

# Chem-Impex International, Inc.

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## Product Specifications

<b>Catalogue Number</b>	07087
<b>Product</b>	<b>O-Sulfo-L-serine</b> L-Ser(SO <sub>3</sub> H)-OH L-Serine <i>O</i> -sulfonic acid
<b>CAS Number</b>	626-69-7
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>6</sub> S
<b>Molecular Weight</b>	185.16
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<b>Appearance</b>	White crystals
<b>Solubility</b>	Clear, colorless solution (50 mg/ml in water)
<b>Melting Point</b>	210 - 214 °C
<b>Elemental Analysis (Theory)</b>	C= 19.5 ± 0.5%; H= 3.8 ± 0.5%; N= 7.6 ± 0.5%
<b>Water Content (Karl Fisher)</b>	≤ 0.5%
<b>TLC System</b>	n-butanol/acetic acid/H <sub>2</sub> O (4/2/2) 2-butanol/pyridine/H <sub>2</sub> O (7/7/6) plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = 10 ± 2 ° (C=3.4%, in 1N HCl)
<b>Assay</b>	≥ 99.5% (Cth: 19.46%)
<b>Purity by TLC</b>	≥ 99%
<b>Storage</b>	Store at 0 - 8 °C

**For Laboratory Use Only**