

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03027
<b>Lot Number</b>	000424-150104-12925
<b>Product</b>	<b><i>N</i><sup>ω</sup>-Nitro-D-arginine methyl ester hydrochloride</b> D-Arg(NO <sub>2</sub> )-OMe•HCl
<b>CAS Number</b>	50912-92-0
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>15</sub> N <sub>5</sub> O <sub>4</sub> •HCl
<b>Molecular Weight</b>	269.7

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<b>Appearance</b>	White to off white powder
<b>Solubility</b>	Clear solution (0.3 g in 5 mL H <sub>2</sub> O)
<b>Melting Point</b>	156.3-156.9 °C
<b>Water Content (Karl Fisher)</b>	0.268%
<b>TLC System</b>	n-Butanol/Acetic acid/H <sub>2</sub> O (4:2:2)
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -13.2° (c=3.2 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	1.14% (60 °C for 2 hours)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.65%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	Store at 0-8 °C

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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**