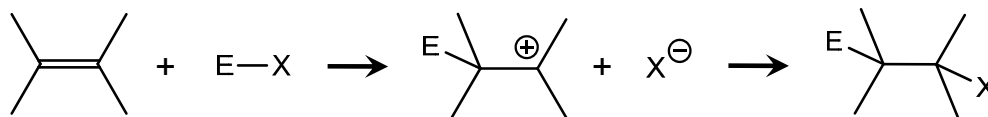


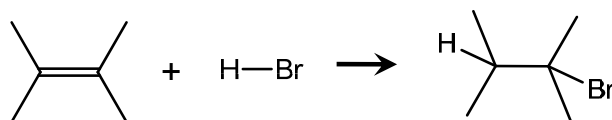
Electrophilic Addition to Alkenes

General Scheme:



E = electrophilic group
 X = leaving group

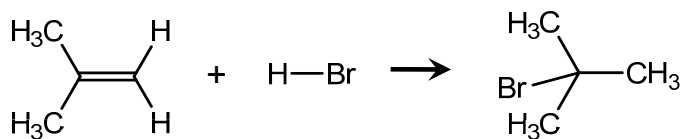
Example: Hydrohalogenation (addition of HX).



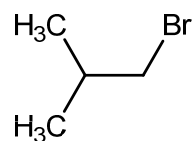
Markovnikov's Rule of Electrophilic Addition

Electrophiles typically add such that the most stable cation intermediate is formed. (Usually, so that the electrophile is bound to the less substituted carbon.)

Hydrohalogenation example:



selectively.



not
observed.

We would call this reaction *regioselective*.

Markovnikov Addition of H₂O to Alkenes

Hydration

Harsh and reversible.

