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PRODUCT INFORMATION **DIISOBUTYL KETONE**  
**D I B K**

*beyond*  
the best

**KUMHO P&B CHEMICALS**

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## General

DIBK is produced by refining heavy end from MIBK production. DIBK is a clear, colorless and high boiling ketone with an odor, which has moderate solvent activity for some polymers. DIBK is a mixture of two isomers: 2,6-dimethyl-4-heptanone and 4,6-dimethyl-2-heptanone in the ratio of 2:1.

**IUPAC name :** 2,6-dimethylheptan-4-one, Di-isobutyl ketone

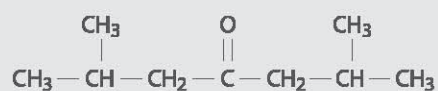
**Molecular formula :** C<sub>9</sub>H<sub>18</sub>O

**CAS number :** 108-83-8

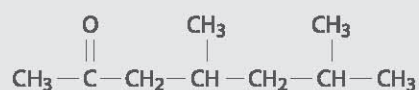
**EINECS/ELINCS number :** 203-620-1

**Package :** 165kg / 200 l steel drum

**DIBK-1(2, 6-Dimethyl-4-heptanone)**



**DIBK-2(4, 6-Dimethyl-2-heptanone)**



## Sales Specification

Appearance	clear, colorless liquid
Purity(DIBK-1 + DIBK-2),wt.%	95.0 Min.
Color, Pt-Co	30 Max.
Water content,wt.%	0.2 Max.
Sp.Gr. @ 20/20°C	0.804 ~ 0.812
Distillation range, °C	
- IBP	163 Min.
- DP	176 Max.



## Uses

DIBK is used for solvent of paints, lacquer(leather industry), nitrocellulose, alkyd, vinyl and epoxy resins. Component for solvents in glues and inks, as well. It is also an extraction agent and aid for re-crystallization of organic components in the pharmaceutical industry.



## Typical Properties

Molecular weight	142.23
Appearance	clear, colorless liquid
Boiling point, °C	168
Melting point, °C	-42
Flash point, °C	49
Autoignition temperature, °C	396
Vapor Pressure @ 20°C, mmHg	1.7

Explosive limits by vol.%	(Lower) 0.8%
	(Upper) 6.2%
Specific gravity (H <sub>2</sub> O = 1)	0.805
Solubility in water @ 24°C, wt%	0.264



## Handling And Storage

### Precautions for safe handling

- 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.
- Avoid prolonged or repeated inhaling of the gas.
- Avoid contact with heat, sparks, flame or other ignition sources.

### Conditions for safe storage

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



## Hazards Information

### Hazards classification information

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

### Human health hazards

- Irritating to respiratory system
- Inhaling the gas may cause drowsiness and dizziness

