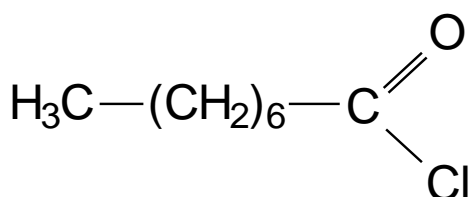


DATA SHEET Nr 1100 D

OCTANOYL-CHLORIDE

Molecular formula: $\text{C}_8\text{H}_{15}\text{ClO}$

Molecular weight: 162.5

CAS number 111-64-8

EINECS number 2038916

Other name

n - octanoyl chloride

Aspect

Colorless liquid with a pungent odor.

Physical propertiesDensity d_{420} : 0.95Melting point: $-63\text{ }^\circ\text{C}$ Boiling point: $89\text{ }^\circ\text{C}$ Solubility: soluble in usual organic solvents
(acetone, chloroform, toluene, THF)**Chemical properties**

- reacts by hidrolisis, yielding hydrochloric acid and octanoic acid
- reacts with amines yielding amides
- reacts with alcohols yielding esters

Uses

- Intermediate for organic synthesis (specially for agrochemicals)

OCTANOYL-CHLORIDE — Framochem

Specifications

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid	Visual	-
Color	≤ 50 apha	Colorimetry	C-210
Assay	≥ 98.0 %	Gas chromatography	GC-420
Chloride in C ₆	≤ 0.5 %	Gas chromatography	GC-420
Chloride in C ₁₀	≤ 0.5 %	Gas chromatography	GC-420
Phosgene	≤ 0.1 %	Iodometry	I-230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A-220
Iron	≤ 10 ppm	Colorimetry	C-810
Octanoic acid	≤ 0.5 %	Gas chromatography	GC-420
Other chlorides (each)	≤ 0.1 %	Gas chromatography	GC-420
Anhydride	≤ 1 %	Gas chromatography	GC-420

Packaging

- Metal drum with polyethylene liner containing 180 kg.
- Polyethylene drum containing 195 kg

- In bulk

Handling precautions

- Physico-chemical hazard
Flash point (tag closed cup): 82 °C
- Health hazards
LD 50 (ingestion rat): 1780 mg/kg = harmful
Corrosive: causes burns
Irritating on skin, mucuous membranes and eyes.
- Recommendations
Wear gloves, glasses, mask and protective clothes.
If eyes are contaminated, wash immediately with clean water for at least 15 minutes.
If concentrated vapors are inhaled, carry the person into fresh air out of the contaminated area.
In both cases, call a physician.
Neutralize by reaction with 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 (color, anhydride, hydroclorid and octanoic acid level).

The migration of the product may cause the tarnishment of polyethylene drum, without any consequence on the mechanic resistance of the drum and the quality of the product.

Transport

refer to MSDS

Nr 1100 D — November, 2014