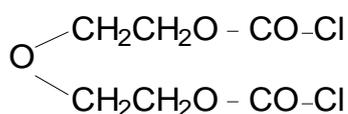


DATA SHEET Nr 2500 F

**DIETHYLENE GLYCOL BISCHLOROFORMATE**  
**DEGCF**



Molecular formula:	C <sub>6</sub> H <sub>8</sub> O <sub>5</sub> Cl <sub>2</sub>
Molecular weight:	231.0
CAS number:	106-75-2
EC number:	203-430-9

**SYNONYM**

Oxydiethylene bischloroformate.

**APPEARANCE**

Clear liquid with pungent odour.

**PHYSICAL PROPERTIES**

Density (20 °C): 1.39 g/cm<sup>3</sup>

Melting point: 6 – 7 °C

Solubility:

Soluble in the main common organic solvents (acetone, toluene, methylene chloride, THF, dioxane, dichloroethane, chlorobenzene, ethyl acetate).

**CHEMICAL PROPERTIES**

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

**USES**

- Organic synthesis intermediate.

## DIETHYLENE GLYCOL BISCHLOROFORMATE

### DEGCF

#### SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
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
Dimer	≤ 1.5 %	Gas chromatography	GC – 244

#### PACKAGING

Polyethylene lined metal drum containing 25 or 250 kg.

Polyethylene drum containing 250 kg.

#### HANDLING PRECAUTIONS

- Physicochemical hazard:  
Flash point (closed cup): 182 °C
- Health hazards:  
LD 50 (oral, rat): 1650 mg/kg

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 with clean water for at least 15 minutes.  
In case of inhalation take person to fresh air.  
Call a physician.

- Neutralization  
Neutralize with an alkaline solution.

#### STORAGE

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

However, in case of prolonged storage it is recommended to check again the product before use by measuring typical parameters of its quality such as color, purity and hydrogen chloride levels.

#### TRANSPORTATION

Refer to MSDS.

Nr 2500 F

August 2018



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