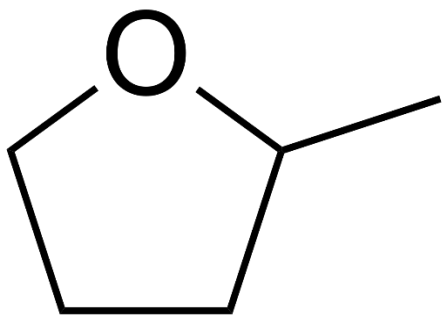
Monument Chemical

TECHNICAL PRODUCT INFORMATION

2-Methyltetrahydrofuran (2-MethylTHF)



2-Methyltetrahydrofuran (2-MethylTHF) is a clear, colorless liquid with an ether-like odor. The principal end uses of 2-MethylTHF include use as a higher boiling substitute for Tetrahydrofuran, pharmaceutical solvent, extraction solvent, Grignard reactions, organometallic reactions, and hydrogenation dichloromethane replacement solvent. Due to its' tendency to form peroxides during storage, 2-MethylTHF is inhibited with BHT.

CAS number

96-47-9

Synonyms

2-methyloxolane; furan, tetrahydro-2-methyl-; MTHF; tetrahydro-2-methylfuran

Typical Physical Properties of 2-MethylTHF

Molecular Weight	86.14 g/mol
Empirical Formula	$C_5H_{10}O$
Appearance	Colorless
Freezing Point	-136°C (-213°F)
Flash Point – Closed Cup	-11°C (-12°F)
Boiling Point @ 760mmHg	80°C (176°F)
Autoignition Temperature	260°C (500°F)
Density @ 20°C	0.85 kg/l 7.09 lb/gal
Vapor Pressure @ 20°C	135 hPa
Solubility @ 20°C (in Water)	140g/L
Refractive Index @ 20°C	1.406
Viscosity @ 25°C	4 mPa-s
Lower Flammability in Air	1.5% v/v
Upper Flammability in Air	8.9% 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 2-MethylTHF is classified as a flammable liquid, can cause eye and respiratory irritation, harmful if swallowed. 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 2-MethylTHF in carbon steel vessels. Storage in 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.

2-MethylTHF should be stored under a nitrogen blanket when available. Avoid contact with air when storing for long periods of time. This product will form peroxides and absorb water if exposed to air.

2-MethylTHF 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, 2-MethylTHF manufactured and delivered by Monument Chemical is stable for at least 24 months from the date of manufacture. 2-MethylTHF 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: January 22, 2025
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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