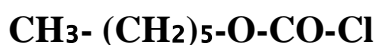


Data Sheet Nr 2350 G

## n-HEXYL CHLOROFORMATE



Molecular formula:	C <sub>7</sub> H <sub>13</sub> ClO <sub>2</sub>
Molecular weight:	164,6
CAS number:	6092-54-2
EC number:	228-036-4

### SYNONYMS

Carbonic acid n-hexyl ester  
n-hexil-chlorocarbonate

### ASPECT

Colorless liquid with characteristic odor.

### PHYSICAL PROPERTIES

Density d <sub>4</sub> 20:	0.99
Boiling point	60 °C/ 7 Hgmm
Flashpoint (tag closed cup):	86 °C

#### Solubility:

- Soluble in usual organic solvents (acetone, chloroform, toluene, THF).
- Not soluble in water.

### CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding HCl, carbon dioxide and n-hexanol.
- Reacts with alcohols, yielding carbonates.
- Reacts with amines yielding carbamates.

### USES

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

## n-HEXYL CHLOROFORMATE

### SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Aspect	Clear liquid		
Color	≤ 50 APHA	Colorimetric	C-210
Assay	≥ 98.0 %	Acidimetry	A-245
n-Hexyl chloroformate	≥ 98.0 %	Gas chromatography	GC-168
2-Ethyl-buthyl chloroformate	≤ 0,15 %	Gas chromatography	GC-168
2-Heptyl chloroformate	≤ 0,15 %	Gas chromatography	GC-168
1-Octyl chloroformate	≤ 0,10 %	Gas chromatography	GC-168
Undecane	≤ 0,15 %	Gas chromatography	GC-168
3-Octyl alcohol	≤ 0,15 %	Gas chromatography	GC-168
1-Chloro hexane	≤ 0,15 %	Gas chromatography	GC-168
3-Chloro hexane	≤ 0,40 %	Gas chromatography	GC-168
di-Hexyl carbonate	≤ 0,70 %	Gas chromatography	GC-168
Methyl chloroformate	≤ 0,05 %	Gas chromatography	GC-168
Any unspecified impurities	≤ 0.10 %	Gas chromatography	GC-168
Summa impurities	≤ 1,0 %	Gas chromatography	GC-168
Refractive index	1,420–1,426	Refractometry	RI-110

### PACKAGING

PE lined metal drum 190 kg.

PE lined metal drum 50 kg.

### HANDLING PRECAUTIONS

- **Health hazard**  
LD 50 (rat, ing.): 2400 mg/kg  
Irritating to the eyes, skins and mucous membrane.  
Corrosive.
- **Recommended**  
Avoid contact with metallic compounds which catalyze the decomposition.  
When handling this product, wear gloves, goggles, mask and protective clothes.  
If eyes are contaminated, wash immediately with clean water for at least 15 minutes consult a physician. In case of inhalation of concentrated

vapor, take person to fresh air. In both cases, consult a physician.

- **Neutralization.**

Neutralize by reaction with basic solution..

### STORAGE

Stored in its closed original drum, 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 such as the colour, hydrochloric and alcohol.

### TRANSPORT

Refer to MSDS.

Nr 2350 G — May, 2016

