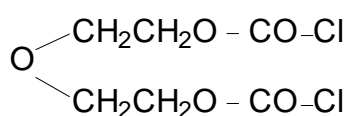


DATA SHEET Nr 2500 D

DIETHYLENE GLYCOL BIS CHLOROFORMATE



Molecular formula: $C_6H_8O_5Cl_2$

Molecular weight: 231

CAS number: 106-75-2

EC number: 203-430-9

Synonym

-

Aspect

Clear liquid with a pungent odour.

Physical properties

Density d_{420} : 1.39

Melting point: 5.5°C

Solubility:

- Soluble in the main common organic solvents (acetone, toluene, methylene chloride, THF, dioxane, dichloro-ethane, chlorobenzene, ethyl acetate).
- Insoluble in water.

Chemical properties

- Reacts by hydrolysis, yielding hydrochloric acid, carbon dioxide and ethylene glycol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

Uses

- Organic synthesis intermediate.

DIETHYLENE GLYCOL BIS CHLOROFORMATE

SPECIFICATION

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid		
Color	≤ 50 APHA	Colorimetry	C-210
Purity	≥ 98.0 %	Gas chromatography	GC-244
Phosgene	≤ 0.1 %	Iodometry	I-230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A-220
Monochlorhydrin	≤ 0.1 %	Gas chromatography	GC-244
Dymer	≤ 1.5 %	Gas chromatography	GC-244

Packaging

Polyethylene lined metal drum containing 25 / 250 kg;

Handling precautions

- Physico-chemical hazard
Flash point (tag closed cup): 200°C
- Health hazards
LD 50 (ingestion rat): 813 mg/kg =
= harmful.
Irritating action on skin, eyes and mucous membranes.
Corrosive.
- Recommended
When handling this product, wear mask, gloves, goggles and protective clothes.
Wash contaminated surfaces immediately with plenty of water.
If eyes are contaminated, wash immediately clean water for at least 15 minutes.

In case of inhalation take person to fresh air.
Call a physician.

- Neutralization
Neutralize with caustic solution.

Storage

Stored in its closed original drum in a covered dry, cool and well-ventilated warehouse, the product is stable.

However, in case of prolonged storage (more than 6 months), it is recommended to check again the product before use, by measuring typical parameters of its quality such as colour, hydrochloric acid levels.

Transport

Refer to MSDS.

Nr 2500 D — June, 2016

