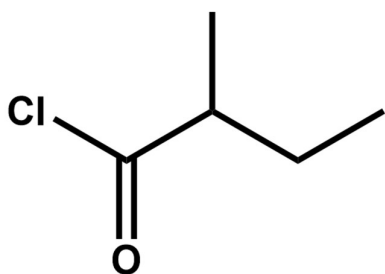


DATA SHEET Nr1635 A

## 2-METHYLBUTYRYL CHLORIDE

### 2MBCL



Molecular formula:	C <sub>5</sub> H <sub>9</sub> ClO
Molecular weight:	120.6
CAS number:	57526-28-0
EC number:	260-787-3

#### SYNONYMS

2-Methylbutanoyl chloride  
 $\alpha$ -Methylbutyryl chloride  
 ( $\pm$ )-2-Methylbutyryl chloride

#### APPEARANCE

Clear liquid with pungent odor.

#### PHYSICAL PROPERTIES

Density: 0.99 g/cm<sup>3</sup>  
 Boiling point: 116 °C / 101 kPa

#### CHEMICAL

Solubility:

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

#### Reactivity:

- Hydrolyzes to 2-methylbutyric acid and HCl.
- Reacts with amines to yield butyramides amides, or alcohols to yield 2-methylbutanoates.

#### USES

- Frequently used as a component of various fragrance compounds.
- Used to deliver the sec-butyl carbonyl moiety to a change of pharmacologically relevant compounds.
- Used as a component in both herbicides and insect repellent materials.

## 2-METHYLBUTYRYL CHLORIDE 2MBCL

### SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 50 APHA	Colorimetry	C – 210
Purity	≥ 98 %	Gas chromatography	GC – 548
Phosgene	≤ 0.1 %	Iodometry	I – 230
Acidity (HCl)	≤ 0.1 %	Acidimetry	A – 220

### PACKAGING

Polyethylene drum containing 190 kg or PE lined metal drum 180 kg.

### HANDLING PRECAUTIONS

- Physicochemical hazard:

Flash point (closed cup): 20 °C

- Health hazards:

No data on the health effects of exposure to this compound have been determined.

- 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 treatment with a cold, alkaline solution

### STORAGE

The product is stable when stored in its closed original packaging, protected from direct sunshine, in a covered, dry, cool and well-ventilated area.

However, in case of prolonged storage re-analyses for color, hydrogen chloride, 2-methylbutanoic acid and anhydride levels are recommended.

### TRANSPORTATION

Refer to MSDS.

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