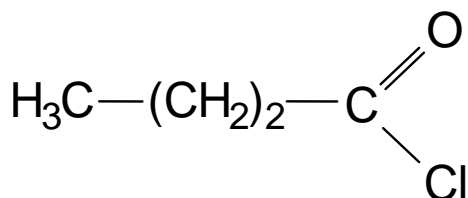


DATA SHEET Nr 1020 D

BUTYRYL CHLORIDE

BUCL



Molecular formula:	C ₄ H ₇ ClO
Molecular weight:	106.5
CAS number:	141-75-3
EC number:	205-498-5

SYNONYM

n-Butyryl chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.03 g/cm³

Melting point: - 89 °C

Boiling point: 101 – 103 °C/101 kPa

Flash point: 18 °C

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 (especially for pharmaceuticals).

BUTYRYL CHLORIDE BUCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 20 APHA	Colorimetry	C – 210
Purity	≥ 98.0 %	Gas chromatography	GC – 410
Phosgene	≤ 0.1 %	Iodometry	I – 230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A – 220

PACKAGING

Polyethylene drum containing 200 kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 18 °C
Flammable.
- Health hazards:
LD 50 (dermal, rabbit): 2000 mg/kg
Corrosive: causes burns.
Irritating on skin, mucous membranes and eyes.
- Recommended:
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.
- Neutralization:
Neutralize 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 parameters of its quality (color, hydrogen chloride, butyric acid and anhydride levels).

TRANSPORTATION

Refer to MSDS.

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August 2018