

Product Specification

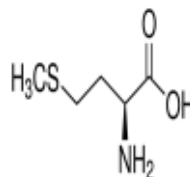
Product Name:
L-Methionine -

Product Number: M8439

CAS Number: 63-68-3

Formula: C₅H₁₁NO₂S

Formula Weight: 149.21 g/mol



TEST	Specification
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Appearance (Color)	White
Appearance (Form)	Powder
Appearance of Solution (Color)	Colorless
Appearance of Solution (Turbidity)	Clear
Appearance of Solution (Form)	Solution
Heavy Metals	≤ 10 ppm
Identification A (USP)	Pass
Identification A (EP)	Pass
Identification B (EP)	Pass
Iron (Fe)	≤ 10 ppm
Loss on Drying	≤ 0.20 %
Ammonium	≤ 0.02 %
Assay	99.0 - 101.0 %
Chloride (Cl)	≤ 0.020 %
Related Compounds	Pass
Clarity & Color of Solution Clear, colorless solution	Pass
Cytotoxicity	Pass
Residue on Ignition	< 0.10 %
Related Substances	Pass
Specific Rotation (USP) C=2, 6N HCl, dried basis, 25°C	22.4 - 24.7 °
pH	5.6 - 6.1
pH 2.5% in water	5.5 - 6.2

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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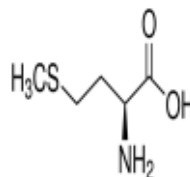
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TEST	Specification
Endotoxin Assay	≤ 1.0 EU/mg
Residual Solvents	Meets Requirements
Arsenic (As)	≤ 1 ppm
Specific Rotation (EP) C=2, 6N HCl, dried basis, 20°C	23.0 - 24.0 °
Sulfate (SO ₄)	≤ 0.020 %

Specification: PRD.3.ZQ5.10000051126

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