

## 10.4 Electrophilic Reactions

**General Introduction** An electrophile is an electron-seeking species, reacting with a lone pair or a double bond.

### Electrophilic Reactions

Electrophilic reactions involving alkenes are addition reactions where both ends of the

- alkene are attacked by an electrophile (E<sup>+</sup>) to form a carbocation intermediate (an alkyl cation).
- The carbocation is then attacked by a nucleophile (Nu<sup>-</sup>) to form the final product, an alkylated alkane.

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When reacting alkenes with H<sup>+</sup>, the following reactions occur:

### Electrophilic Addition of H<sup>+</sup>

- In the following mechanism, alkenes react with H<sup>+</sup> to form a carbocation intermediate. Hydrogen ions are added across the double bond.
- Write down the mechanism for the reaction of ethene with H<sup>+</sup> to form ethanol.

- Write down the mechanism for the reaction of propene with H<sup>+</sup> to form propan-2-ol.

### Electrophilic Addition of Br<sub>2</sub>

- Write down the mechanism for the reaction of ethene with Br<sub>2</sub> to form 1,2-dibromoethane.

# 19 4 Neutralization Reactions Worksheet Answers

**JS Bruner**



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