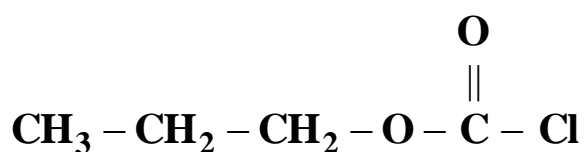


DATA SHEET Nr 2050 G

n-PROPYL CHLOROFORMATE
NPCF



Molecular formula:	C ₄ H ₇ ClO ₂
Molecular weight:	122.5
CAS number:	109-61-5
EC number:	203-687-7

SYNONYM

Carbonochloridic acid, n-propyl ester.

APPEARANCE

Clear liquid with pungent odour.

PHYSICAL PROPERTIES

Density (20 °C): 1.09 g/cm³

Boiling point: 112 °C/101 kPa

Solubility:

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

CHEMICAL PROPERTIES

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

USES

- Organic synthesis intermediate.

n-PROPYL CHLOROFORMATE

NPCF

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 30 APHA	Colorimetry	C – 210
Purity	≥ 99.0 %	Gas chromatography	GC – 246
Phosgene	≤ 0.1 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A – 220
n-Propanol	≤ 0.1 %	Gas chromatography	GC – 246
Dipropyl carbonate	≤ 1.0 %	Gas chromatography	GC – 246

PACKAGING

Polyethylene lined metal drum containing 200 kg.
In bulk.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 26 °C
- Health hazards:
LD 50 (oral, rat): 1210 mg/kg
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. 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 n-propanol levels.

TRANSPORTATION

Refer to MSDS

Nr 2050 G

August 2018



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