

DIMETHYL SULFOXIDE USP SPECIFICATION

Sr.No.	Tests	Specifications
1	Description	Clear, colorless, odorless hygroscopic liquid.
2	Solubility	Soluble in water; Practically insoluble in acetone, in alcohol, in benzene, in chloroform, and in ether
3	Identification A) By IR	The spectrum obtained with the sample corresponds in position & relative intensity to those in the spectrum obtained with that of standard.
	B) Chemical test	A deep violet, crystalline solid is obtained, and it is soluble in Chloroform, yielding a red solution.
4	Specific gravity at 25°C	Between 1.095 to 1.101
5	Refractive index at 25°C	Between 1.4755 to 1.4775
6	Acidity	Not more than 5.0 ml of 0.01N Sodium hydroxide is consumed.
7	Water	Not more than 0.1%
8	Ultraviolet absorbance	
	At 275 nm	Not more than 0.20
	At A_{285}/A_{275}	Not more than 0.65
	At A_{295}/A_{275}	Not more than 0.45
9	Limit of non volatile residue	Not more than 0.01% the weight of residue.
10	Related substances (By GC) Total impurity	Not more than 0.1%
11	Assay	Not less than 99.9% of Dimethyl sulfoxide, on anhydrous basis.
12	Residual Solvent Acetone	Not more than 5000 ppm v/v.