

Dimethyl Sulfoxide  
Multi-Compendial

(methyl sulfoxide)



Material No.: 9033-33  
Batch No.: 0000226069  
Manufactured Date: 2017/06/07  
Retest Date: 2022/06/06  
Release Date: 2019/03/29  
Revision No: 1

## Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets U.S.P Requirements,  
GMP Manufactured Product

Test	Specification	Result
USP – Identification A	Passes Test	PT
USP – Identification B	Passes Test	PT
USP – Specific Gravity at 25°/25°C	1.095 – 1.101	1.099
USP – Refractive Index, n <sup>25</sup> <sub>D</sub>	1.4755 – 1.4775	1.4772
USP – Acidity	Passes Test	PT
USP – Water (H <sub>2</sub> O)	<= 0.1 %	< 0.1
USP – Absorbance – 275 nm	<= 0.20	0.08
USP – Absorbance – 270–350nm (smooth with no maxima)	Passes Test	PT
USP – Absorbance Ratio – 285 nm/275 nm	<= 0.65	0.32
USP – Absorbance Ratio – 295 nm/275 nm	<= 0.45	0.19
USP – Nonvolatile Residue	<= 0.01 %	< 0.01
USP – Related Compounds	<= 0.1 %	< 0.1
USP – Assay ((CH <sub>3</sub> ) <sub>2</sub> SO)	>= 99.9 %	100.0
EP – Identification	Passes Test	PT
EP – Acidity	Passes Test	PT
EP – Relative Density	1.100 – 1.104	1.102
EP – Refractive Index	1.478 – 1.480	1.479
EP – Freezing Point	>= 18.3 °C	18.5
EP – Absorbance – 275 nm	<= 0.30	0.08
EP – Absorbance – 285 nm	<= 0.20	0.03
EP – Absorbance – 295 nm	<= 0.20	0.02
EP – Absorbance – 270–350nm (smooth with no	Passes Test	PT

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
maxima)		
EP - Related Substances	<= 0.1 %	< 0.1
EP - Water (H <sub>2</sub> O)	<= 0.2 %	< 0.1
Water (H <sub>2</sub> O), For Information Only	%	0.01

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Metallic Residues: No metal catalysts or metal reagents, as defined by EMA Guideline EMEA/CHMP/SWP/4446/2000 , are used in the production of this material.

Country of Origin: US  
Packaging Site: Paris Mfg Ctr & DC  
Manufacturer: P0005041  
Manufacturer source batch: USP170530



Jamie Ethier  
Vice President Global Quality