

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 03839  
**Lot Number** 000027-14733-2  
**Product** **Z-N<sup>o</sup>-nitro-D-arginine**

Z-D-Arg(NO<sub>2</sub>)-OH

**CAS Number** 2279-08-5  
**Molecular Formula** C<sub>14</sub>H<sub>19</sub>N<sub>5</sub>O<sub>6</sub>

**Molecular Weight** 353.3

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**Appearance** White to off-white powder  
**Solubility** Clear solution (1 mmol in 2 mL DMF)  
**TLC System** System 1: CHCl<sub>3</sub>:MeOH:AcOH (90:8:2)  
Chloride/Starch/KI development  
System 2: CHCl<sub>3</sub>:MeOH:AcOH:H<sub>2</sub>O (85:13:0.5:1.5)  
Ninhydrin development  
**Optical Rotation** [α]<sub>D</sub> = +2.7° (C=1 in MeOH)  
**Infrared Spectrum** Conforms to structure  
**Purity by HPLC** 99.4%  
**Purity by TLC** > 98%  
**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