

# 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>  | 31187   |
| <b>Product</b>           | <b>Galanthamine hydrobromide from Lycoris sp.</b> |
| <b>Lot Number</b>        | 001926-029-20190714                               |
|                          | Galantamine hydrobromide from Lycoris sp.         |
| <b>CAS Number</b>        | 1953-04-4   |
| <b>Molecular Formula</b> | C <sub>17</sub> H <sub>22</sub> BrNO <sub>3</sub> |
| <b>Molecular Weight</b>  | 368.27  |

---

|                                |   |
|--------------------------------|---|
| <b>Appearance</b>              | White to almost white powder  |
| <b>Solubility</b>              | Soluble in 0.1N sodium hydroxide, sparingly soluble in water, very slightly soluble in alcohol, insoluble in n-propanol   |
| <b>Heavy Metals</b>            | < 20 ppm  |
| <b>Anion</b>                   | Bromide Content : 21.6%   |
| <b>Infrared Spectrum</b>       | Conforms to structure   |
| <b>Loss on Drying</b>          | 0.28%   |
| <b>Residual Solvents</b>       | Toluene : 3 ppm<br>Ethanol : 456 ppm<br>Tetrahydrofuran : Not detected  |
| <b>Related Substances</b>      | Other single impurity : Not detected<br>Total impurities : 0.28%  |
| <b>Residue On Ignition</b>     | 0.05%   |
| <b>Assay (anhydrous basis)</b> | 99.70%  |
| <b>Storage</b>                 | Store at ≤ - 10 °C  |
| <b>Additional Information</b>  | (+) - Galanthamine : Not detected<br>N-Desmethylgalantamine : ND ; Dihydrogalantamine : 0.15%<br>Galanthamine N-Oxide : 0.04% ; 6S-Galantamine : ND<br>Didehydrodeoxygalantamine : < 0.4% ; O-Desmethylgalanthamine : < 0.2%, Narwedine : < 0.15% |

# *Certificate of Analysis*

Catalog Number: 31187

Lot Number: 001926-029-20190714

---

**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**