

TRIETHYLENE GLYCOL DIMETHYL ETHER

1570

October 2004

CAS No: 112-49-2
RTECS No: XF0665000
EC No: 603-176-00-2

2,5,8,11-Tetraoxadodecane
Triglyme
1,2-bis(2-Methoxyethoxy)ethane
TEGDME
 $C_8H_{18}O_4 / CH_3(OCH_2CH_2)_3OCH_3$
Molecular mass: 178.2

| TYPES OF HAZARD/ EXPOSURE | ACUTE HAZARDS/SYMPTOMS | PREVENTION | FIRST AID/FIRE FIGHTING |
|--|---|--|---|
| FIRE | Combustible. | NO open flames. | Water spray, foam, powder, carbon dioxide. |
| EXPLOSION | | | |
| EXPOSURE | See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE. | AVOID ALL CONTACT! | |
| Inhalation | | Ventilation, local exhaust, or breathing protection. | Fresh air, rest. |
| Skin | | Protective gloves. Protective clothing. | Remove contaminated clothes. Rinse skin with plenty of water or shower. |
| Eyes | | Safety spectacles. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| Ingestion | | Do not eat, drink, or smoke during work. | Rinse mouth. Give plenty of water to drink. |
| SPILLAGE DISPOSAL | | PACKAGING & LABELLING | |
| Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Personal protection: filter respirator for organic gases and vapours. | | T Symbol R: 61-62-19 S: 53-45 | |
| EMERGENCY RESPONSE | | SAFE STORAGE | |
| NFPA Code: H1; F1; R0 | | Separated from strong oxidants. | |

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance can presumably form explosive peroxides. Reacts violently with strong oxidants.

Occupational exposure limits

TLV not established.

MAK not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20/C.

Effects of long-term or repeated exposure

Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 216/C

Melting point: -45/C

Relative density (water = 1): 0.99

Solubility in water: miscible

Vapour pressure, kPa at 20/C: 0.12

Relative vapour density (air = 1): 6.14

Flash point: 111/C o.c.

Octanol/water partition coefficient as log Pow: -0.48

ENVIRONMENTAL DATA

NOTES

Check for peroxides prior to distillation; eliminate if found.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information