
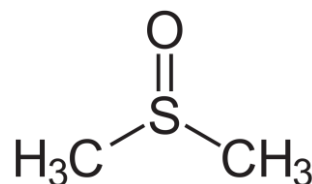
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	Date of Issue:	10-DEC-2024	Approved by:	Dr. Iman Kamranfar
	Review Date:	10-JAN-2025	Signature:	
	Title:	<b>TECHNICAL DATASHEET</b>		

### Dimethyl Sulfoxide; Molecular Biology Grade

<b>Filtration, Treatment</b>	Nuclease-free, Protease-free, Highly Pure, Dehydrated
<b>Product Codes</b>	DMS-001-500ML, DMS-001-100ML
<b>Shelf Life</b>	3 years from DOM
<b>Storage Temperature</b>	10°C - 25°C
<b>Shipping Temperature</b>	ambient
<b>CAS Nr.</b>	67-68-5
<b>EINECS Nr.</b>	200-664-3
<b>MDL Nr.</b>	MFCD00002089
<b>Molecular Formula</b>	(CH <sub>3</sub> ) <sub>2</sub> SO
<b>Molecular Weight</b>	78.14



### QC Specifications

Physical and Chemical Analysis	Specifications	Units
Appearance	Clear liquid	n/a
Purity	≥ 99.5	%
IR Spectrum	Passes Test	n/a
Water	≤ 0.03	%
Nuclease (Dnase/Rnase)	Not Detected	n/a
Protease	Not Detected	n/a
Acidity	≤ 0.0002	meq/g
Alkalinity	≤ 0.0002	meq/g
Coloration	≤ 10	APHA
Melting Point	≥ 18	°C
Substances Colored by H <sub>2</sub> SO <sub>4</sub>	Passes Test	n/a
Evaporation Residue	≤ 10	ppm
Heavy Metals (as Pb)	≤ 1	ppm
Aluminum (Al)	≤ 0.2	ppm
Barium (Ba)	≤ 0.02	ppm
Calcium (Ca)	≤ 0.5	ppm
Cadmium (Cd)	≤ 0.05	ppm
Cobalt (Co)	≤ 0.02	ppm
Chromium (Cr)	≤ 0.02	ppm
Copper (Cu)	≤ 0.02	ppm
Iron (Fe)	≤ 0.1	ppm
Potassium (K)	≤ 0.1	ppm
Magnesium (Mg)	≤ 0.05	ppm
Manganese (Mn)	≤ 0.02	ppm
Sodium (Na)	≤ 5	ppm
Lead (Pb)	≤ 0.05	ppm
Tin (Sn)	≤ 0.1	ppm
Strontium (Sr)	≤ 0.02	ppm
Zinc (Zn)	≤ 0.1	ppm

**Product Use:** This product is intended for laboratory use only.