

# Chem-Impex International, Inc.

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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

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## Certificate of Analysis

<b>Catalogue Number</b>	11727
<b>Product</b>	<b>Z-L-glutamic acid <math>\gamma</math>-N-hydroxysuccinimide</b>
<b>Lot Number</b>	000424-231025-11527 Z-L-Glu(OSu)-OBzl
<b>CAS Number</b>	34897-67-1
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub>
<b>Molecular Weight</b>	468.46

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<b>Appearance</b>	White powder
<b>Solubility</b>	0.3 gram in 2 ml DMF clear solution
<b>Melting Point</b>	102.6 - 104.9 °C
<b>Water Content (Karl Fisher)</b>	0.15%
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -13.7 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.98% (60 °C at 2 h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.75%
<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