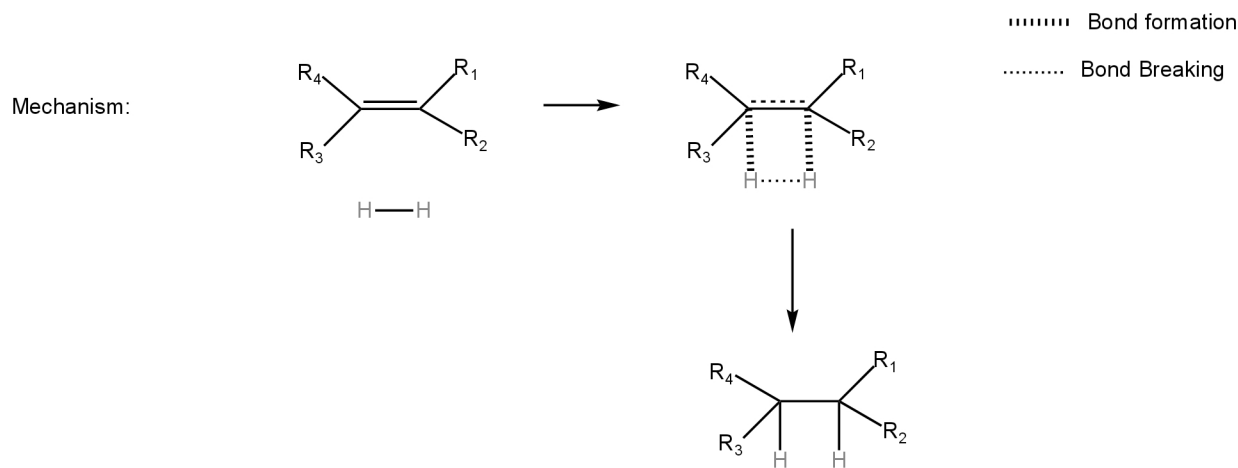
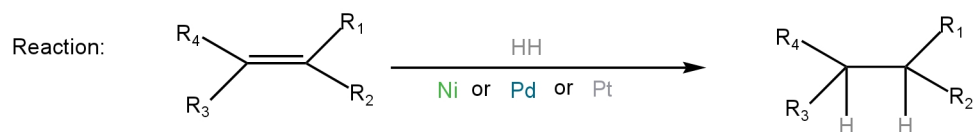


Catalytic Hydrogenation

1 Reaction and Mechanism

Catalytic Hydrogenation



KingDraw

2 Reaction Observations

- Example of addition and Redox reaction.
- syn addition
- Example of surface phenomenon and involves 4 MCTS.
- Pd/BaSO_4 a.k.a Lindlar's Catalyst and Quinoline is added as poison.

v. In case of conjugated diene, 1,4addition takes place due to 6 MCTS.

vi. Reactivity,

$C - S \text{ bond} > \text{Alkyne} > Ar - NO_2 > R - COCl > \text{Alkene} > RCHO > RCOR > Benzene^* > RCOOH^* < \text{acid derivative}^*$ * require heat

$$\propto \frac{1}{\text{Steric Hindrance}}$$

$$\propto \frac{1}{\text{Stability of Alkene}}$$