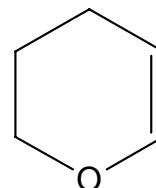


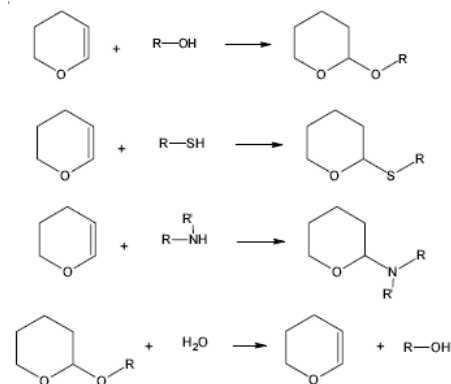
# Dihydropyran



Formula:..... C<sub>5</sub>H<sub>8</sub>O  
 Molecular Weight:..... 84.12  
 CAS Registry Number: ..... 110-87-2  
 EINECS Number:..... 203-810-4

## Applications

3,4-Dihydro-2H-pyran (DHP) is a vinyl ether that finds many applications as a convenient protecting group and as a synthetic intermediate. DHP can be used to protect a number of reactive functional groups. Alcohols, carboxylic acids, sulfhydryl, amines and amides can be protected with DHP with mild acid catalysis. A number of mild procedures have been developed to protect groups with DHP. The protected compounds are stable to alkali, Grignard reagents, organolithium reagents, acetic anhydride, lithium aluminum hydride, and chromium trioxide oxidations. The DHP protecting group can then be removed with mild hydrolysis.



## Contact Information

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## Health and Safety

DHP is flammable and should be protected from oxygen exposure to avoid peroxide formation. Consult the MSDS for details on storage and handling of DHP.

## Specifications

Specifications	Value
Assay, % minimum.....	97.0
Water, % maximum.....	0.3
Gardner Color, max.....	2

## Property

Property	Value
Boiling Point, °C.....	85
Freezing Point, °C.....	-70
Density (20°C).....	0.927
Refractive Index (20°C).....	1.438
Latent Heat of Vaporization, kcal/mol.....	7.7
Flash Point (Tag. Closed Cup), °C.....	-15
Solubility in Water at 25°C, g/100g.....	1.6
Solubility Water in DHP 25°C, g/100g.....	0.5
Water Azeotrope Boiling Point, °C.....	71
wt % DHP.....	90.2
wt % water.....	9.8

## Availability and Shipping

DHP is available in 5-gallon steel pails, 55-gallon steel drums and bulk containers. Transport information: Shipped as: 3,4-Dihydro-2H-pyran, Hazard Class 3 46 CFR 3 UN 2376 Flammable Liquid Packaging Group 11