



CAS #	EINECS #	Formula
109-99-9	203-726-8	C ₄ H ₈ O

GENERAL DESCRIPTION

Tetrahydrofuran, also known as Diethylene oxide, Oxolane, Tetramethylene oxide, or THF is a cyclic ether with the formula C₄H₈O. Tetrahydrofuran is a colorless, volatile liquid, which is used as a solvent for natural and synthetic resins, particularly vinyls, in topcoating solutions, polymer coating, cellophane, protective coatings, adhesives, magnetic tapes, printing inks, etc., Grignard reactions, lithium aluminum hydride reductions, and polymerizations; chemical intermediate and monomer.

SPECIFICATIONS

Test Description	Lower Limit	Upper Limit
Tetrahydrofuran, %	99.9	0.05
Water, ppm		300
Peroxide, ppm		50
Inhibitor / BHT, ppm	200	400
Color, APHA		10

Note: Specifications are for reference purpose only. Actual results may vary.

TYPICAL PROPERTIES

Description	Result
Flash Point:	-21.1 °C (-6 °F)
Initial Boiling Point:	65 °C (149 °F) 101.325 kPa
Melting Point/Freezing Point:	-77.8 °C (-108 °F)
Partition Coefficient (n-octanol/water):	0.46
Dynamic Viscosity:	0.53 mPa.s (68 °F (20 °C))
Surface Tension:	26.4 mN/m (77 °F (25 °C))
Vapor Density (air=1):	2.56
Density:	0.89 g/ml
Specific Gravity (Water=1):	0.89
Pounds/Gallon:	7.41
Auto-Ignition Temperature:	321 °C (609.8 °F)

Note: Typical Properties are for reference purposes only. Actual results may vary.

AVAILABILITY

Available in 4 fl oz, Pint (16 fl oz), Quart (32 fl oz), Gallon (128 fl oz), 5 Gallon (640 fl oz), 55 Gallon Drum (7040 fl oz).

SHELF LIFE

Tetrahydrofuran shelf life is 1 year.

SHIPPING INFORMATION

Proper Shipping Name: Tetrahydrofuran

UN Number: UN2056

Class or Division: 3

Packing Group: II

Label Required: Flammable Liquid (3)

SAFETY INFORMATION

Hazard Statements	Highly flammable liquid and vapor Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing cancer
Precautionary Statements - Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, hot surfaces. -No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilation, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust, fume, gas, mist, vapors, spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, respiratory protection, eye protection, protective clothing, and face protection. Wash contaminated clothing before reuse.
Precautionary Statements - Response	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. In case of fire: Use dry powder, carbon dioxide, alcohol-resistant foam, or vaporizing liquids.
Storage	Store tightly closed in a cool, well-ventilated place. Store locked up. Store away from sources of ignition.
Disposal	Dispose of contents/container to an approved waste disposal plant. Dispose of in accordance with local, regional, national, and international regulations.

Additional Information

This product is considered a hazardous material. Do not handle until all safety precautions have been read and understood. Read the product label & safety data sheet (SDS) for information on proper handling, health risks, firefighting methods, spill procedures, emergency contact information, precautionary information, disposal information & more. Safety data sheets are available at www.casewayproducts.com or by emailing support@casewayproducts.com

FOR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN

Before using, the user must make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

* The information, suggestions, technical data, and advice provided on this sheet are based on test results, knowledge, and experience believed to be accurate and reliable. However, all information, suggestions, technical data, and advice are not to be considered a warranty and Caseway Industrial Products, Inc. assumes no liability for any direct, indirect punitive, incidental, special consequential damages, to property or life.