

# Study Guide: Alkenes, Cycloalkenes, Alkynes, and Cycloalkynes

## Reactions of Alkenes and Cycloalkenes

### General Reactivity

- Alkenes and cycloalkenes are unsaturated hydrocarbons characterized by at least one carbon–carbon double bond ( $C=C$ ).
- Their most common reactions are electrophilic additions, where the  $\pi$  bond breaks to form two new  $\sigma$  bonds.
- Cycloalkenes behave similarly to alkenes but their reactivity is influenced by ring strain and the stability of carbocations formed during reactions.

### Common Addition Reactions

#### 1. Hydrogenation

Definition: Addition of hydrogen ( $H_2$ ) across a double bond.

Catalyst: Ni, Pt, or Pd.

Product: Converts alkene  $\rightarrow$  alkane.

Example: Ethene +  $H_2$   $\rightarrow$  Ethane.

#### 2. Halogenation

Definition: Addition of a halogen ( $Cl_2$  or  $Br_2$ ) across the  $C=C$  bond.

Product: Dihaloalkane.

Test: Decolorization of bromine water indicates presence of a double bond.

# Alkenes And Alkynes Study Guide Answer Key

**Priti Singhal**

## Alkenes And Alkynes Study Guide Answer Key:

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web oct 3 2022 as we mentioned in section 6 1 exponential and logarithmic functions are used to model a wide variety of behaviors in the real world in the examples that follow

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we understand that a function from one set called the domain to another set called the range assigns to each element of the domain exactly one element of the range if  $f$  is a

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