

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	02237
<b>Product</b>	<b>Z-L-proline</b>  Z-L-Pro-OH  (S)-Z-pyrrolidine-2-carboxylic acid
<b>CAS Number</b>	1148-11-4
<b>Molecular Formula</b>	C <sub>13</sub> H <sub>15</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	249.27

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<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.3g in 2mL EtOH)
<b>Melting Point</b>	75 - 78 °C
<b>Elemental Analysis (Theory)</b>	≤ 5.0% (C,H,N)
<b>Water Content (Karl Fisher)</b>	≤ 1.0%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -62 ± 2 ° (C=2 in AcOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	≤ 1.0% (30 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	≥ 99%
<b>Storage</b>	Store at 0-8 °C.

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**For Laboratory Use Only**