

## Products &amp; Industries

## Product Finder

Acetylenic alcohols  
 Butadiene extraction  
 Chiral intermediates  
 Coatings  
 Ethanol- and  
 Ethyleneamines  
 Formic acid  
 Gas Treatment  
 Glyoxal  
 Inorganic Specialties  
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 PUR  
 Rubber  
 Spandex/Elastane  
 Specialties: Solvents and  
 HNDA  
 Tetrahydrofuran (THF)  
 Triphenylphosphine (TPP)  
 Vinyl monomers & vinyl  
 ethers  
 Vinylphosphonic acid (VPA)

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## PolyTHF®

**PolyTHF is a colourless, clear liquid (lower molecular weights) or white, waxy solid at room temperature. It will melt to yield a colourless, clear liquid. It is soluble in many conventional organic solvents, partly infinitely mixable. It is practically insoluble in water.**

### Contact

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### Which are the application fields of BASF's PolyTHF?

PolyTHF is one of the main soft segments for thermoplastic elastomers and crosslinked elastomers.

The hard segment of thermoplastic elastomers generally consists of chain extenders such as short chain diols (e.g. 1,4- butanediol) and diamines (e.g. 1,2-propylenediamine). The amorphous soft segment (PolyTHF) not only imparts elasticity and low temperature flexibility to the finished product but influences the chemical behavior as well. Careful adjustment of the soft segment fine-tunes the desired properties of the final application.

BASF is the global market leader in PolyTHF production and manufactures a wide range of PolyTHF molecular weights, including the standard molecular weights 650, 1,000 and 2,000; as well as special 250, tech molecular weights.

### Which are the properties and benefits of BASF's PolyTHF?

PolyTHF is the ideal soft segment for PUR with:

- excellent dynamic mechanical properties across a wide temperature range
- exceptional low temperature behavior
- superior hydrolytic stability
- high moisture vapor transmission
- excellent abrasion resistance
- high microbial resistance

PolyTHF's physical and chemical properties give it advantages over competitive materials such as polyester polyols, due in particular to its superior hydrolysis stability and microbial resistance.

#### Availability

Global

#### Industries

##### Plastics & Rubber

Plastic Additives & Pigments

#### Areas of Application

##### Manufacturing

Plastics processing  
 Foams (PU)  
 Other plast. process. products

##### Textiles and Leather

Leather manufacture  
 Textile coating

#### Service

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