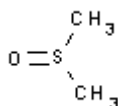


**PRODUCT CODE: 361954****Dimethyl Sulfoxide for UV, IR, HPLC, GPC**

---

C<sub>2</sub>H<sub>6</sub>OS

M.= 78,13

CAS [67-68-5]

EINECS 200-664-3

TARIC 2930 90 98 99

**SYNONYMS:** DMSO, Methylsulphoxide, Sulphinylbismethane**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • Hygroscopic • D 20/4 1,1014 • M.P.: 18,4 °C • B.P.: 189 °C • n<sub>20/D</sub> : 1,477 • Ign. T.:270 °C • Vap. press. (20 °C) 0,6 hPa • Viscosity 20 °C 2 mPa.s • D. M. 20 °C 3,9 Debye • Dielec. constant 20 °C 4,7 •**BIBLIOGRAPHY:** Merck Index **13**, 3.285 Sax **DUD800** • Safety **2**, **2440 C** • Kühn-Birett **D 36** • Ullmann **(5.)9**, 243 • Beilstein **1**, **289 II**, **277 III**, **1217 IV**, **1277** • BRN 506008 • Fieser **1296 2157 3119 4192 5263 6225 7133 8198 9189 10166 11214 12213 13124** • ACS **XI** • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • Royal Decree **I811** •**HAZARDOUS:** RTECS: PV 6210000 • LD<sub>50</sub> oral rat 14.500 mg/kg • LD<sub>50</sub> skn rat 40.000 mg/kg • LD<sub>50</sub> ipr mus 2.500 mg/kg**WEIGHT/VOLUME INFORMATION:** 1l~1,103 kg 1kg~0,907 l**OBSERVATIONS:** Storage away from direct light. •**SPECIFICATIONS:**

Minimum assay (G.C.)

99,9%

**Maximum limit of impurities**

APHA colour	10
Acidity	0,0005 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,001 %
Water (H <sub>2</sub> O)	0,05 %
Suitability for IR spectrometry:	passes test
Fluorescence at 365 nm (as quinine)	7 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 265 (Cut off) nm	<sup>3</sup> 10 %
Transmittance at 270 nm	<sup>3</sup> 30 %
Transmittance at 280 nm	<sup>3</sup> 63 %
Transmittance at 290 nm	<sup>3</sup> 70 %
Transmittance at 310 nm	<sup>3</sup> 80 %
Transmittance at 330 nm	<sup>3</sup> 94 %
Transmittance at 350-450 nm	<sup>3</sup> 98 %
Data of interest in HPLC:	
Rohrschneider Polarity	7,2
Eluotropic value E° (Al <sub>2</sub> O <sub>3</sub> )	0,75
Sol. H <sub>2</sub> O in solv. at 20°C	miscible

**For critical jobs, purge with nitrogen.**

**Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.**