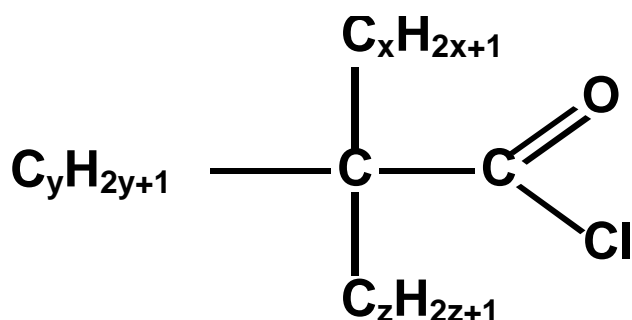


DATA SHEET Nr 1720 H

NEODECANOYL CHLORIDE

NEODCL



Molecular formula:	$C_{10}H_{19}ClO$
Molecular weight:	190.7
CAS number:	40292-82-8
EC number:	254-875-0

$$x+y+z=8$$
$$(x,y) \leq 2$$

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 0.95 g/cm³

Boiling point: 210 °C/101 kPa

Solubility:

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

CHEMICAL PROPERTIES

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

USES

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

NEODECANOYL CHLORIDE

NEODCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 10 APHA	Colorimetry	C – 210
Assay	≥ 99.0 %	Argentometry	P – 608
Phosgene	≤ 0.05 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.05 %	Acidimetry	A – 220
Neodecanoic acid	≤ 1.0 %	Gas chromatography	GC – 460

PACKAGING

Polyethylene lined metal drum containing 180 kg.

Polyethylene drum containing 195 kg.

In bulk.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 86 °C
- Health hazards:
LD 50 (oral, rat): 2180 mg/kg
Irritating on skin, mucous membrane and eyes.
Corrosive.
- Recommended:
Wear gloves, goggles, mask and protective clothes. If eyes are contaminated wash immediately with clean water for at least 15 minutes.
- Neutralization:
Neutralize by reaction with an alkaline 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 color, hydrogen chloride and neodecanoic acid levels.

TRANSPORTATION

Refer to MSDS.

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August 2018



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