

## Bromination of Alkenes

### Purpose

To show the bromination rates for alkenes and alkanes.

### Materials

5% bromine in trichloroethane	3 Petri dishes
hexane	dropper
cyclohexene	UV lamp
toluene	

### Procedure

1. Cover the bottom of one Petri dish with hexane, one with cyclohexene, one with toluene.
2. Add 3 drops of bromine solution to each.
3. Swirl to mix.
4. Observe color changes.
5. If no color change is evident after 1 minute, the UV lamp can be used to produce bromination of hexane.

### Additional Information

1. Avoid placing bromine in contact with skin.

### Disposal

Solutions should be placed in properly labeled waste containers. Care should be taken when pouring the solutions, and they should be poured in the hood.