

# Chem-Impex International, Inc.

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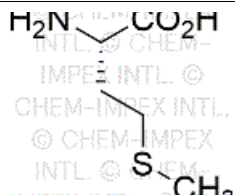
**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Product Specifications

**Catalogue Number** 00221  
**Product** **L-Methionine**

L-Met-OH

(S)-Methionine

**CAS Number** 63-68-3

**Molecular Formula** C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>S

**Molecular Weight** 149.2

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**Appearance** White to off-white crystalline powder

**Heavy Metals** ≤ 15 ppm

**Anion** Chloride (Cl<sup>-</sup>) : ≤ 0.05%  
Sulfate (SO<sub>4</sub>) : ≤ 0.03%

**Cation** Iron (Fe) : ≤ 30 ppm

**pH** 5.6 - 6.1

**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = 22.4 - 24.7 °

**Loss on Drying** ≤ 0.3%

**Related Substances** Methionine sulfoxide : ≤ 0.1%  
N-Acetyl-D,L- methionine : ≤ 0.2%  
Any unspecified impurity : ≤ 0.1%  
Total unspecified impurities : ≤ 0.3%

**Residue On Ignition** ≤ 0.4%

**Assay** 98.5 - 101.5% (on dried basis)

**Grade** Meets USP specification

**Storage** Store at RT

**Additional Information** Identification :  
Test A : Infrared spectrum : Conforms to structure

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**For Laboratory Use Only**