

THEORY

1. The reaction of an alkene with a halogen is an addition reaction. The halogen atoms add across the double bond of the alkene to form a saturated halogenoalkane.

2. The reaction of an alkene with hydrogen is an addition reaction. The hydrogen atoms add across the double bond of the alkene to form a saturated alkane.

3. The reaction of an alkene with water is an addition reaction. The water molecule adds across the double bond of the alkene to form a saturated alcohol.

4. The reaction of an alkene with a hydrogen halide is an addition reaction. The hydrogen and halide atoms add across the double bond of the alkene to form a saturated alkyl halide.

Alkene	Halogenoalkane	Alkane	Alcohol	Alkyl Halide
Ethene	1,2-Dihaloethane	Ethane	Ethanol	Ethyl Halide
Propene	1,2-Dihaloethane	Propane	Propan-2-ol	Propyl Halide
Butene	1,2-Dihaloethane	Butane	Butan-2-ol	Butyl Halide

EXPERIMENT

