

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

Dimethyl sulfoxide - meets EP testing specifications, meets USP testing specifications

Product Number:

D1435

CAS Number:

67-68-5

MDL:

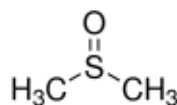
MFCD00002089

Formula:

C₂H₆OS

Formula Weight:

78.13 g/mol



TEST	Specification
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Identification A (USP)	Compares to Reference Standard
Infrared Spectroscopy	
Identification B (USP)	Conforms
Chemical Test Produces Deep Violet, Crystalline Solid, Soluble in Chloroform, Yielding a Red Solution	
Acidity (USP)	≤ 5.0
mL of 0.01 N Sodium Hydroxide	
Water (by Karl Fischer) (USP)	≤ 0.1 %
UV Absorbance (USP)	Pass
No Absorption Maxima Between 270 nm and 350 nm	
UV Absorbance 275nm (USP)	≤ 0.20
UV Absorbance Ratio (USP)	≤ 0.65
A ₂₈₅ /A ₂₇₅	
UV Absorbance Ratio (USP)	≤ 0.45
A ₂₉₅ /A ₂₇₅	
Limit of Nonvol. Residue (USP)	≤ 0.01 %
Per 100 g Sample	
Related Compounds (USP)	≤ 0.1 %
Total Impurities	
Assay (USP)	≥ 99.9 %
Anhydrous Basis	
Refractive Index at 25°C (USP)	1.4755 - 1.4775
Specific Gravity at 25°C (USP)	1.095 - 1.101
Relative Density (EP)	1.100 - 1.104
Identification A	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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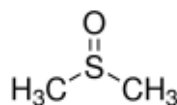
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TEST	Specification
Refractive Index at 20°C (EP)	1.478 - 1.480
Identification B	
Infrared Spectrum (EP)	Compares
Identification C	
Compares with Spectrum of Dimethyl Sulfoxide CRS	
Nickel Chloride Test (EP)	Conforms
Identification D	
Acidity (EP)	≤ 5.0
mL of 0.01 M Sodium Hydroxide	
Water by Karl Fischer (EP)	≤ 0.2 %
Freezing Point (EP)	≥ 18.3 °C
UV Absorbance (EP)	Pass
No Absorption Maximum Between 270 nm and 350 nm	
UV Absorbance 275nm (EP)	≤ 0.30
UV Absorbance 285nm (EP)	≤ 0.20
UV Absorbance 295nm (EP)	≤ 0.20
Related Substances (EP)	Pass
unspecified impurities: for each impurity,	
maximum 0.10% total impurities: maximum 0.15%	
Meets USP Testing Specifications	Current USP Specifications
Meets EP Testing Specifications	Current EP Specification
Recommended Retest Period	-----
2 Years	

Specification: PRD.12.ZQ5.10000004539

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