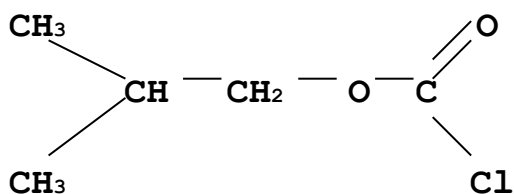


DATA SHEET Nr 2300 F

ISOBUTYL CHLOROFORMATE

IBCF



Molecular formula:	C ₅ H ₉ ClO ₂
Molecular weight:	136.5
CAS number:	543-27-1
EC number:	208-840-1

SYNONYM

Carbonochloridic acid, isobutyl ester.

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.05 g/cm³

Boiling point: 128 °C / 101 kPa

Solubility:

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

CHEMICAL PROPERTIES

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

USES

- Organic synthesis intermediate.

ISOBUTYL CHLOROFORMATE

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SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 30 APHA	Colorimetry	C – 210
Purity	≥ 99.0 %	Gas chromatography	GC – 243
Phosgene	≤ 0.1 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A – 220
Isobutanol	≤ 0.2 %	Gas chromatography	GC – 243
Di-isobutyl carbonate	≤ 0.5 %	Gas chromatography	GC – 243

PACKAGING

Polyethylene lined metal drum containing 200 kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 36 °C
- Health hazards:
LD 50 (oral, rat): 1400 mg/kg
- Recommended:
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 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, hydrogen chloride and isobutanol levels.

TRANSPORTATION

Refer to MSDS.

Nr 2300 F

August 2018