

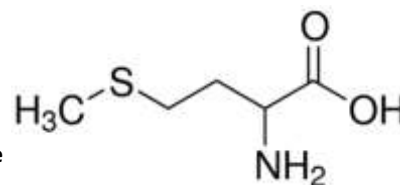


Product Specification

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DL-METHIONINE FOR BIOCHEMISTRY

PRODUCT CODE	037132
SYNONYMS	--
C.I. NO.	--
CASR NO.	(59-51-8)
ATOMIC OR MOLECULAR FORMULA	C ₅ H ₁₁ NO ₂ S
ATOMIC OR MOLECULAR WEIGHT	149.21
PROPERTIES	Very slightly soluble in 95% alcohol. Insoluble in ether. Soluble in acids, alkalies.



PARAMETER	LIMIT
Description	White crystalline powder / platelets or small flakes.
Solubility	2% solution in water is clear and colourless.
Identification (By FTIR)	Conforms.
Identification (Tests A,B,C,D)	Passes test.
Specific Rotation (C=5, 1 M HCl)	- 0.05° to + 0.05°
Assay (Perchloric acid Titration. Dried subs.)	99.0 – 101.0%
pH of (2% solution in water)	5.4 – 6.1
Residual solvents	Meets the requirement.

MAXIMUM LIMIT OF IMPURITIES	
Loss on drying (at 105°C)	0.5%
Sulphated ash	0.1%
Chloride (Cl)	0.02%
Sulphate (SO ₄)	0.02%
Iron (Fe)	0.001%
Lead (Pb)	0.001%
Heavy metals (as Pb)	0.002%
Related substance (TLC)	0.2%

Note(s) : Assay (if applicable) method mentioned	
WARNING Hazard statements: Not hazardous. No hazards. Precautionary statements Prevention: ----- Response: Disposal: -----	IMDG Code :- UN No. : IATA
Hazard Pictogram(s) :	