DIMETHYL SULFOXIDE
Product Number D5879
Storage Temperature RT

CAS #: 67-68-5
Synonyms: A 10846, Deltam, Demeso, Demasorb, Demavet, Demsodrox, Dermasorb, Dimethyl Sulphoxide, Dimexide, Dipirarttl-Tropico, DMS-70, DMS-90, DMSO, Dolicur, Domoso, Dromisol, Durasorb, Gamasol 90, Hyadur, Infiltrina, M 176, Methylsulfinylmethane, NSC-763, Rimso-50, Somipront, SQ 9453, Sulfinylbis(methane), Syntexan, Topsym

**Product Description**

DMSO is a highly polar substance with exceptional solvent properties for organic and inorganic chemicals and is widely used as an industrial solvent. DMSO is also used to protect living cells during cold storage. Among its many other uses, DMSO has been used in the oxidation of thiols and disulfides to sulfonic acids.

DMSO is **incompatible** with polysulfone, flexible and rigid PVC tubing and polycarbonate.

DMSO is **moderately** compatible with polystyrene and ECTFE/ETFE.

DMSO is **compatible** with LDPE, HDPE, polypropylene, PPCO polypropylene copolymer polymethylpentene, nylon and teflon FEP.

**Preparation Instructions**

To prepare a sterile solution, use a teflon or nylon membrane to sterile-filter the DMSO; do not use a cellulose acetate membrane.

DMSO is soluble in water, ethanol, acetone, ether, benzene and chloroform.

DMSO is stable up to 100°C in alkaline, acidic and neutral conditions. At temperatures approaching its boiling point of 189°C, DMSO is stable in neutral or alkaline conditions.

DMSO reacts violently with acyl halides, metal alkoxides, metal oxosalts, perchloric acid and sodium hydroxide.

**Storage/Stability**

This product should be stored at room temperature and protected from exposure to moisture. DMSO is a very hygroscopic liquid. The purity of the material was essentially unchanged per gas chromatographic analysis. DMSO is thermally stable. It can be heated to 150°C for 24 hours with less than 0.1% loss in purity.
References
5. Nalgene Reference/Chemical Resistance Chart (Nalgene Chemical Company catalog)
7. Supplier's information.

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