

4360 – METHYL SULFONYL METHANE (MSM)

REF NO: TBL/QA/SS/F/4360	STANDARD SPECIFICATION FOR METHYL SULFONYL METHANE (MSM)	Rev. No: 00
Issue No: 01		Review Date: 21/08/2028
Issue Date: 22/09/2025		Product code: 4360

PRODUCT PROPERTIES

C.A.S Number	CAS 67-71-0
Chemical Formula	C ₂ H ₆ O ₂ S.
Formula weight	94.13
Functional Uses	MSM is a potent anti-inflammatory commonly used to treat osteoarthritis, rheumatoid arthritis, tendonitis, and tenosynovitis. Use as high temperature solvent inorganic and organic substances, organic chemical raw materials, food additives and health products raw materials, also used as gas chromatography stationary phase (maximum use temperature 30 °C, acetone as solvent) and analytical reagents and used in polymerization process.
Standard Packaging	25.0 gram

PHYSICAL PARAMETERS

PRODUCT PARAMETER		SPECIFICATION
Appearance		White crystalline powder.
Taste		Bitter taste.
Identification	IR Identification	The IR spectrum of the sample should be concordant with the IR spectrum of the MSM working standard.
	Retention time	The Retention time of the sample assay peak corresponds to the Standard peak.

CHEMICAL PARAMETERS

PRODUCT PARAMETER		SPECIFICATION
Water Content		NMT – 0.1%
Melting point		108.5°C – 110.5°C
Heavy Metals		NMT – 3 µg per g
Assay		NLT – 99.0%
Chromatographic purity (%)		NLT – 99.8%
a) Limit of Dimethyl Sulfoxide as an individual impurity (%)		NMT – 0.1%
b) Any other individual		NMT – 0.05%



impurity (%)	
c) Total impurities (%)	NMT – 0.2%

MICROBIAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Total viable count	NMT – 1000 cfu/g
<i>Escherichia coli</i>	Negative
<i>Yeast & Molds</i>	NMT – 100 cfu/g

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

