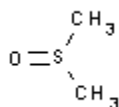


PRODUCT CODE: 131954**Dimethyl Sulfoxide (Reag. USP, Ph. Eur.) for analysis, ACS**C₂H₆OS

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 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 • n₂₀/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.**2021** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) • Royal Decree **I811** •

HAZARDOUS: RTECS: PV 6210000 • LD50 oral rat 14.500 mg/kg • LD50 skn rat 40.000 mg/kg • LD50 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%
Identity :	
Identity	IR passes test
Freezing point	>= 18,0°C

Maximum limit of impurities

Acidity	0,001 meq/g
Insoluble matter in H2O	passes test
Non-volatile matter	0,001 %
Methanol (G.C.)	0,05%
Dimethyl Sulfone (G.C.)	0,1%
Water (H2O)	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