DATA SHEET Nr 1900 F

CRUDE OLEOYL CHLORIDE

OILCL

Molecular formula: $C_{18}H_{33}ClO$

Molecular weight (average): according to the raw material

CAS number: 112-77-6

EC number: 204-005-0

SYNONYM

9-Octadecenoyl chloride

APPEARANCE

Brown liquid at room temperature.

PHYSICAL PROPERTIES

Density (20°C): 0.9 g/cm³

Boiling range: 175 – 180 °C / 1kPa

Solubility:
Soluble in usual organic solvents (acetone, toluene, dichloromethane, chlorobenzene, THF).

CHEMICAL PROPERTIES

- Reacts by hydrolysis yielding hydrochloric acid and oleic acid.
- Reacts with alcohols yielding esters.
- Reacts with mercaptane yielding thioesters.
- Reacts with amines yielding amides.

USES

- Intermediate for organic synthesis.
CRUDE OLEOYL CHLORIDE
OILCL

SPECIFICATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Guaranteed value</th>
<th>Method</th>
<th>Operating procedure</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
<td>Visual</td>
<td></td>
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<tr>
<td>Color</td>
<td>&gt;15 Gardner</td>
<td>Colorimetry</td>
<td>C – 310</td>
</tr>
<tr>
<td>Assay</td>
<td>≥ 98.0 %</td>
<td>Argentometry</td>
<td>P – 608</td>
</tr>
<tr>
<td>Phosgene</td>
<td>≤ 0.1 %</td>
<td>Iodometry</td>
<td>I – 230</td>
</tr>
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</table>

PACKAGING
Polyethylene lined metal drum containing 160 kg. In bulk.

HANDLING PRECAUTION
- Physicochemical hazard:
  flashpoint (closed cup): >110 °C
- Health hazard:
  LD 50 (oral, rat): > 2000 mg/kg.
  Irritating to eyes and mucous membrane.
  Corrosive.
- Recommendation:
  Avoid contact with caustic.
  Wear gloves, gogles, mask and proper protective clothes.
  In case of eye contamination wash with water at least 15 minutes then call for a physician.
  In case of its vapor inhalation take the injured person to fresh air and call for a physician.
- Neutralization:
  With alkaline solutions.

STORAGE
The product is stable in its original, closed packaging stored in a dry, cool and well-ventilated area.
In case of prolonged storage it’s recommended to check the typical parameters (assay, hydrogen chloride) before use.

TRANSPORTATION
Refer to MSDS.

Nr 1900 F        August 2018