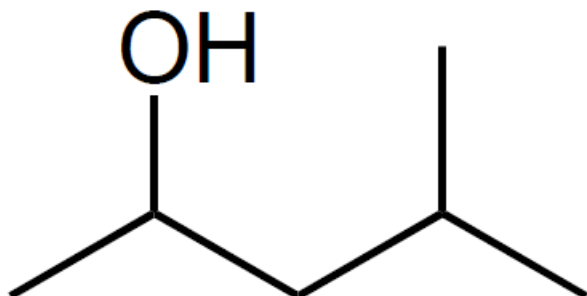


Methyl Isobutyl Carbinol (MIBC)



Methyl Isobutyl Carbinol (MIBC) is a clear, colorless liquid C6 branched alcohol with a mild odor. The principal end uses of MIBC include industrial solvent, coatings, chemical intermediate, and ore flotation.

CAS number

108-11-2

Synonyms

Isobutylmethylmethanol; 2-Methyl-4-pentanol; 4-Methyl-2-amyl alcohol; 1,3-Dimethyl-1-butanol; Methylamyl alcohol

Product code

40788

Typical Physical Properties of MIBC

Molecular Weight	102.2 g/mol
Empirical Formula	C ₆ H ₁₄ O
Appearance	Colorless Liquid
Freezing Point	-90°C (-130°F)
Flash Point – Closed Cup	40.5°C (105°F)
Boiling Point @ 760mmHg	131.7°C (269.1°F)
Autoignition Temperature	305°C
Density @ 20°C	0.81 kg/l 6.76 lb/gal
Vapor Pressure @ 20°C	0.42 kPa
Evaporation Rate (nBuAc = 1)	0.28
Solubility @ 20°C	
(in Water)	1.6% m/m
(Water in)	6.3% m/m
Refractive Index @ 25°C	1.410
Viscosity @ 20°C	5.2 cP
Surface Tension @ 20°C	23 dynes/cm
Lower Flammability in Air	1.0% v/v
Upper Flammability in Air	5.5% v/v
Specific Heat @ 20°C	2.4 kJ/kg/°C
Conductivity @ 20°C	0.3 μS/m
Dielectric Constant @ 20°C	10.4
Odor Threshold	1.1 ppm
Heat of Vaporization @ normal boiling point	413 kJ/kg
Heat of Combustion @ 25°C	36000 kJ/kg

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 MIBC is classified as a flammable liquid and can cause eye irritation. Keep the material away from heat sources, hot surfaces, open flames, and sparks.

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 MIBC 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.

MIBC should be stored under a nitrogen blanket when available. This product may absorb water if exposed to air.

MIBC should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, MIBC manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. MIBC 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: 4

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.

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