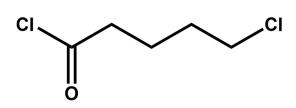


# DATA SHEET Nr 1930 E

# 5-CHLOROVALEROYL CHLORIDE 5 CVCL



Molecular formula:  $C_5H_8Cl_2O$ 

Molecular weight: 155.0

CAS number: 1575-61-7

EC number: 216-403-1

# **SYNONYM**

5-Chloropentanoyl chloride

# **APPEARANCE**

Clear liquid with pungent odor.

### PHYSICAL PROPERTIES

Density (20 °C): 1.21 g/cm<sup>3</sup> Boiling point: 83 °C/2 kPa

Solubility:

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

### **CHEMICAL PROPERTIES**

- Hydrolyzes to yield hydrochloric acid and 5-chlorovaleric acid.
- Reacts with amines to yield 5-chloropentyl amides.
- Reacts with alcohols to yield 5-chloropentyl esters.
- Reacts with mercaptans to yield 5-chloropentyl thioesters.

# **USES**

- Precursor used in a wide variety of pharmaceutical syntheses.
- Frequently employed for the syntheses of lactams or compounds containing similar units.



# 5-CHLOROVALEROYL CHLORIDE 5CVCL

### **SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Purity	≥ 99.0 %	Gas chromatography	GC - 546
Other impurities (each)	≤ 0.5%	Gas chromatography	GC – 546

#### **PACKAGING**

Polyethylene lined metal drum containing 50 kg.

### HANDLING PRECAUTIONS

Physicochemical hazard:
Flash point (closed cup): 105 °C

• Health hazards:

LD 50 (oral, rat): 500 – 2000 mg/kg

Corrosive: causes burns

Irritating on 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 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 quality parameters (color, hydrogen chloride, 5-chlorovaleric acid and anhydride levels).

# TRANSPORTATION

Refer to MSDS.

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