

# DIMETHYL SULFOXIDE



CAS Number: 67-68-5

Other Names: DMSO; Methyl sulfoxide; Methylsulfinylmethane

Formula:  $C_2H_6OS$  or  $(CH_3)_2SO$

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## PRODUCT INTRODUCTION

Dimethyl sulfoxide is a 2-carbon sulfoxide in which the sulfur atom has two methyl substituents. Dimethyl sulfoxide appears as a clear liquid, essentially odorless. It is a highly polar organic liquid that is used widely as a chemical solvent and a free radical scavenger.

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## PHYSICAL AND CHEMICAL PROPERTIES

Purity (DMSO) %	99.93
Crystallization Point °C	18.34
Acid Value MGKOH/G	0.02
Moisture %	0.02
Transmittance (400MM)%	99.00
Refractive Index (20°C)	1.4786

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## APPLICATIONS

- DMSO is frequently used as a solvent for chemical reactions involving salts, most notably Finkelstein reactions and other nucleophilic substitutions.
- It is also extensively used as an extractant in biochemistry and cell biology.
- DMSO is used in polymerase chain reaction (PCR) to inhibit secondary structures in the DNA template or the DNA primers.
- DMSO may also be used as a cryoprotectant, added to cell media to reduce ice formation and thereby prevent cell death during the freezing process.
- medicine, DMSO is predominantly used as a topical analgesic, a vehicle for topical application of pharmaceuticals, as an anti-inflammatory, and an antioxidant.[19] Because DMSO increases the rate of absorption of some compounds through biological tissues, including skin, it is used in some transdermal drug delivery systems.

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## PACKAGING OPTIONS

Drums

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