

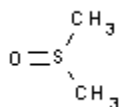


**PRODUCT CODE: 131954**

**Dimethyl Sulfoxide (Reag. USP, Ph. Eur.) for analysis, ACS**

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



M.= 78,13

CAS [67-68-5]

EINECS 200-664-3

TARIC 2930 90 95 99

**SYNONYMS:** DMSO, Methylsulphoxide, Sulphinylbismethane

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water and ethanol 96% Practically insoluble in acetone, alcohol, benzene, chloroform and ether. • Hygroscopic • D 20/4 1,1014 • M.P.: 18,4 °C • B.P.: 189 °C • n<sub>20</sub>/D : 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.**2025** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • Royal Decree I811 •

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**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

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**WEIGHT/VOLUME INFORMATION:** 1l~1,103 kg 1kg~0,907 l

**OBSERVATIONS:** Storage away from direct light. •

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**SPECIFICATIONS:**

Minimum assay (G.C.)

99,9%

Identity :

Identity

IR passes test

Freezing point

>= 18,0°C

**Maximum limit of impurities**

|                                      |             |
|--------------------------------------|-------------|
| Acidity                              | 0,001 meq/g |
| Insoluble matter in H <sub>2</sub> O | passes test |
| Non-volatile matter                  | 0,001 %     |
| Methanol (G.C.)                      | 0,05%       |
| Dimethyl Sulfone (G.C.)              | 0,1%        |
| Water (H <sub>2</sub> O)             | 0,1 %       |

**Metals by ICP [in mg/Kg (ppm)]**

|    |      |
|----|------|
| Ag | 0,05 |
| Al | 0,5  |
| As | 0,05 |
| Au | 0,05 |
| B  | 0,02 |
| Ba | 0,1  |
| Be | 0,02 |
| Bi | 0,05 |
| Ca | 0,5  |
| Cd | 0,05 |
| Co | 0,02 |
| Cr | 0,02 |
| Cu | 0,02 |
| Fe | 0,1  |
| Ga | 0,02 |
| Ge | 0,05 |
| Hg | 0,05 |
| In | 0,05 |
| K  | 0,1  |
| Li | 0,05 |
| Mg | 0,1  |
| Mn | 0,02 |
| Mo | 0,02 |
| Na | 0,5  |
| Ni | 0,02 |
| P  | 0,2  |
| Pb | 0,1  |
| Pt | 0,02 |
| S  | 0,2  |
| Sb | 0,02 |
| Si | 0,2  |
| Sn | 0,1  |
| Sr | 0,2  |
| Ti | 0,02 |
| Tl | 0,02 |
| V  | 0,02 |
| Zn | 0,1  |
| Zr | 0,02 |