

# *Chem-Impex International, Inc.*

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## *Product Specifications*

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<b>Catalogue Number</b>	04336
<b>Product</b>	<b><i>N</i><sup>α</sup>-Acetyl-L-arginine methyl ester</b> Ac-L-Arg-OMe•HCl
<b>CAS Number</b>	1784-05-0
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>18</sub> N <sub>4</sub> O <sub>3</sub> ·HCl
<b>Molecular Weight</b>	266.77
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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear colorless solution (50 mg/mL in Methanol)
<b>Melting Point</b>	181 - 183 °C
<b>Elemental Analysis (Theory)</b>	C = 40.26 ± 0.4%; H = 7.21 ± 0.4%; N = 20.86 ± 0.4% (Calculated as x 0.1 Water : 0.7%, HCl : 13.6%)
<b>Water Content (Karl Fisher)</b>	≤ 1%
<b>TLC System</b>	Chloroform/Methanol/Acetic acid 32% (5:3:1) Chloroform/Methanol/Acetic acid/Water (70:42:0.5:10) Ethylacetate/Pyridine/Acetic acid/Water (60:30:9:16.5) Plate: Silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, Chlorine-Tolidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = -15 ± 2 ° (C=1% in MeOH)
<b>Titration</b>	Chloride content : ≤ 14% (AgNO <sub>3</sub> )
<b>Purity by TLC</b>	≥ 99%
<b>Storage</b>	Store at 0 - 8 °C

**For Laboratory Use Only**