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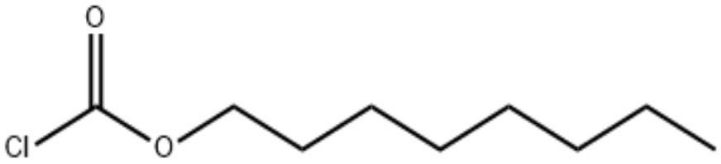
DATA SHEET Nr. 2100 A

n-OCTYL CHLOROFORMATE

NOCF



Molecular formula:	$C_9H_{17}ClO_2$
Molecular weight:	192.7
CAS number:	7452-59-7
EC number:	231-224-9

SYNONYM

Carbonochloridic acid, 1-octyl ester.

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C):	0.98 g/cm^3
Boiling point:	90 °C /15 mbar

Solubility:

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

CHEMICAL PROPERTIES

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

USES

- Organic synthesis intermediate.

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SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C – 210
Purity	≥ 98.0 %	Gas chromatography	GC – 982
Phosgene	≤ 0.1 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A – 220
n-Octanol	≤ 0.2 %	Gas chromatography	GC – 982
Di-n-octyl carbonate	≤ 0.3 %	Gas chromatography	GC – 982

PACKAGING

Polyethylene lined metal drum containing 180 kg.

Polyethylene drums containing 200 kg.

In bulk.

HANDLING PRECAUTIONS1

- Physicochemical hazard:
  Flash point (closed cup): 75 °C
- Health hazards:
  Irritating action to the eyes, skin and mucous membranes.
  Corrosive.
- Recommended:
  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

Keep in its original, closed and labelled container. The place of storage has to be properly ventilated and cleanable.

In case of prolonged storage, it is recommended to check again the product before use by measuring typical parameters of its quality such as colour, hydrogen chloride and n-octanol levels.

TRANSPORTATION

Refer to MSDS.

503/0113(7)-465(7)

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