

DATA SHEET Nr 2200 D

**1,6-HEXANEDIOL BISCHLOROFORMATE**  
**1,6HDBCf**



Molecular formula:	C <sub>8</sub> H <sub>12</sub> Cl <sub>2</sub> O <sub>4</sub>
Molecular weight:	243.2
CAS number:	2916-20-3
EC number:	220-840-3

**SYNONYM**

Hexamethylene bischloroformate

**APPEARANCE**

Clear liquid with pungent odor.

**PHYSICAL PROPERTIES**

Density (20 °C): 1.28 g/cm<sup>3</sup>

Boiling point: 278 °C/101 kPa

Solubility:

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

**CHEMICAL PROPERTIES**

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

**USES**

- Organic synthesis intermediate.

## 1,6-HEXANEDIOL BISCHLOROFORMATE

### 1,6HDBCF

#### 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): 110°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 this product wear gloves, goggles, mask and protective clothes.  
If eyes are contaminated wash immediately with clean water for at least 15 minutes. In case of

inhalation of concentrated vapors take person to fresh air. In both cases consult a physician.

- Neutralization:  
Neutralize by reaction with an alkaline solution.

#### STORAGE

Product is stable if it is stored in its original closed drum, protected from direct sunshine, in a covered, dry, cool and well-ventilated warehouse.

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.