

# 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** 32456  
**Lot Number** 003020-03-11-2018  
**Product** **Cinchonine**

(-)-Cinchonine

**CAS Number** 118-10-5  
**Molecular Formula** C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O

**Molecular Weight** 294.4

---

**Appearance** White micro-crystalline powder

**Melting Point** 261 °C

**pH** 8.10

**Optical Rotation** [α]<sup>20</sup><sub>D</sub> = 248.71 °

**Loss on Drying** 0.50%

**Residual Solvents** Chloroform : < 0.1%

**Related Substances** Dihydrocinchonine : 15.29%  
Quinidine : Not detected  
Quinine : Not detected

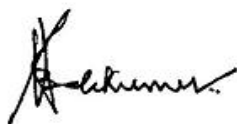
**Residue On Ignition** 0.29%

**Purity by HPLC** 99.40%

**Storage** Store at RT

**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