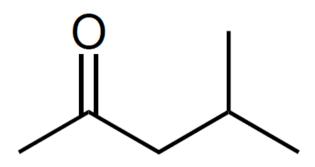


Methyl Isobutyl Ketone (MIBK)



Methyl isobutyl ketone (MIBK) is a clear, colorless organic liquid compound. MIBK is used as a chemical intermediate, a solvent for manufacturing paints, rubbers, pharmaceuticals, other chemicals, and industrial cleaners. It is used in the semiconductor industry. MIBK is very efficient at dissolving resins used in paints, inks, lacquers, and other types of surface coatings.

CAS number

108-10-1

Synonyms

Isobutyl methyl ketone, 4-Methylpentan-2-one, 4-methyl-2-pentanone

Product code

40835

Typical Physical Properties of MIBK

Molecular Weight	100.2 g/mol
Empirical Formula	C ₆ H ₁₂ O
Appearance	Colorless Liquid
Freezing Point	-84.7°C (-120°F)
Flash Point – Closed Cup	14°C (57.2°F)
Boiling Point @ 760mmHg	115°C (239°F)
Autoignition Temperature	460°C
Density @ 20°C	0.802 kg/l 6.69 lb/gal
Vapor Pressure @ 20°C	1.9 kPa
Evaporation Rate (nBuAc = 1) (ether = 1)	1.6 7.2
Solubility @ 20°C (in Water) (Water in)	2.0% 2.4%
Refractive Index @ 25°C	1.396
Kinematic Viscosity @ 25°C	0.59 cP
Surface Tension @ 25°C	23.9 dynes/cm
Lower Flammability in Air	1.3% v/v
Upper Flammability in Air	8.0% v/v
Specific Heat @ 20°C	2.14 J/g/°C
Heat of Vaporization @ normal boiling point	364 J/g
Heat of Combustion @ 25°C	35.0 kJ/g
Conductivity @ 20°C	3*10^7 pS/m
Dielectric Constant @ 20°C	13.1
Note: The properties reported above are tw	nical physical

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the





product from any particular lot will conform exactly to the given values.

Health and safety information

Under current U.S. OSHA's Hazardous Communication program MIBK is classified as a flammable liquid, can cause serious eye irritation, and is harmful if inhaled. Keep the material away from heat sources, hot surfaces, open flames, and sparks. Use only in a well-ventilated area.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.

Storage and Handling

General industry practice is to store MIBK in carbon steel vessels. Storage in properly lined steel or stainless steel to avoid slight discoloration from carbon steel is recommended. Product stored or delivered in unlined carbon steel vessels must be filtered due to technically unavoidable particles.

MIBK should be stored under a nitrogen blanket when available. Avoid contact with air when storing for long periods of time. This product may absorb water if exposed to air.

MIBK should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Use only non-sparking tools. Containers should be grounded before beginning transfer. Electrical equipment should conform to national electric code. Handle empty containers carefully. Flammable combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, MIBK manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. MIBK that is subsequently repackaged, handled and/or delivered

by third parties may have a different shelf life and may require third party shelf life studies. Product past the retest date should be evaluated to confirm that all specifications are within their limits before use.

Additional information

To learn more about Monument Chemical and the products and services we offer please visit our website at www.monumentchemical.com.

Effective Date: 10/29/2021

Revision: 3

Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email SDS@monumentchemical.com. Before using or handling this product, the SDS should be thoroughly reviewed.

Monument Chemical believes the information in this specific product Technical Data Sheet (TDS) is accurate, but makes no representations as to the sufficiency or completeness of the product or information in this TDS and makes no commitment to correct or bring up-to-date any such information and makes no commitment related to the use of the product in combination with other chemicals or as part of any other chemical processes. MONUMENT CHEMICAL MAKES NO WARRANTY TO THE **USER OR RECIPIENT OF ANY PRODUCT FROM MONUMENT** CHEMICAL, OR WITH RESPECT TO THE INFORMATION PROVIDED WITH THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTIBILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR OF NON-INFRINGEMENT OF THIRD PARTY RIGHTS OR PATENTS, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING OR PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

Monument Chemical disclaims liability for any and all claims arising from the use, purchase or receipt of the chemical product, including without limitation, any and all incidental, consequential, indirect, special, or punitive



TECHNICAL PRODUCT INFORMATION

damages arising out of or relating to the product or the information, EVEN IF ARISING OUT OF OR RELATING TO A NEGLIGENT ACT, MISREPRESENTATION, OR OMISSION OF MONUMENT CHEMICAL OR ITS EMPLOYEES. The user is responsible for verifying that the product is suitable for user's particular purposes under applicable laws and regulations and assumes all risks and liabilities arising from its use, transport, purchase, sale or disposal of the product and information provided in this TDS. The products may be covered by one or more United States or foreign patents or patent applications. "Monument Chemical" and the Monument Chemical logo are trademarks of Monument Chemical. All other marks are the property of their respective owners. This TDS will not reduce Monument Chemical's rights or expand Monument Chemical's liabilities under any agreement between the user and Monument Chemical or its affiliates.