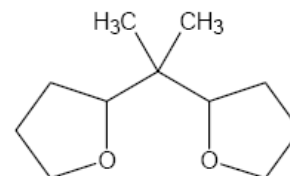


# Ditetrahydrofurfurylpropane



Formula:..... C<sub>11</sub>H<sub>20</sub>O<sub>2</sub>  
 Molecular Weight:..... 184.28  
 CAS Registry Number:..... 89686-69-1  
 EINECS Number:..... not listed

## Applications

Ditetrahydrofurfurylpropane (DTHFP) is a bidentate coordinating ether that dramatically affects organolithium structures and reactivities. DTHFP is especially useful in controlling the structure of polymers produced from anionic polymerization of dienes (butadiene, isoprene), styrene-diene copolymers, hydrogenated styrene-butadiene block copolymers and liquid polybutadienes. In these systems, DTHFP is used as a modifier for the organolithium catalyst to increase the level of 1,2-microstructure (vinyl structure) in the polyene.

Low ratios of DTHFP to lithium can be used to produce high vinyl content in the polyenes. DTHFP has several advantages over other polar modifiers.

- High polymerization temperatures can be used while still making high vinyl polymer
- Higher conversion rates from increased reaction temperatures translates into improved productivity from shorter batch cycles
- The low volatility and odor of DTHFP provides advantages in the isolation of the polyene and recycle and purification of the polymerization solvent

## Contact Information

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## Health and Safety

Ditetrahydrofurfurylpropane is a flammable liquid. Protect from oxygen as peroxides will form. Always consult the MSDS when using ditetrahydrofurfurylpropane.

## Specifications

Specifications	Value
Assay, % minimum.....	97.0
DTHFP, trimer, wt% maximum.....	2
DTHFP, tetramer, wt% maximum.....	0.5
Difurfurylpropane, % maximum.....	0.3

## Property

Property	Value
Boiling Point, 60 mm °C.....	145
Density (20 °C).....	1.0
Vapor density (air=1).....	6.4
Flash Point (Tag closed cup), °C.....	95
Solubility in Water at 20°C, g/100g.....	<0.2

## Availability and Shipping

Ditetrahydrofurfurylpropane is available in bulk, 55 gallon drums and 5 gallon cans. DOT: Not regulated as a hazardous material by DOT 49 CRF.