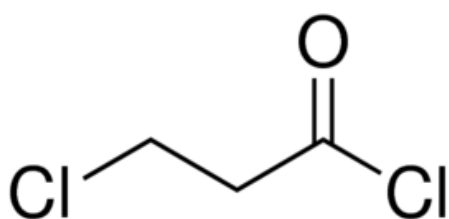


3-CHLOROPROPIONYL CHLORIDE

3CPCL



Molecular formula:	C ₃ H ₄ Cl ₂ O
Molecular weight:	127
CAS number:	625-36-5
EC number:	210-890-4

SYNONYMS

β-chloropropionyl chloride

APPEARANCE

Clear or yellowish liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20°C): 1,33 g/cm³

Boiling point: Decomposes before boiling

Melting point: - 32 °C

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

CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding hydrochloric acid and 3-chloropropionic acid.
- Reacts with amines yielding amides.
- Reacts with alcohols yielding esters.
- Reacts with mercaptans yielding thioesters.

USES

- Organic synthesis intermediate.
- Synthesis intermediate for pharmaceuticals.

3-CHLOROPROPIONYL CHLORIDE

3CPCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Color	Colorless or yellowish	Visual	-
Appearance	Clear liquid	Visual	-
Purity	≥ 98,0 %	Gas chromatography	GC – 434
Acryloyl chloride	≤ 0,50 %	Gas chromatography	GC – 434
Largest individual unspecified impurity	≤ 0,5 %	Gas chromatography	GC – 434
Total organic impurities	≤ 2,0 %	Gas chromatography	GC – 434

PACKAGING

Polyethylene lined metal drum containing 30, 60 or 250 kg.

Polyethylene drum containing 250 kg.

HANDLING PRECAUTIONS

- Physical-chemical hazard:
Flash point (closed cup): 70 °C
- Health hazard :
LD 50 (oral, rat): 1000 – 1470 mg/kg
Corrosive, causes burns.
Irritating to the eyes, skin and mucous membranes. Harmful if swallowed. Causes severe burns and eye damage. Fatal in case of inhalation.
- Recommended:
When handling this product wear gloves, goggles, mask and protective clothes.

If eyes or skin 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 a caustic solution.

STORAGE

Keep in its original, closed container.

In case of prolonged storage, it is recommended to check again the product before use by measuring typical parameters of its quality.

TRANSPORT

Refer to MSDS.

Nr 1840 A

February 2021



503/0113(7)-465(7)