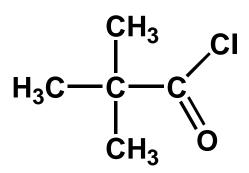


## DATA SHEET Nr. 1980 A

# PIVALOYL CHLORIDE PICL



Molecular formula: C<sub>5</sub>H<sub>9</sub>ClO

Molecular weight: 120.58

CAS number: 3282-30-2

EINECS number: 221-921-6

### **OTHER NAMES**

2,2-Dimethyl- Propanoyl Chloride,

Trimethylacetyl chloride.

#### **ASPECT**

Colorless liquid, lacrimator with a pungent odor.

#### PHYSICAL PROPERTIES

Density d<sub>4</sub>20 : 0.98

Vapor pressure at 105°C: 760 mmHg

#### SOLUBILITY

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

## **CHEMICAL PROPERTIES**

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

## **USES**

• Intermediate for organic synthesis.



## PIVALOYL CHLORIDE PICL

#### **SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Aspect	Clear liquid	Visual control	
Colour	≤ 50 APHA	Colorimetry	C-210
Assay	≥ 99.0 %	Gas chromatography	GC-420
Phosgene	≤ 0.1 %	Iodometry	I-230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A-220
Iron	≤ 1 ppm	Colorimetry	C-810
Pivalic acid	≤ 0.1 %	Gas chromatography	GC-420
Anhydride	≤ 0.2 %	Gas chromatography	GC-420

#### **PACKAGING**

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

#### HANDLING PRECAUTIONS

• Physico-chemical hazard

Flash point (tag closed cup): 15,5 °C

Health hazards

LD 50 (ingestion rat): 1180 mg/kg = harmful.

Recommended

Wear gloves, glasses, mask and protective clothes. If eyes are contaminated, wash immediately with clean water for at least 15 minutes and consult a physician. If concentrated vapors are inhaled, carry person into fresh air and 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 pivalic acids and anhydride levels.

#### **TRANSPORTATION**

Refer to MSDS.

Nr. 1980 A November 2024



