

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03136
<b>Lot Number</b>	000424-140212-16220
<b>Product</b>	<b>D-Serine methyl ester hydrochloride</b>  D-Ser-OMe•HCl  D-β-Hydroxyalanine methyl ester hydrochloride
<b>CAS Number</b>	5874-57-7
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>9</sub> O <sub>3</sub> N•HCl
<b>Molecular Weight</b>	155.58

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<b>Appearance</b>	White to off-white crystalline powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL Methanol)
<b>Melting Point</b>	143.4-147.4 °C
<b>Water Content (Karl Fisher)</b>	0.16%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -4.2° (C=3 in MeOH)
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.9% (70 °C, 2h)
<b>Purity by HPLC</b>	99%
<b>Storage</b>	Store at 0-8 °C
<b>Remarks</b>	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