

# 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

**Catalogue Number** 22883  
**Lot Number** 002126-710  
**Product** **Acridine Orange hydrochloride hydrate**

3,6-Bis(dimethylamino)acridine hydrochloride

**CAS Number** 65-61-2  
**Molecular Formula**  $C_{17}H_{19}N_3 \cdot HCl \cdot xH_2O$   
**Molecular Weight** 301.82

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**Appearance** Brick red powder  
**Solubility** Orange to red orange solution  
**Solubility (Turbidity)** Clear solution  
**Water Content (Karl Fisher)** 4.90%  
**Infrared Spectrum** Conforms to structure  
**UV Ratios** Spectrophotometric assay (Conc. 10 mg / Ltr in water) :  
At 492 nm = 1.234  
At 269 nm = 1.226  
At 231 nm = 0.538  
**Extinction Co-Efficient** In water :  
E 492 nm : 37243  
E 269 nm : 37002  
E 231 nm : 16237  
**Purity by HPLC** 99%  
**Storage** Store at RT

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**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**