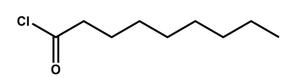


DATA SHEET Nr 1100 F

OCTANOYL CHLORIDE NOCL



SYNONYMS

Capryloyl chloride Octanoic acid chloride Octanoic chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 0.95 g/cm^3

Melting point: -63 °C

Boiling point: 196 °C/101 kPa

Solubility:

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

Molecular formula: C₈H₁₅ClO Molecular weight: 162.7 CAS number: 111-64-8 EC number: 203-81-6

CHEMICAL PROPERTIES

- Reacts by hydrolysis to yield hydrochloric acid and octanoic acid.
- Reacts with amines to yield octanyl amides.
- Reacts with alcohols to yield octanoates.

USES

- Used in the production of polymerization initiators.
- Useful for augmenting the aqueous solubility of functionalized compounds, imparting hydrophobicity or surfactant qualities
- Has been used to functionalize acene-type compounds for use in organic semiconductors and thin film transistors



OCTANOYL CHLORIDE NOCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C-210
Purity	≥ 99.0 %	Gas chromatography	GC - 422
C ₆ chlorides	≤ 0.5 %	Gas chromatography	GC - 422
C ₁₀ chlorides	≤ 0.5 %	Gas chromatography	GC - 422
Phosgene	≤ 0.1 %	Iodometry	I-230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A – 220
Octanoic acid	≤ 0.1 %	Gas chromatography	GC - 422
Other chlorides (each)	≤ 0.1 %	Gas chromatography	GC - 422
Octanoic anhydride	≤ 1.0 %	Gas chromatography	GC - 422

PACKAGING

Polyethylene lined metal drum containing 180 kg. Polyethylene drum containing 195 kg. In bulk.

HANDLING PRECAUTIONS

- Physicochemical hazard:
 Flash point (closed cup): 82 °C
- Recommended:
 Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling

In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician,

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

Neutralization:
 Neutralize by reaction with cold alkaline solutions.

STORAGE

The product is stable if stored in its closed original drum in a covered, dry, cool and well-ventilated area.

However, in case of prolonged storage it is recommended to re-analyze for color, hydrogen chloride, octanoic acid and anhydride.

TRANSPORTATION

Refer to MSDS.

Nr 1100 F August 2018



