

DIMETHYL SULFOXIDE Ph Eur SPECIFICATION

Sr.No.	Test	Specification
1	Appearance	Colourless liquid or colourless crystals, hygroscopic.
2	Solubility	Miscible with water and with ethanol (96%).
3	Identification	
	A) Relative density at 20°C	1.100 to 1.104 at 20°C
	B) Refractive index at 20 ± 0.5°C	1.478 to 1.480 at 20 ± 0.5°C
	C) By IR	The spectrum obtained with the sample corresponds in position & relative intensity to those in the spectrum obtained with that of Dimethyl sulfoxide CRS or its Working standard. (Purity index should not be less than 0.99)
	D) Chemical test	The colour changes to green or bluish-green, After cooling colour changes to greenish-yellow
4	Acidity	Not more than 5.0 ml of 0.01M Sodium hydroxide should be required to produce a pink colour.
5	Relative density at 20°C	1.100 to 1.104 at 20°C
6	Refractive index at 20 ± 0.5°C	1.478 to 1.480 at 20 ± 0.5°C
7	Freezing point	Minimum 18.3°C.
8	Absorbance At 275 nm	Not more than 0.30
	At 285 nm	Not more than 0.20
	At 295 nm	Not more than 0.20
	Between 270nm and 350 nm	It shows no absorption maximum.
9	Related substances (By GC) Total	
	Unspecified impurities (For each impurity)	Maximum 0.10%
	Total impurities Maximum 0.15%	Maximum 0.15%
10	Water	Maximum 0.2%
11	Residual solvents (By GC)	
	Acetone	Not more than 5000 ppm v/v