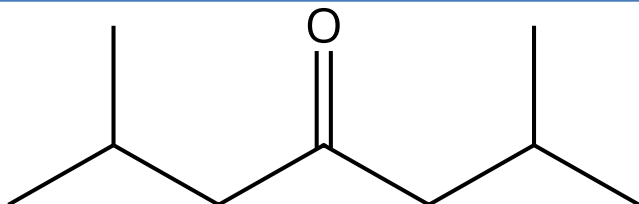


Diisobutyl Ketone (DIBK)



Diisobutyl Ketone (DIBK) is a clear, colorless liquid C9 branched ketone with a mild odor. The principal end uses of DIBK include industrial solvent, coatings, chemical intermediate, and ore flotation.

CAS number

108-83-8

Synonyms

2,6-Dimethyl-4-heptanone; 2,6-Dimethylheptan-4-one; Heptan-4-one, 2,6-dimethyl-; 4-Heptanone, 2,6-dimethyl

Product code

42219

Typical Physical Properties of DIBK

Molecular Weight	142.24 g/mol
Empirical Formula	C ₉ H ₁₈ O
Appearance	Colorless Liquid
Freezing Point	-46°C (-51°F)
Flash Point – Closed Cup	49°C (120°F)
Boiling Point @ 760mmHg	169°C (336°F)
Density @ 20°C	0.806 kg/l 6.73 lb/gal
Vapor Pressure @ 20°C	1.3 mmHg
Evaporation Rate (nBuAc = 1)	0.15
Solubility @ 20°C	
(in Water)	0.04%
(Water in)	0.5%
Hansen Solubility Parameters	
Total	8.0
Non-Polar	7.6
Polar	1.8
Hydrogen Bonding	2.0
Lower Flammability in Air	0.8% v/v
Upper Flammability in Air	7.1% v/v

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 DIBK is classified as a flammable liquid and respiratory irritant. 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

DIBK 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.

Storage in properly lined steel or stainless steel to avoid slight discoloration from mild steel is recommended. Avoid contact with air when storing for long periods of time. This product may absorb water if exposed to air.

Provided proper storage and handling precautions are taken, DIBK manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. DIBK 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: 6/30/2020

Revision: 1

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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