b>	250.3-252.8 °C
<b>Water Content (Karl Fisher)</b>	2.70%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = + 5.9 ° (C=2, in AcOH:H <sub>2</sub> O = 4:1)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	1.92%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.25%
<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