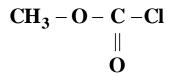


# DATA SHEET Nr 2010 K METHYL CHLOROFORMATE MCF



Molecular formula:  $C_2H_3ClO_2$ 

Molecular weight: 94.5

CAS number: 79-22-1

EC number: 201-187-3

#### **SYNONYMS**

Carbonochloridic acid, methyl ester.

Methyl chlorocarbonate.

#### **APPEARANCE**

Clear liquid with pungent odor.

# PHYSICAL PROPERTIES

Density (20 °C): 1.22 g/cm<sup>3</sup>

Boiling point: 71°C / 101 kPa

Solubility:

Soluble in usual organic solvents.

#### **CHEMICAL PROPERTIES**

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

#### **USES**

• Organic synthesis intermediate.



# **METHYL CHLOROFORMATE**

## **MCF**

#### **SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 30 APHA	Colorimetry	C – 210
Purity	≥ 99.0 %	Gas chromatography	GC - 241
Phosgene	≤ 0.2 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A – 220
Methanol	≤ 0.1 %	Gas chromatography	GC – 241
Dimethyl carbonate	≤ 0.7 %	Gas chromatography	GC - 241
Ethyl chloroformate	≤ 0.05 %	Gas chromatography	GC - 241

#### **PACKAGING**

Polyethylene lined metal drum containing 200 kg. In bulk.

#### HANDLING PRECAUTIONS

• Physicochemical hazard: Flash point (closed cup):

18°C

• Health hazards:

LD 50 (oral, rat): 60 mg/kg Irritating on skin, mucous membrane and eyes. Corrosive.

• Recommended:

Avoid contact with metallic compounds which catalyze its 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 an alkaline solution.

## **STORAGE**

Stored in its closed original drum, protected from direct sunshine, 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 quality such as color, hydrogen chloride and methanol levels.

# **TRANSPORTATION**

Refer to MSDS.

Nr 2010 K August 2018



