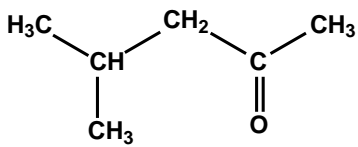


METHYL ISOBUTYL KETONE

- Acronym : MIBK
- Synonym : 4-Methylpentan-2-one
- CAS number : 108-10-1
- EC number : 203-550-1
- REACH registration number : 01-2119473980-30-0000

MAIN PROPERTIES

	Values	Arkema methods	Norms references
Composition	$C_6H_{12}O$: 		
Appearance at 20°C	Clear liquid free from suspended materials	LCR 1116	ASTM D 4176
Color (Pt-Co)	≤ 10	LCR 1002	ASTM D 1209
Purity (% by weight)	≥ 99.6	LCR 2160	GC
Water Content (% by weight)	≤ 0.05	LCR 1007	ASTM D 1364
Acidity as acetic acid (% by weight)	≤ 0.005	LCR 1004	ASTM D 1613
Density at 20°C (g/cm ³)	0.800 - 0.803	LCR 1062	ASTM D 4052
Distillation range (°C)	115.0 - 118.0 (*)	LCR 1123	ASTM D 1078
Refractive index at 20 °C	1.3950 - 1.3970(*)	LCR 1084	ASTMD 1218

The above commercial specifications are guaranteed ; they were established using the test methods which were in force at the plant at the time of despatch of the product, and are in accordance with any applicable revision references. . (*) guaranteed values not reported on analysis certificates.

MAIN APPLICATIONS

- **Paints and Varnishes** : Excellent solvent for various paints (industrial and architectural)
 - **Textile and leather** : solvent and synthesis of additives
 - **Rubber industry** : Antioxydant and anti ozonant in rubber additives for tyres.
 - **Chemical synthesis** : Extraction solvent and solvent for chemical synthesis – pharmaceuticals (antibiotics, aspartame...), agrochemicals (fungicide, germicide...)
 - **Others** : adhesives, inks, separation and purification of metal ions, surfactant, dry cleaning agent, semi conductors.
- For further informations, please contact our technical services.

METHYL ISOBUTYL KETONE

PACKAGING

Methyl isobutyl ketone is supplied in bulk by road tankers, isocontainers, IBC of net weight 750 kg, and in drums of net weight 165 kg .

STORAGE / SAFETY / PRECAUTIONS DURING USE / HANDLING

Please refer to the safety data sheet before any use. Typical shelf life at 25°C is 12 months

PHYSICAL DATA

Molecular weight.....	100.16
Boiling point at 1013 hPa	116 °C
Vapor pressure at 20°C	19 hPa
Relative evaporation rate (n-butyl acetate = 1)	1.8
Freezing point	- 84 °C
Viscosity at 20°C	0.6 mPa.s
Surface tension at 20°C	23.9 mN/m
Latent heat of vaporization	358 kJ/kg
Specific heat (liquid at 20°C)	2.1 kJ/kg/K
Heat of combustion at 25°C.....	34820 kJ/kg
Flash point (closed cup)	16 °C
Autoignition temperature	460 °C
Explosivity limits in air (lower / upper).....	1.4 / 7.5 % (v/v)
Electrical conductivity at 22 °C	0.1 µS/m
Water solubility at 20 °C: - MIBK in water (mass fraction)	1.9 %
- water in MIBK (mass fraction).....	1.9 %
Azeotrope with water : - boiling point at 1013 hPa	87.9 °C
- water content (% w/w)	24.3 %
Hansen solubility parameters at 25°C (α , δ , δ _p , δ _h)	17 / 15.3 / 6.1 / 4.1 MPa ^{1/2}

Updated: January 08, 2020 Revision: 3 File n°: 30.GA.03.2014

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

This grade is suitable for many different applications. Therefore, any use of our grade as finished products intended to be used in specific markets including but not limited to drinking water treatment, cosmetics, pharmaceuticals products, food additives is under the sole responsibility of the Client. The Client must assume all risks and liability in connection herewith.

See MSDS for Health & Safety Considerations