

# PRODUCT DATA SHEET

## Tetrahydrofuran (THF)

### Product Description

Tetrahydrofuran (THF) is an industrial solvent used in the plastics, pharmaceutical, and specialty chemicals industries. INVISTA™ THF is at least 99.95% pure with a small (approximately 0.01%) amount of butylated hydroxytoluene (BHT) added as an antioxidant.

### Precautions

THF is extremely flammable. Before using THF in any application, the user should review and understand the Safety Data Sheet.

### Standard Sales Specifications

Property	Units	Minimum	Maximum
Purity (THF)	Wt%	99.95	
Color	APHA		10
Water	ppm		300
Peroxide (calculated THF-hydroperoxide)	ppm		10
Stabilizer (BHT)*	ppm	75	150

\*THF product also offered with 250 – 400 ppm BHT (THF High BHT).  
Appearance: A clear, colorless liquid

### Major Industrial Uses

#### Resin Solvent

- PVC and CPVC pipe cement
- Magnetic tape manufacture
- Polyurethane fabric coatings

#### Intermediates

- Manufacture of natural gas odorants
- Production of polytetramethylether glycols for polyurethanes and polyester producers of inks for plastics

#### Reaction Solvent

- Pharmaceutical and specialty chemicals
- Alkali metals, alkyl alkali and aryl alkali metal compounds
- Alkali metal, aluminum hydrides, and borohydrides
- Organics with limited solubility in alcohols, ketones, ethers, and esters
- Steroids

## Physical Data and Properties

Property	Typical Value
Specific Gravity @ 20 °C	0.90
Boiling Point (°C)	66
Freezing Point (°C)	-108.5
Liquid Density @ 20 °C (lb/gal)	7.41
Vapor Density (Air = 1)	2.49
Evaporation Rate (n-butyl acetate = 1)	8.0
Viscosity @ 20 °C cP (mPa.s)	0.48
Heat of Vaporization @ bp (btu / lb)	195
Specific heat, Liquid @ 20 °C (btu/ lb.F)	0.42
Coefficient of Thermal Expansion @ 10 – 20 °C	0.00126
Flash Point, TCC (°C)	-20
Solubility in water (%)	100
Odor	Ethereal
Vapor Pressure @ 20 °C (mmHg)	130

### For Samples and Information:

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