

# 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

**Catalogue Number** 11685  
**Lot Number** 000127-1066471  
**Product** **N<sup>ε</sup>-Nicotinyl-L-lysine hydrochloride**

N<sup>ε</sup>-Nicotinyl-L-lysine hydrochloride

**CAS Number** 158276-23-4  
**Molecular Formula** C<sub>12</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>·HCl  
**Molecular Weight** 287.75

---

**Appearance** Pale yellowish powder  
**Solubility** Clear slightly yellowish solution (25 mg/mL in water)  
**Water Content (Karl Fisher)** 0.8%  
**TLC System** Chloroform/methanol/acetic acid 32% (5:3:1)  
n-butanol/acetic acid/water (4:2:2)  
Chloroform/methanol/acetic acid/water (60:45:14:6)  
plate : silacagel 60 F<sub>254</sub>  
detected by: UV , ninhydrin , chlorine-tolidine  
**Residual Solvents** 2.7% isopropanol  
0.3% diisopropanol  
0.3% ethanol  
0.2% acetonitrile  
**Assay** 74.5% (Nth 16.72%, Nfd 12.45%,Elemental analysis)  
**Purity by TLC** 99%  
**ESI-MS** m=251.2u  
**Storage** Store at 0-8°C  
**Additional Information** Chloride content (IC): 20.3%(AgNO<sub>3</sub>)

# *Certificate of Analysis*

Catalog Number: 11685

Lot Number: 000127-1066471

---

**Remarks**

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**