

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	02163
<b>Product</b>	<b>Z-L-glutamic acid</b>
	Z-L-Glu-OH
<b>CAS Number</b>	1155-62-0
<b>Molecular Formula</b>	C <sub>13</sub> H <sub>15</sub> NO <sub>6</sub>
<b>Molecular Weight</b>	281.26

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 gram in 2 mL DMF)
<b>Melting Point</b>	116-126 °C
<b>Water Content (Karl Fisher)</b>	≤ 0.5%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 7.5 ± 1° (C=2 in AcOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to structure
<b>Loss on Drying</b>	≤ 0.5% (40 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>D-Enantiomer</b>	≤ 0.5%
<b>Purity by HPLC</b>	≥ 98%
<b>Chiral Purity</b>	≥ 99.5% (ee)
<b>Storage</b>	Store at 0-8 °C

**For Laboratory Use Only**