

# 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>	03098
<b>Lot Number</b>	000424-171106-11046
<b>Product</b>	<b><i>N</i><sup>ε</sup>-Boc-L-lysine <i>tert</i>-butyl ester hydrochloride</b>  L-Lys(Boc)-OtBu•HCl
<b>CAS Number</b>	13288-57-8
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub> •HCl
<b>Molecular Weight</b>	338.9

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 ml Methanol)
<b>Melting Point</b>	141.7-142.1 °C
<b>Water Content (Karl Fisher)</b>	0.12%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +12.1° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.12% (70 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.69%
<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