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METHYL ISOBUTYL KETONE

PRODUCT INFORMATION **M I B K**

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**KUMHO P&B CHEMICALS**

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## GENERAL

MIBK is a clear, colorless volatile liquid with odor and insoluble in water. It is used for a solvent applications as well as an ingredient of chemical reactions. MIBK is produced from acetone and hydrogen with a catalyst.

**IUPAC name :** 4-Methyl-2-pentanone

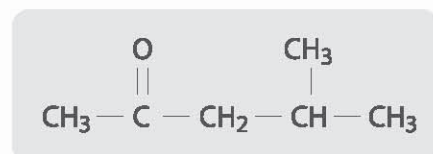
**Synonyms :** Isopropylacetone, Hexone, Isobutyl Methyl Ketone, Isopropylacetone, 4-Methylpentan-2-one

**Molecular formula :** C<sub>6</sub>H<sub>12</sub>O

**CAS number :** 108-10-1

**EINECS/ELINCS number :** 203-550-1

**Package :** 160 kg, 165kg / 200 l steel drum, bulk



## SALES SPECIFICATION

Appearance	Clear liquid
Purity, wt. %	99.5 Min.
Color, Pt/Co	10 Max.
Density @ 20 °C, g/ml	0.799 ~ 0.802
Water content, wt. %	0.1 Max.
Distillation range, °C	
- IBP	114.0 Min.
- DP	117.0 Max.
Acidity as acetic acid, wt%	0.002 Max.



## USES

MIBK is mainly used for solvent of nitrocelluloses, gums, lacquer and recovery of used Uranium. It is also used in the pharmaceutical and electroplate industry. Recently, in addition, MIBK is applied to the semiconductor industry.



## TYPICAL PROPERTIES

Molecular weight	100.16	Vapour density @ 20 °C (air = 1)	3.5
Appearance	Clear liquid	Explosive limits by vol. %	(Lower) 1.4%
Odor	Characteristic		(Upper) 7.5%
Boiling point, °C	117	Specific gravity (H <sub>2</sub> O = 1)	0.8
Melting point, °C	-84	Solubility in water, %	1.91
Flash point, °C	18		
Autoignition temperature, °C	460		
Vapour pressure @ 20°C, mmHg	16		



## HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with incompatible materials.
- Handle only at a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.
- Operators should wear antistatic footwear and clothing.
- Do not inhale the gas prolongedly or repeatedly.
- Avoid contact with heat, sparks, flame or other ignition sources.

### Conditions for safe storage

- Save in a cool, dry and well-ventilated place.
- Follow applicable laws and regulations.
- Avoid direct sunlight.
- Refrain from open fire.
- Keep away from combustible materials or heat sources including static electricity.
- Carry in sealed containers.



## HAZARDS INFORMATION

### Hazards classification information

- Acute toxicity (inhalation: vapor) : Category 3
- Flammable liquids : Category 2
- Specific target organ toxicity (Single exposure) : Category 3 (Respiratory tract irritation)
- ※ NFPA : Health : 1, Flammability : 3, Reactivity : 0

### Human health hazards

- Narcotic at high vapour concentrations.

### Environmental hazards

- Annex 1 substance under review by the EU Commission.

