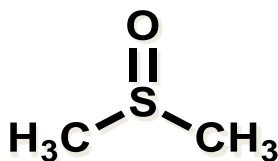


DMSO-ExG

(Dimethyl Sulfoxide-Excipient Grade)

Molecular Weight	78.13
CAS Registry Number	67-68-5
ENCS Number	2-1553
EINECS Number	200-664-3
TSCA	registered
DSL	registered



Specification

USP Specification	
Identification (A) Infrared spectroscopy	Compares with reference sample.
Identification (B) Chemical Test	A deep violet, crystalline solid is obtained, and it is soluble in chloroform, yielding a red solution.
Specific gravity (25°C)	Between 1.095 and 1.101.
Refractive index (25°C)	Between 1.4755 and 1.4775.
Acidity	Not more than 5.0 mL of 0.01 N sodium hydroxide is consumed.
Water determination	Not more than 0.1%.
Ultraviolet absorbance	The spectrum is smooth with no absorption maxima. The absorbance at 275 nm is not more than 0.20. The absorbance ratio A_{285}/A_{275} is not more than 0.65. The absorbance ratio A_{295}/A_{275} is not more than 0.45.
Limit of nonvolatile residue	The weight of the residue does not exceed 0.01%.
Related compounds	Not more than 0.1% of total impurities is found.
Assay	Not less than 99.9 percent of C_2H_6OS , calculated on the anhydrous basis.

Ph. Eur. Specification	
First Identification (C) Infrared absorption	Compares with reference sample.
Second Identification (A) Relative density (20°C)	1.100 to 1.104.
Second Identification (B) Refractive index (20°C)	1.478 to 1.480.
Second Identification (D) Chemical Test	The solution is greenish-yellow. Heat in a water-bath at 50 °C. The colour changes to green or bluish-green. Cool. The colour changes to greenish-yellow.
Acidity	Not more than 5.0 mL of 0.01 M sodium hydroxide is required to produce a pink colour.
Freezing point	Minimum 18.3 °C.
Ultraviolet absorbance	No absorption maximum between 270 nm and 350 nm. The absorbance at 275nm : not more than 0.30. The absorbance at 285nm : not more than 0.20. The absorbance at 295nm : not more than 0.20.
Related substances	Unspecified impurities : for each impurity, maximum 0.10 %. Total : maximum 0.15 %.
Water	Maximum 0.2 %.

Additional Information	
Odor	Odorless

Toray Fine Chemicals Co., Ltd. guarantees that the product complies with the quality and specifications described above.

Toray Fine Chemicals Co., Ltd. makes no warranty with respect to fitness for use in the particular field or for any special purpose or use.