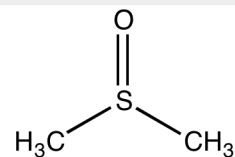


Identification

C₂H₆OS
 M = 78,13 g/mol
 CAS [67-68-5]
 EC number: 200-664-3
 Taric code: 2930 90 99


Synonyms

DMSO, Sulfinyl bis(methane), Methylsulfoxide, Methylsulfinylmethane

Applications

analytical chemistry, solvents, synthesis of organic products.

Specifications

assay (G.C.).....	min. 99,9 %	Suitable for residual solvents
refractive index n ₂₀ /D.....	1,477 - 1,480	analysis according to guideline
water (K.F.).....	max. 0,04 %	CPMP/ICH/283/95, Ph Eur
		and USP.
Packed under inert gas		Class 1 according to ICH
		less than 0,5 ppm.
		benzene (G.C.)..... absence of peak
		Class 2 and class 3 solvents
		dichloromethane..... 0,6 mg/l
		tert-Butyl methyl ether..... 1 mg/l
		acetone 1 mg/l
		methanol 1 mg/l
		tetrahydrofuran..... 0,7 mg/l
		n-Hexane..... 0,3 mg/l
		ethyl acetate..... 1 mg/l
		ethanol..... 1 mg/l
		cyclohexane..... 1 mg/l
		acetonitrile..... 0,4 mg/l
		2-propanol..... 1 mg/l
		isopropyl acetate..... 1 mg/l
		n-Propanol..... 1 mg/l
		n-Heptane..... 1 mg/l
		methylcyclohexane..... 1 mg/l
		1,4-Dioxane..... 0,4 mg/l
		toluene..... 0,9 mg/l
		pyridine..... 1 mg/l
		n-Butanol..... 1 mg/l
		butyl acetate..... 1 mg/l
		ethylbenzene..... 1 mg/l
		p-Xylene..... 1 mg/l
		m-Xylene..... 1 mg/l
		o-Xylene..... 1 mg/l

Physical data

- Density: 1,10 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 18,5 °C
- Boiling point: (33 hPa) 85 - 87 °C
- Flash point: 95 °C
- Ignition temperature: 300 - 302 °C
- Vapour pressure: (20 °C) 0,6 hPa
- Refraction index: (n₂₀ °C/D) 1,48
- Viscosity: (25 °C) 1,98 mPas
- Saturation conc.: (20 °C) 8,0 g/m³
- Expl. limit (upper): 63,0 Vol%
- Expl. limit (lower): 1,8 Vol%
- Hygroscopic

Safety - GHS**Signal Word:** Warning**Hazard Statements:**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see on this label).

P362: Take off contaminated clothing and wash before reuse.

P332+P313: If skin irritation occurs: Get medical advice / attention.

P337+P313: If eye irritation persists: Get medical advice / attention.

Toxicological data

• LD 50 (oral, rat): 14500 mg/kg

• WGK: 1

• Poison class CH (Swiss): F