

Alkenes

Chemistry

The C=C double bond, and the addition reactions it enables.

Electrophilic addition reactions, general formula C_nH_{2n} .

Reagent	Product	Conditions
H₂	Alkane	Ni catalyst, 150°C
Br₂	Dibromoalkane	Room temperature — decolourises
HBr	Halogenoalkane	Room temperature
H₂O	Alcohol	Steam, H ₃ PO ₄ , high pressure
KMnO₄	Diol	Cold, dilute, acidified

Markovnikov's rule: with an unsymmetrical alkene and HX, the hydrogen adds to the carbon already carrying more hydrogens.