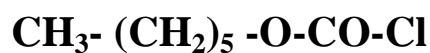


DATA SHEET Nr 2350 H

n-HEXYL CHLOROFORMATE
NHEXCF



Molecular formula:	C ₇ H ₁₃ ClO ₂
Molecular weight:	164.6
CAS number:	6092-54-2
EC number:	228-036-4

SYNONYMS

Chlorocarbonic acid, n-hexyl ester;
n-Hexyl chlorocarbonate

APPEARANCE

Clear liquid with characteristic odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.01 g/cm³

Boiling point 60 °C/ 1 kPa

Solubility:

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

CHEMICAL PROPERTIES

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

USES

- Organic synthesis intermediate.

n-HEXYL CHLOROFORMATE**NHEXCF****SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C – 210
Assay	≥ 98.0 %	Acidimetry	A – 245
Purity	≥ 98.0 %	Gas chromatography	GC – 168
2-Ethylbutyl chloroformate	≤ 0.10 %	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-Octanol	≤ 0.15 %	Gas chromatography	GC – 168
1-Chlorohexane	≤ 0.15 %	Gas chromatography	GC – 168
3-Chlorohexane	≤ 0.15 %	Gas chromatography	GC – 168
Dihexyl carbonate	≤ 0.20 %	Gas chromatography	GC – 168
Any unspecified impurity	≤ 0.10 %	Gas chromatography	GC – 168
Sum of the impurities	≤ 1.0 %	Gas chromatography	GC – 168

PACKAGING

Polyethylene lined metal drum containing 190 kg.
Polyethylene lined metal drum containing 50 kg.

HANDLING PRECAUTIONS

- **Physicochemical hazard:**
Flash point (closed cup): 69 °C
- **Health hazard:**
LC 50 (inhalation, rat.): 1.17 mg/1/4h
Irritating to the eyes, skin and mucous membranes.
Corrosive.
- **Recommended:**
Avoid contact with metallic compounds which catalyze its 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. In case

of inhalation of concentrated vapors take person to fresh air. In both cases 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, dry, cool and well-ventilated warehouse the product is stable. It must be stored below 25 °C.

However, in case of prolonged storage it is recommended to check again the product before use by measuring the specified quality parameters.

TRANSPORTATION

Refer to MSDS.