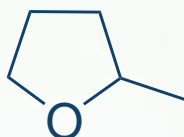


DATA SHEET

2-Methyltetrahydrofuran

2-Methyltetrahydrofuran



Chemical nature

| | |
|--------------------|----------------------------------|
| Chemical name: | 2-Methyltetrahydrofuran |
| IUPAC name: | 2-Methyloxolane |
| Synonyms: | Tetrahydro-2-methylfuran, MeTHF |
| Molecular formula: | C ₅ H ₁₀ O |
| Molecular weight: | 86.13 g/mol |
| CAS number: | 96-47-9 |
| EC number: | 202-507-4 |

EU REACH

Registration number: 01-2119968920-28-0009 (TFC)

Delivery specifications

| Parameter | Specification | Analysis method * |
|---|---------------|-------------------|
| 2-Methyltetrahydrofuran purity (excl. BHT) [%] | min. 99.9 | AM 112 |
| Butylated Hydroxytoluene (BHT) [ppm] | 150 - 400 | AM 131 |
| Moisture content [wt%] | max. 0.03 | AM 110 |
| Peroxides (as H ₂ O ₂) [ppm] | max. 15 | AM 111 |
| APHA colour | max. 20 | AM 109 |

* Available on request

Physical data

| | |
|-------------------------------|---------------------------------------|
| Appearance: | clear, colourless, transparent liquid |
| Odour: | ether like |
| Boiling point: | 78°C |
| Flash point (closed cup): | -10°C |
| Melting point/freezing point: | -136°C |
| Refractive Index (20°C): | 1.405-1.407 |
| Relative density (20°C/4°C): | 0.84-0.86 |
| Viscosity (20°C): | 0.576 mm ² /s |

| | |
|---|---------------------------------------|
| Vapour pressure (25°C): | 14 kPa |
| Evaporation rate (<i>n</i> -butylacetate = 1): | 4.2 |
| Auto-ignition temperature: | 260°C |
| Latent heat of vaporization (20°C): | 89.7 cal/g |
| Solubility in water (20°C): | 14 wt% |
| Solubility of water in MeTHF (20°C): | 4.4 wt% |
| Partition coefficient <i>n</i> -octanol/water: | 1.1 |
| Water azeotrope boiling point: | 71°C (89.4 wt% MeTHF, 10.6 wt% water) |
| Hansen solubility parameter: | |
| • Non-polar: | 8.3 |
| • Polar: | 1.9 |
| • Hydrogen bond: | 3.0 |
| • Total: | 8.9 |
| Solubility of MgBr ₂ (25°C): | 40 |
| Dielectric constant (25°C): | 7.0 |
| Donicity: | 18 kcal/mol |

Applications

Use as solvent in chemical synthesis, for grignard reactions or organometallic reactions
Use in solvent recovery, as an extraction solvent
Use as additive in bio-fuels

Packaging

Available in bulk (ISO container) and drum (170 kg net)

Shelf life

The product should be stored under ambient conditions (max. 25°C), protected from exposure to direct sunlight, heat sources and air. Storage under nitrogen atmosphere is recommended.

Shelf life: 24 months after production (with stabilizer)

Other information

| | |
|---------------------------|------------|
| UN number: | 2536 |
| ADR/ADN/RID hazard class: | 3, code F1 |
| IMDG hazard class: | 3 |
| ICAO hazard class: | 3 |
| HS code: | 2932.1900 |

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Our locations in the world

● commercial offices (IFC, TFUK en IFC NA)

● manufacturing location (TFC)