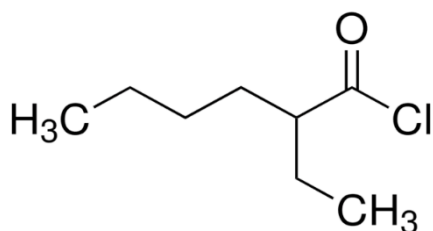


DATA SHEET Nr. 1150 A

## 2-ETHYLHEXANOYL CHLORIDE 2EHCL



|                    |                                    |
|--------------------|------------------------------------|
| Molecular formula: | C <sub>8</sub> H <sub>15</sub> ClO |
| Molecular weight:  | 162.5                              |
| CAS number:        | 760-67-8                           |
| EINECS number:     | 212-081-1                          |

### APPEARANCE

Colorless liquid with a pungent odor

### PHYSICAL PROPERTIES

|  |                                     |
|--|-------------------------------------|
| Density d <sub>4</sub> 20:   | 0.94                                |
| Boiling point:   | 20 °C at 200 Pa<br>116 °C at 104 Pa |
| Melting point:   | -75 °C                              |
| Solubility:  |                                     |
| Soluble in usual organic solvents (acetone, chloroform, toluene, THF). |                                     |

### CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding hydrochloric acid and 2-ethyl hexanoic acid.
- Reacts with amines yielding amides.
- Reacts with alcohols yielding esters.

### USES

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

## 2-ETHYLHEXANOYL CHLORIDE 2EHCL

### SPECIFICATION

| Parameter             | Guaranteed value | Method             | Operating procedure |
|-----------------------|------------------|--------------------|---------------------|
| Aspect                | Clear liquid     |                    |                     |
| Color                 | ≤ 50 APHA        | Colorimetry        | C-210               |
| Assay                 | ≥ 98.0 %         | Gas chromatography | GC-422              |
| Phosgene              | ≤ 0.1 %          | Iodometry          | I-230               |
| Hydrogen chloride     | ≤ 0.1 %          | Acidimetry         | A-220               |
| Iron                  | ≤ 1 ppm          | Colorimetry        | C-810               |
| 2-Ethyl hexanoic acid | ≤ 1 %            | Gas chromatography | GC-422              |
| Anhydride             | ≤ 1 %            | Gas chromatography | GC-422              |

### PACKAGING

- Polyethylene lined metal drum (composite drum) containing 180 kg.
- In bulk

### HANDLING PRECAUTIONS

- Physico-chemical hazard  
Flash point (tag closed cup): 74 °C
- Health hazards  
LD 50 (ingestion rat): 1420 mg/kg = harmful.  
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. If concentrated vapors are inhaled, carry the person into fresh air. In both cases, call a physician.
- Neutralization  
Neutralize by reaction with a 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 of its quality such as the colour, hydrochloric and 2-ethyl hexanoic acids and anhydride levels.

### TRANSPORTATION

Refer to MSDS.