



1617 N. 93<sup>rd</sup> East Ave.  
Tulsa, OK 74115  
P: 918.836.7135  
www.DMSO.com

## **DMSO Industrial Grade**

A TECHNICAL GRADE FOR BASIC APPLICATIONS

DMSO Industrial Grade is a technical grade of Dimethyl Sulfoxide, suitable for use in common industrial formulations (such as solvent cleaning applications and paint stripping). This nontoxic polar solvent plays an important role in the synthesis and processing of polymers, including polyacrylonitrile (PAN) and polyethersulfone (PES).

*Choose Valhoma DMSO Industrial Grade for:*

### **General Solvent Cleaning Applications.**

DMSO is an effective solvent for removing organic materials from equipment lines and manufacturing equipment. DMSO exhibits high solubility for many polymers and may aid in polymer processing and clean-up.

### **Safe and Environmentally Friendly Formulated Products.**

An important example is the use of DMSO as a nontoxic alternative to more hazardous solvents in paint stripping formulations.

### **Polymer Applications.**

DMSO Industrial Grade is used as a reaction solvent in manufacturing a variety of polymers. Additional downstream applications include as a processing solvent in operations such as casting polymeric membranes and wet-spinning synthetic fibers.

### **Agriculture.**

Use as a reaction solvent in Active Ingredient synthesis and as a solvent in the formulation for delivery of the active.

***DMSO is not for human use.***

<u>Representative Test Methods</u>	<u>Values</u>
Assay, (% Min. by GLC)	99.7%
Water (% Max. by KF)	0.10
Color, (Max. APHA)	10
Titration Acid, (Max. meq / g)	0.001

*This illustration does not constitute the specification. Specifications are available upon request.*



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### **DMSO Industrial Grade at a Glance**

#### **Physical Properties Data**

Density, at 25°C (77°F)	1.0955 g/cm <sup>3</sup>
Boiling Point (atmos. pressure)	189°C
Viscosity @ 20°C (68°F)	2.14 cP
Refractive Index $n_D^{20}$	1.4785
Surface Tension @ 20°C (68°F)	43 dynes/cm
Specific Heat @ 25°C (77°F)	0.45 cal /g/°C
Heat of Vaporization @ 25°C (77°F)	162 cal/g
Electrical Conductivity @ 20°C (68°F)	$3 \times 10^{-8}$ /ohm/cm
Dielectric Constant @ 20°C (68°F)	48
Dipole Moment	4.3 D
Vapor Pressure @ 25°C (77°F)	0.6 mm Hg

#### **Solubility**

Soluble in water, light alcohols and diethyl ether.

#### **Regulatory**

CAS: 67-68-5, EINECS: 200-664-3

HMIS and NFPA Hazard Ratings: Health-1, Flammability-1, Chemical Reactivity-0

#### **Packaging**

Compatible containers/lids: 1 Gallon, 16 fl. oz., 1 lb., 8 oz., 4 oz. and 3 oz.