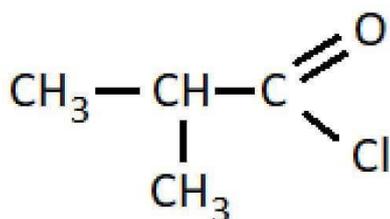


DATA SHEET Nr 1050 B

ISOBUTYRYL CHLORIDE

IBUCL



Molecular formula:	C ₄ H ₇ ClO
Molecular weight:	106.6
CAS number	79-30-1
EU number	201-194-1

SYNONYMS

2-methyl propionyl chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1,01g/cm³

Melting point: - 90°C

Boiling point: 93 °C/101 kPa

Solubility:

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

CHEMICAL PROPERTIES

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

USES

- Intermediate for organic synthesis.

ISOBUTYRYL CHLORIDE IBUCL

SPECIFICATION

Parameter	Guaranteed Value	Method	Operating Procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C-210
Purity	≥ 99.0 %	Gas chromatography	GC-411
Phosgene	≤ 0.1 %	Iodometry	I-230
Hydrochloric acid (HCl)	≤ 0.1 %	Acidimetry	A-220

PACKAGING

- Polyethylene drum 200 kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 1 °C
- Health hazards:
LD 50 (rat.oral): 1000 mg/kg
Irritating to the eyes, skin, mucous membranes.
- Recommended:
When handling this product, wear gloves, goggles, mask and protective clothes.
If eyes or skin are contaminated, wash immediately with clean water for at least 15 minutes. In case of inhalation of concentrated vapors, take person to fresh air. In both cases, consult a physician.
- Neutralization:
Neutralize by reaction with a basic solution.

STORAGE

Stored in its closed original drum, protected from direct sunshine, 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 color, anhydride, hydrogen chlorid and isobutyric acid level.

TRANSPORT

Refer to MSDS.