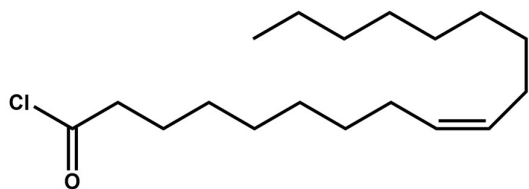


DATA SHEET Nr 1900 F  
**CRUDE OLEOYL CHLORIDE**  
**OILCL**



Molecular formula:  $C_{18}H_{33}ClO$   
Molecular weight (average): 301  
CAS number: 112-77-6  
EC number: 204-005-0

**SYNONYMS**

*cis*-9-Octadecenoyl chloride  
9-(*Z*)-Octadecen-1-oyl chloride  
Oleic acid chloride

**APPEARANCE**

Clear brown liquid

**PHYSICAL PROPERTIES**

Density (20 °C): 0.9 g/cm<sup>3</sup>

Boiling point: 175 - 180 °C/1 kPa

Solubility:

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

**CHEMICAL PROPERTIES**

- Reacts by hydrolysis to yield hydrochloric acid and oleic acid.
- Reacts with amines to yield long-chain amides.
- Reacts with alcohols to yield long-chain esters.

**USES**

- Useful for augmenting the aqueous solubility of functionalized compounds, imparting hydrophobicity or surfactant qualities
- Important component of green, bio-derived industrial oils
- Starting material for fatty acid esters

## CRUDE OLEOYL CHLORIDE OILCL

### SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	>15 Gardner	Colorimetry	C – 310
Assay	≥ 98.0 %	Argentometry	P – 608
Phosgene	≤ 0.1 %	Iodometry	I – 230

### PACKAGING

Polyethylene lined metal drum containing 160 kg.  
In bulk.

### HANDLING PRECAUTIONS

- Physicochemical hazard:  
Flash point (closed cup): >110 °C
- Health hazards:  
LD 50 (oral, rat): >2000 mg/kg  
Corrosive; irritating to skin, mucous membranes and eyes
- 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 and hydrolysis products

### TRANSPORTATION

Refer to MSDS.

Nr 1900 F

August 2018



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