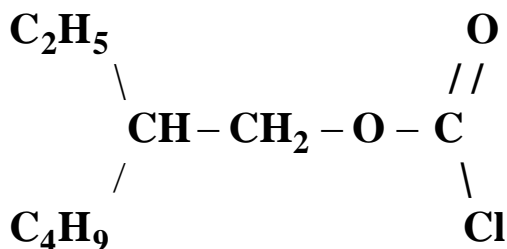


## 2-ETHYLHEXYL CHLOROFORMATE



Molecular formula:  $\text{C}_9\text{H}_{17}\text{ClO}_2$

Molecular weight: 192.7

CAS number: 24468-13-1

EC number: 246-278-9

### OTHER NAMES

Carbonochloridic acid, 2-ethylhexyl ester,  
2-ethylhexyl chlorocarbonate.

### ASPECT

Colorless liquid with a pungent odor.

### PHYSICAL PROPERTIES

Density  $d_{420}$ : 0.9914

Vapour pressure:

at 153 °C 2.63  $10^4$  Pa

at 50 °C 1.45  $10^2$  Pa

Melting point: - 55 °C

Solubility:

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

### CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding hydrochloric acid, carbon dioxide and 2-ethylhexanol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

### USES

- Organic synthesis intermediate.
- Synthesis intermediate for polymerization initiators.

## 2-ETHYLHEXYL CHLOROFORMATE

### Specification

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid		
Color	≤ 20 APHA	Colorimetric	C-210
Purity	≥ 99.3 %	Gas chromatography	GC-270
Phosgene	≤ 0.01 %	Iodometry	I-230
Hydrogen chloride	≤ 0.02 %	Acidimetric	A-220
Iron	≤ 0.5 ppm	Colorimetric	C-810
2-ethylhexyl alcohol	≤ 0.1 %	Gas chromatography	GC-270
di 2-ethylhexyl carbonate	≤ 0.3 %	Gas chromatography	GC-270
CCl <sub>4</sub>	≤ 0.01 %	Gas chromatography	GC-270

### PACKAGING

Metal drum with polyethylene liner containing 180 kg. In bulk.

### HANDLING PRECAUTIONS

- Physical-chemical hazard  
Flash point (tag closed cup): 186.8 °F (86 °C)
- Health hazards  
LD 50 (ingestion rat): 2400 mg/kg  
Slightly 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 call 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 quality such as the color, alcohol and hydrochloric acid levels.

### TRANSPORT

refer to MSDS

Nr 2110 E — May, 2016

