

# 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** 06582  
**Lot Number** 000424-160302-11209  
**Product** **Z-Trp-Trp-OH**

**CAS Number** 57850-17-6  
**Molecular Formula** C<sub>30</sub>H<sub>28</sub>N<sub>4</sub>O<sub>5</sub>  
**Molecular Weight** 524.58

---

**Appearance** White powder  
**Solubility** Clear solution (0.3 g in 2 mL DMF)  
**Melting Point** 201-202.4 °C  
**Water Content (Karl Fisher)** 1.1%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = -13.8° (C=1 in DMF)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**<sup>1</sup>H NMR** Conforms to structure  
**Purity by HPLC** 98.30%  
**Storage** Store at 0-8 °C  
**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