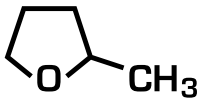
MINASOLVE®
GREEN SOLVING ATTITUDE

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 100%



VIRIDISOL™

KEY ADVANTAGES

- **Versatile applications:** Excellent replacement for tetrahydrofuran (THF) in Grignard and other organometallic reactions. It may replace chlorinated solvent as well as Hexane. Effective in alkylation, amidation, nucleophilic substitutions, additions and reduction reactions.
- **Higher efficiency:** Permits higher reaction temperatures, improve reaction yields, effective for biphasic reactions and gives clean phase separation.
- **Improved solvent properties:** Limited water miscibility aids product recovery, and it dries easily with lower losses.
- **Pharmaceutical and cosmetic use:** Classified as ICH Q3C (R9) Class 3 for API production, Ecocert-approved for detergency, and COSMOS-approved for lipophilic extractions in cosmetics.

MeTHF, as an aprotic solvent, offers higher efficiency, in many chemical synthesis, lipophilic extraction, and environmental benefits, making it a preferred solvent in various industries.

AVAILABILITY AND SHIPPING

The DOT HM 181 shipping name for MeTHF is methyltetrahydrofuran. It is a hazard class three (3) flammable liquid, Packaging Group II material that requires a red flammable liquid label. The ID Number is UN 2536. Consult the SOS for additional shipping information. MeTHF is available in bulk, in 55 gallon (208.20 L) steel drums (375 lbs / 170.10 kg) and 5 gallon steel pails (35 lbs / 15.88kg) net weights.

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2-METHYLTETRAHYDROFURAN

Formula	$C_5H_{10}O$
Molecular Weight	86.13
CAS Registry Number	96-47-9
EINECS Number	202-507-4
REACH Number	01-2119968920-28-0000

HEALTH AND SAFETY

MeTHF is a flammable liquid with a mildly typical ethereal odor. MeTHF vapors, when mixed with air, are flammable when exposed to ignition sources. MeTHF is considered as irritating and requires proper equipment for handling it. All detailed information about key health and safety elements for MeTHF is available by consulting the material safety data sheet.

SPECIFICATIONS

Assay, % minimum	99.9
Water, ppm	300
Antioxidant*, ppm	150-400

*BHT or Tocopherol

PROPERTIES

Boiling Point, °C	80
Freezing Point, 0 C	-136
Density (20°C)	0.855
Refractive Index (20° C)	1.406
Latent Heat of Vaporization, cal / g	89.7
Flash Point (Tag. Closed Cup), °C	-11.1
Solubility in Water at 20°C, wt%	14
Solubility Water in MeTHF 20° C, wt%	4.4
Water Azeotrope Boiling Point, 0 C	71
wt% MeTHF	89.4
wt% Water	10.6