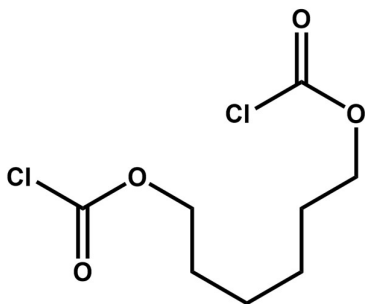


DATA SHEET Nr 2200 D

1,6-HEXANEDIOL BIS(CHLOROFORMATE)

1,6HDBCf



Molecular formula:	C ₈ H ₁₂ Cl ₂ O ₄
Molecular weight:	243.08
CAS number:	2916-20-3
EC number:	220-840-3

SYNONYM

1,6-Hexamethylene bis(chloroformate)
Carbonochloridic acid, C,C'-1,6-hexanediyl ester

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.28 g/cm³

Boiling point: 278 °C/101 kPa

Solubility:

Soluble in usual organic solvents (acetone, toluene, chloroform, THF).

CHEMICAL PROPERTIES

- Reacts with alcohols yielding hexamethylene bis(carbonates).
- Reacts with amines yielding hexamethylene bis(carbamates).
- Reacts by hydrolysis yielding hydrochloric acid and 1,6-hexanediol.

USES

- Organic synthesis intermediate.
- Feedstock for the syntheses of polycarbonates and polyurethanes

1,6-HEXANEDIOL BISCHLOROFORMATE 1,6HDBC

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 30 APHA	Colorimetry	C – 210
Purity	≥ 99.0 %	Gas chromatography	GC – 018
Phosgene	≤ 0.01 %	Iodometry	I – 230

PACKAGING

Polyethylene lined metal drum containing 225 kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flashpoint (closed cup): 108°C
- Health hazard:
LD 50 (oral, rat): 5000 mg/kg
Irritating to the eyes, skin and mucous membranes.
- Recommended:
Avoid contact with metallic compounds, which catalyze its decomposition.

When handling, the use of approved safety eyewear, chemically resistant gloves and laboratory - appropriate clothing is strongly recommended.

- Neutralization:
Neutralize by reaction with cold alkaline solutions.

STORAGE

The product is stable when stored in its original closed drum, protected from direct sunshine, in a covered, dry, cool and well-ventilated area.

However, in case of prolonged storage it is recommended to check again the product before use by measuring typical quality parameters.

TRANSPORTATION

Refer to MSDS.