

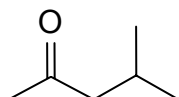


Trade name

METHYL ISOBUTYL KETONE (MIBK)

Chemical Name 4-METHYL-2-PENTANONE

Chemical Structure $(\text{CH}_3)_2\text{CHCH}_2\text{C}(\text{O})\text{CH}_3$



Molecular Formula $\text{C}_6\text{H}_{12}\text{O}$

Molecular Weight 100.2

CAS No. 108-10-1

EINECS No. 203-550-1

TSCA On Inventory

Specification	Item	Unit	Specification	Method
	Appearance		Clear Liquid	
	Color	APHA	10 max.	JIS K 0071
	Specific Gravity (20/20°C)		0.800 - 0.804	JIS K 0061
	Purity	Wt %	99.0 min.	JIS K 0114
	Water Content	Wt %	0.10 max.	JIS K 0068
	Distillation test	I.B.P.	114°C min.	JIS K 0066
		D.R. (114-117°C)	95 ml min.	JIS K 0066
		D.P.	117°C max.	JIS K 0066
	Free Acid (as acetic acid)	%	0.005 max.	JIS K 0070

Physical Property	Item	Unit	
	Boiling Point	°C	116.2
	Specific Gravity (20/20°C)		0.802
	Melting Point	°C	-84.0
	Refractive Index (n_D^{20})		1.393
	Viscosity (25°C)	mPa·s	0.55
	Flash Point (closed cup)	°C	17
	Vapor Density (Air=1)	°C	3.45
	Explosion Limits	Vol%	1.4 – 7.5
	Ignition Point	°C	457
	Solubility (in Water 20°C)	g/100g	1.8
	Specific Heat (20°C)	J/mol·K	191.38
	Surface Tension (20°C)	N/cm	2.36×10^{-4}

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Health Hazards	Acute toxicity data on MIBK			
	Acute Toxicity	LD50(oral)	rat	2.919g/Kg
Emergency and First Aid Procedure	1)Skin Contact	Remove contaminated clothing. Wash the affected area with plenty of clean water and soap. If irritation develops, see a physician.		
	2)Eye Contact	Flash eyes with plenty of clean water for at least 15 minutes while holding eyelids open. If irritation develops, see a physician.		
	3)Inhalation	If a large amount is inhaled, remove individual(s) to fresh air.		
Storage	Tighten the cap of container and store in a cool, dry, well-ventilated, storage area of cabinet.			
Extinguishing Media	Water spray, Dry chemicals, Protein type air foams or carbon dioxide.			
Packing	160Kg	Iron drum		
	20MT	ISO-Container		

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