

# *Chem-Impex International, Inc.*

---

**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

---

## *Certificate of Analysis*

<b>Catalogue Number</b>	03947
<b>Lot Number</b>	000630-08009
<b>Product</b>	<b>Boc-D-norleucine</b>

Boc-D-Nle-OH

<b>CAS Number</b>	55674-63-0
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>21</sub> NO <sub>4</sub>

<b>Molecular Weight</b>	231.31
-------------------------	--------

---

<b>Appearance</b>	Clear oil
<b>Water Content (Karl Fisher)</b>	0.3%
<b>TLC System</b>	H-D-Nle-OH < 0.1%
<b>Optical Rotation</b>	+12.3 ° (C=1 in AcOH)
<b>Analysis by Mass Spectra</b>	M = 231.3
<b>Purity by HPLC</b>	99.1%
<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**