

# 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>	03118
<b>Lot Number</b>	20021007
<b>Product</b>	<b>L-Phenylalanine <i>tert</i>-butyl ester hydrochloride</b>  L-Phe-OtBu•HCl
<b>CAS Number</b>	15100-75-1
<b>Molecular Formula</b>	C <sub>13</sub> H <sub>19</sub> NO <sub>2</sub> •HCl
<b>Molecular Weight</b>	257.8

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<b>Appearance</b>	White crystalline powder
<b>Melting Point</b>	202-211 °C
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +43.5° (C=2 in EtOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	0.5%
<b>Free Amino Acids</b>	< 1.0% (by TLC)
<b>Assay by titration</b>	101.2%
<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