

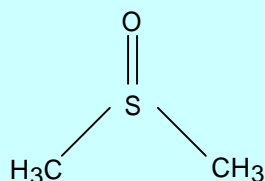
DMSO EG

(Dimethyl Sulfoxide)

Electronic Grade



Structure



Synonyms

Dimethyl Sulfoxide

Formula

 $(\text{CH}_3)_2\text{SO}$

Molecular Weight

78.13 g/mol

CAS No.

67-68-5

Physical properties

The physical data submitted below were derived from the literature and from Sanfu chemical's measurements and calculations. The values quoted are not binding for your commercial products.

Form	Colorless liquid
Acid value (mgKOH/g)	Max. 0.03
Melting point (Crystal)	18.1 °C
Boiling point	86 °C
Vapor pressure (at 20 °C)	0.55 mbar
Specific Gravity (at 20 °C)	1.101
Vapor Density	2.7
Flash point	95 °C (ASTM D 93-73)
Autoignition point	300 °C

Specification

Parameter	Specification	Test Method
Assay	Min. 99.90 %	By GC
Water	Max. 0.10 %	
Particles(0.5>um)	Max. 100 pieces/ml	
Color	Max. 10	APHA
Metal Content	Max. 10 ppb of each metals	
Zn<10ppb, Ag<10 ppb, Al<10ppb, Ba<10ppb, Ca<10ppb, Cd<10ppb, Co<10ppb, Cr<10ppb, CR<10ppb, Cu<10ppb, Fe<10ppb, K<10ppb, Li<10ppb, Mg<10ppb, Mn<10ppb, Na<10ppb, Ni<10ppb, Pb<10ppb, Sr<10ppb, Sr<10ppb		

Additional parameters on request

Applications

Organosulfone compounds are widely used in refineries, steamcrackers, aromatic extraction and petrochemical manufacturing as they acts as;

Hydrotreating catalysts
Initial catalyst improvers
Sulfur sources
Catalyst presulfiding
Natural gas sulfur recovery

Organosulfone compounds are also used in;
Organic synthesis as organosulfur sources into target organic molecules for the manufacture of pharmaceuticals, adhesives biocides and agricultural products.

Polymer production
Lubricant and fuel additives for extreme pressure functionality
Extraction and reaction solvent
Metal treatment
Fungicide

Sulfoxide (R_2SO) is any of various organic sulfur compounds having the group -SO (sulfinyl group) whereas sulfone ($RSOOR$) with the group - SO_2 (sulfonyl group). They are derived from oxidation of sulfides. They are widely used as solvent of both extraction and reaction as well as intermediates for the synthesis of textile chemicals and pharmaceuticals and agrochemicals. Dimethyl Sulfoxide is used as an effective extraction solvent and solvent improver for the separation of aromatic compounds (benzene, toluene and xylenes) from aliphatic hydrocarbons, and for fractionation of unsaturated components (olefins and alkynes) from saturated feedstock. It is used as a thermally stable medium for carrying out chemical reactions to make pharmaceuticals, agrochemicals (especially pyrethroid insecticides) paint and coating materials and biocides. Its pharmaceutical grade can be used as a as a local analgesic and anti-inflammatory agent.

Stability / Storage

Self Life : 1 year when stored in sealed containers protected against air and moisture.
Keep container tightly closed. Store in a cool dry well ventilated flammable liquid storage area. Keep product out of light
Use general or local exhaust ventilation.

Packaging

230 Kg net PE drums,
ISO-container and bulk.

Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation

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