

## Alkenes

**Naming:** ends in *-ene*  
e.g. but-2-ene

## Physical Properties

~ Insoluble in water  
~ Melting point increases with Carbon chain length  
~ Low melting point

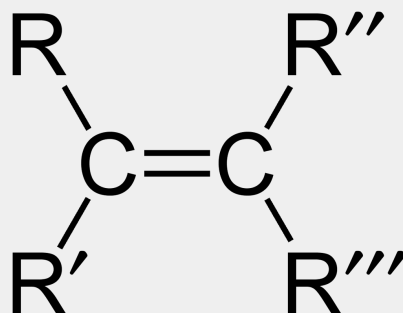
## Preparation

### Can be formed using:

Alkane -> Alkene (H<sub>2</sub>/Pt)  
Alcohol -> Alkene (H<sup>+</sup>/H<sub>2</sub>O)  
Haloalkane -> Alkene (HX)  
Alcohol (diol) -> Alkene (H<sup>+</sup>/MnO<sub>4</sub>)  
Haloalkane -> Alkene (X<sub>2</sub>)

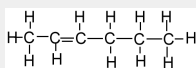
X = halogen

## Functional Group



-C=C-

## Hex-2-ene



## Isomers

trans

Methyl groups on opposite sides of double bond

cis

Methyl groups on same side of double bond

see diagram below

## Trans isomer



## Cis isomer



C

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