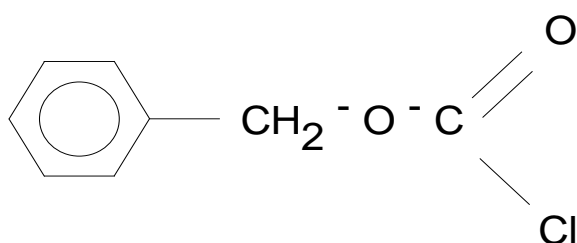


BENZYL CHLOROFORMATE

BZCF



Molecular formula: $C_8H_7ClO_2$

Molecular weight: 170.5

CAS number: 501-53-1

EC number: 207-925-0

SYNONYMS

Z-Chloride;
Carbobenzoxy chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C) : 1.20 g/cm³

Boiling point: starts to decompose at 50 °C

Melting point: -20 °C

Solubility:

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

CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding hydrochloric acid and benzyl alcohol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

USES

- Organic synthesis intermediate.
- Synthesis intermediate for pharmaceuticals.

BENZYL CHLOROFORMATE

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SPECIFICATION

Parameter	Guaranteed Value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C-210
Purity	≥ 98,0 %	Gas chromatography	GC-167
Phosgene	≤ 0,1 %	Iodometry	I-230
Hydrogen chloride	≤ 0,1 %	Acidimetry	A-220
Benzyl alcohol	≤ 0,1 %	Gas chromatography	GC-167
Benzyl chloride	≤ 2,0 %	Gas chromatography	GC-167
Iron	≤ 1 ppm	Atomic absorption spectrometry	AAS-810

PACKAGING

Polyethylene lined metal drum containing 200 kg.

Polyethylene lined metal drum containing 50 kg.

HANDLING PRECAUTIONS

- Physical-chemical hazard:
Flash point (closed cup): 125 °C
- Health hazard :
LD 50 (oral, rat): 2300 mg/kg
Irritating to the eyes, skin and mucous embranes.
Corrosive.
- Recommended:
Avoid contact with metallic compounds which catalyze its decomposition.
When handling this product wear gloves, goggles, mask and protective clothes.
If eyes or skin 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 a basic solution.

STORAGE

Keep in its original, closed and labelled container.
The place of storage has to be properly ventilated and cleanable.

**Store in dry place, storage temperature must be:
< 0°C**

In contact with metallic compounds it decomposes yielding hydrogen chloride and carbon dioxide and the inner pressure of the drum increases, therefore it has to be opened with care.

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, hydrogen chloride and benzyl alcohol levels.

TRANSPORT

Refrigerated transport.
Refer to MSDS.

Nr 2430 L March, 2019.

