



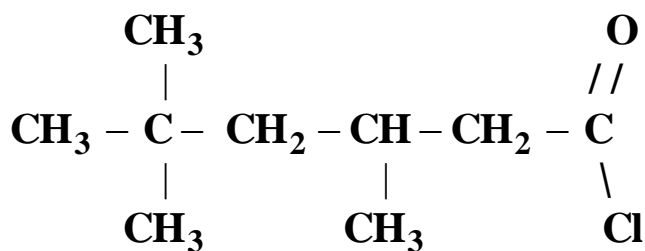
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Phosgene Chemistry • Custom Chemicals

DATA SHEET Nr 1075 D

(EXTRA quality)

# ISONONANOYL CHLORIDE



Molecular formula: C<sub>9</sub>H<sub>17</sub>ClO

Molecular weight: 176.7

CAS number: 36727-29-4

EU number: 2531684

## other name

Hexanoyl chloride, 3,5,5-trimethyl-

## aspect

Colorless liquid with a pungent odor.

## physical properties

Density d<sub>4</sub>20: 0.93

Boiling point: 235 °C at 10<sup>5</sup> Pa

Solubility:

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

## chemical properties

- Reacts by hydrolysis, yielding hydrochloric acid and isononanoic acid.
- Reacts with amines yielding amides.
- Reacts with alcohols yielding esters.

## uses

- Intermediate for organic synthesis.
- Synthesis intermediate for polymerization initiators.

# ISONONANOYL CHLORIDE — Framochem

## (EXTRA quality)

### Specifications

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid		
Color	≤ 30 apha	Colorimetry	C-210
Total chlorides in C <sub>9</sub>	≥ 98.0 %	Gas chromatography	GC-420
Isononanoyl chloride	≥ 96.0 %	Gas chromatography	GC-420
Alpha ramified chlorides	≤ 2.0 %	Gas chromatography	GC-420
Phosgene	≤ 0.05 %	Iodometry	I-230
Hydrogen chloride	≤ 0.1 %	Acidimetry	A-220
Iron	≤ 3 ppm	Colorimetry	GC-810
Isononanoic acid	≤ 1.0 %	Gas chromatography	GC-420
Anhydride	≤ 1.0 %	Gas chromatography	GC-420
CCl <sub>4</sub>	≤ 0.03 %	Gas chromatography	GC-420
2-ethyl-hexanoyl chloride	≤ 0.15 %	Gas chromatography	GC-420

### packaging

Metal drum with polyethylene liner containing 180 kg.

Metal drum with polyethylene liner containing 50 kg.

In bulk.

Polyethylene drum containing 195 kg.

### handling precautions

- Physico-chemical hazard  
Flash point (tag closed cup): 80 °C
- Health hazards  
LD 50 (ingestion rat): 930 mg/kg = harmful.  
Irritating on skin, mucous membrane and eyes.  
Corrosive.
- Recommended  
Avoid contact with alkaline products. Wear gloves, goggles, mask and protective clothes.  
If eyes are contaminated, wash immediately

with clean water for at least 15 minutes.

If concentrated vapors are inhaled, carry person into fresh air.

In both cases, call a physician.

- Neutralization  
Neutralize by reaction with a 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 of its quality such as the color, hydrochloric and isononanoic acids and anhydride levels.

### transport

refer to MSDS

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