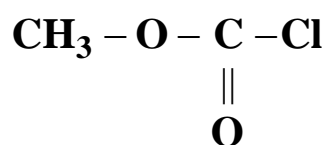


## METHYL CHLOROFORMATE



Molecular formula:	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>
Molecular weight:	94.5
CAS number:	79-22-1
EC number:	201-187-3

### SYNONYM

Carbonochloridic acid, methyl ester. Methyl chlorocarbonate.

### ASPECT

Colorless liquid, lachrymator, with a pungent odor.

### PHYSICAL PROPERTIES

Density d<sub>4</sub>20: 1.22

Boiling point: 71°C at 10<sup>5</sup> Pa

Solubility:

- Soluble in usual organic solvents.
- Insoluble in water.

### CHEMICAL PROPERTIES

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

### USES

- Organic synthesis intermediate.

## METHYL CHLOROFORMATE

### SPECIFICATIONS

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid		
Color	≤ 30 APHA	Colorimetric	C-210
Methyl chloroformate	≥ 99.0 %	Gas chromatography	GC-240
Phosgene	≤ 0,2 %	Iodometry	I-230
Hydrogen chloride	≤ 0,1 %	Acidimetric	A-220
Methanol	≤ 0,1 %	Gas chromatography	GC-240
Dimethyl carbonate	≤ 0,7 %	Gas chromatography	GC-240
Ethyl chloroformate	≤ 0,05 %	Gas chromatography	GC-240

### PACKAGING

PE lined metal drum containing 200 kg.

In bulk.

### HANDLING PRECAUTIONS

- Physical-chemical hazard  
Flash point (tag closed cup): 18°C flammable
- Health hazards  
LD 50 (ingestion rat): 60 mg/kg = toxic.  
Irritating on skin mucous membrane and eyes.  
Corrosive.
- Recommended  
Avoid contact with metallic compounds which catalyze the decomposition. Wear gloves, goggles, mask and protective clothes.  
If eyes are contaminated, wash immediately with clean water for at least 15 minutes and consult a physician. If concentrated vapors are

inhaled, carry person into fresh air and consult a physician.

- Neutralization  
Neutralize by reaction with a basic solution.

### STORAGE

Stored in its closed original drum, in a covered cool, dry, 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 qualitative evolution such as the color, hydrochloric acid and methanol levels.

### TRANSPORT

refer to MSDS

Nr 2010 J —May, 2016



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