Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

Shipping and Correspondence: Manufacturing site:

935 Dillon Drive

Wood Dale, IL 60191

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 16468

Product Z-cis-D-4-hydroxyproline

Lot Number 000424-220427-21338

Z-D-cis-Hyp-OH

CAS Number 130930-25-5 Molecular Formula C₁₃H₁₅NO₅ Molecular Weight 265.27

Appearance White powder

Solubility Clear solution (0.3 g in 2 mL EtOH)

0.2%

Melting Point 108.5 - 110.6 °C

Water Content (Karl

Fisher)

Optical Rotation [a]_D²⁰ = 38.9 ° (C=1 in EtOH)

Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard

Loss on Drying 0.2% (50 °C, 2h)

1H NMR Conforms to structure

Purity by HPLC 98.17%

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