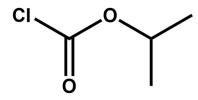


# DATA SHEET Nr 2140 G ISOPROPYL CHLOROFORMATE IPCF



# SYNONYMS

Carbonochloridic acid, 1-methylethyl ester 1-Methylethyl chloroformate 2-Propyl chloroformate Isopropyl chlorocarbonate

# APPEARANCE

Clear liquid with pungent odor.

# **PHYSICAL PROPERTIES**

Density (20 °C):

 $1.08 \text{ g/cm}^3$ 

Decomp:

50 °C

Solubility:

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

Molecular formula: C<sub>4</sub>H<sub>7</sub>ClO<sub>2</sub> Molecular weight: 122.5 CAS number: 108-23-6 EC number: 203-593-2

### **CHEMICAL PROPERTIES**

- Reacts by hydrolysis to yield hydrochloric acid isopropanol and carbon dioxide
- Reacts with amines to yield isopropyl carbamates.
- Reacts with to yield isopropyl carbonates.

# USES

• Used as a building block to deliver isopropyl carbamate or carbonate moieties in a range of pharmacological syntheses



# ISOPROPYL CHLOROFORMATE IPCF

# **SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 10 APHA	Colorimetry	C-210
Purity	≥ 99.0 %	Gas chromatography	GC-242
Phosgene	≤ 0.1 %	Iodometry	I-230
Hydrogen chloride	≤ 0.02 %	Acidimetry	A – 220
Isopropanol	≤ 0.3 %	Gas chromatography	GC - 242
Di-isopropyl carbonate	≤ 0.3 %	Gas chromatography	GC-242
Iron	≤ 1 ppm	Atomic absorption spectrometry	AAS - 810
Isopropyl chloride	≤ 0.5 %	Gas chromatography	GC - 242

# PACKAGING

Polyethylene lined metal drum containing 200 kg.

### HANDLING PRECAUTIONS

- Physicochemical hazard: Flash point (closed cup): 16 °C
- Health hazards: LD 50 (oral, rat): 545 mg/kg

Corrosive; irritating to skin, mucous membranes and eyes

• Recommended:

Avoid contact with metallic compounds, especially iron, as these catalyze decomposition.

Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling

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In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician,

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

• Neutralization: Neutralize by reaction with cold alkaline solutions.

#### STORAGE

The product is stable if stored in its closed original drum in a covered, dry, cool and well-ventilated area. **Recommended storage temp:** < 0 °C

However, in case of prolonged storage it is recommended to re-analyze for isopropanol and HCl.

#### TRANSPORTATION

Refrigerated transport required

Refer to MSDS



