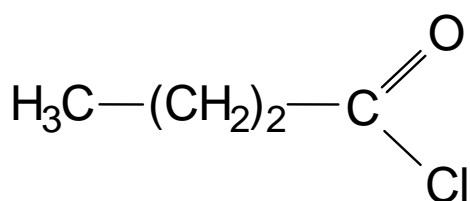


DATA SHEET Nr 1020 B

BUTYRYL-CHLORIDE



Molecular formula: $\text{C}_4\text{H}_7\text{ClO}$

Molecular weight: 106,55

CAS number 141-75-3

EU number 205-498-5

Aspect

Colorless liquid with a pungent odor.

Physical properties

Density d_{420} : 1,03

Melting point: -189°C

Boiling point: $101-105^\circ\text{C}/100\text{ kPa}$

Solubility: soluble in usual organic solvents (acetone, chloroform, toluene, THF)

Chemical properties

- reacts by hidrolisis, yielding hydrochloric acid and butyric acid
- reacts with amines yielding amides
- reacts with alcohols yielding esters
- reacts with mercaptanes yielding esters.

Uses

- Intermediate for organic synthesis (specially for pharmaceuticals)

BUTYRYL CHLORIDE — Framochem

Specifications

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid	Visual	
Color	≤ 20 apha	Colorimetry	C - 210
Assay	≥ 98.0 %	Gas chromatography	GC- 410
Phosgene	≤ 0.1 %	Iodometry	I - 230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A -220
Iron	≤ 50 ppm	Colorimetry	C - 810

Packaging

- Polyethylene drum 200 kg

Handling precautions

- Physico-chemical hazard

Flash point (tag closed cup): 18 °C
Flammable.

- Health hazards

LD 50 (derm,rabbit): 2000 mg/kg = harmful
Corrosive: causes burns
Irritating on skin, mucuous membranes and eyes.

- Recommendations

Wear gloves, glasses, 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 out of the contaminated area.

In both cases, call a physician.

Neutralize by reaction with 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 (color, anhydride, hydroclorid and butyric acid level).

TRANSPORT

refer to MSDS

Nr 1020 B —February, 2015