

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	14022
<b>Lot Number</b>	001497-2017032501
<b>Product</b>	<b>L-Pyroglutamic acid ethyl ester</b>

L-Pyr-OEt

<b>CAS Number</b>	7149-65-7
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>11</sub> NO <sub>3</sub>

<b>Molecular Weight</b>	157.1
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<b>Appearance</b>	Crystalline solid or oily liquid
<b>Melting Point</b>	46.5 °C
<b>Water Content (Karl Fisher)</b>	0.43%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = + 3.72 ° (C=10 in EtOH)
<b>Purity by HPLC</b>	99.33%
<b>Storage</b>	Store at 0-8 °C

<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only
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The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager