

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	09483
<b>Product</b>	<b>1-Methyl-L-Histidine</b>
	L-His(1-Me)-OH
	L-His(N <sup>im</sup> -Me)-OH
<b>CAS Number</b>	332-80-9
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub> ·HCl
<b>Molecular Weight</b>	205.64

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear colorless solution (50 mg/mL in 80% acetic acid)
<b>Elemental Analysis (Found)</b>	C = 49.7 ± 0.4%, H = 6.6 ± 0.4%, N = 24.8 ± 0.4%
<b>TLC System</b>	n-Butanol/Acetic acid/H <sub>2</sub> O (4:2:2) Methanol/Chloroform/Ammonia 17% (2:2:1) Isopropanol/Ammonia conc. (1:1) Plate: silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, chlorine-toluidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = +15 ± 2° (C=2% in 1 N HCl)
<b>Assay</b>	≥ 96% (Elemental Analysis based on Nitrogen Content)
<b>Assay by titration</b>	≥ 98% (HClO <sub>4</sub> )
<b>Purity by TLC</b>	≥ 99%
<b>Storage</b>	Store at 0-8 °C

**For Laboratory Use Only**