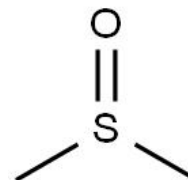


Technical Data Sheet

Dimethyl sulfoxide

Compound Information

Product Name:	Dimethyl sulfoxide
CAS No.:	67-68-5
Molecular Formula:	C ₂ H ₆ OS
Molecular Weight:	78.13
Revision Date:	2026-04-16



Analytical Information

Tests	Specifications
Grade	USP/Ph.Eur
Appearance	colorless liquid
Solubility	H ₂ O: miscible (completely)
Identification (By chemical test 1)	A deep violet, crystalline solid should obtaine which should soluble in chloroform, yielding a red solution.
Identification (By chemical test 2)	The colour changes to green or bluish-green. Cool.The colour changes to greenish-yellow.
Identification (by Relative density, 20°C)	1.100-1.104
Identification (By Refractive index, 20±0.5°C)	1.478-1.480
Specific gravity, 25°C	Between 1.095 to 1.101
Relative density,20°C	1.100-1.104
Refractive index (20°C ± 0.5°C)	1.478-1.480
Refractive index, 25°C	1.4755 - 1.4775
Freezing point	NLT 18.3°C
Acidity	Not more than 5.0ml of 0.01N sodium hydroxide should consume
Water	NMT 0.1%
UV absorbance profile (10mm cell)@270nm-350nm	The spectrum is smooth with no absorption maxima.
UV absorbance ratio (A285nm/A275nm)	NMT 0.65
UV absorbance ratio (A295nm/A275nm)	NMT 0.45
UV absorbance profile (10mm cell)@275nm	NMT 0.20
UV absorbance profile (10mm cell)@285nm	NMT 0.20
UV absorbance profile (10mm cell)@295nm	NMT 0.20
Limit of Non volatile residue	NMT 0.01%
Related compounds / Related substances - Total impurities	NMT 0.10%
Related substance (Unspecified impurities)	NMT 0.10%
Purity	NLT 99.9%
Total aerobic microbial count	NMT 1000 CFU/mL
Total Yeast and mold count	NMT 100 CFU/mL
MS	Pass test
1H NMR	Pass test
13C NMR	Pass test
IR	Pass test
Raman	Pass test

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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