

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	00620
<b>Lot Number</b>	001192-00620-0515
<b>Product</b>	<b>L-Pyroglutamic acid</b>
	L-Pyr-OH
	L-5-Oxo-2-pyrrolidinecarboxylic acid
<b>CAS Number</b>	98-79-3
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	129.1

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<b>Appearance</b>	White crystalline powder
<b>Melting Point</b>	161.0 °C
<b>Heavy Metals</b>	< 10 ppm
<b>Arsenic (As<sub>2</sub>O<sub>2</sub>)</b>	< 1 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ): 0.012% Sulfate (SO <sub>4</sub> <sup>2-</sup> ): 0.005%
<b>Cation</b>	Ammonium (NH <sub>4</sub> ): < 0.02% Iron (Fe): < 10 ppm
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -11.65°
<b>Transmission</b>	98.1%
<b>Loss on Drying</b>	0.20%
<b>Residue On Ignition</b>	0.07%
<b>Assay by titration</b>	99.3%
<b>Storage</b>	Store at RT

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**Remarks**

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**