

1. Hydrohalogenation (Markovnikov)

2. Hydrohalogenation (anti-Markovnikov)

3. Acid-catalyzed hydration and oxymercuration-demercuration

4. Hydroboration-oxidation

5. Hydrogenation

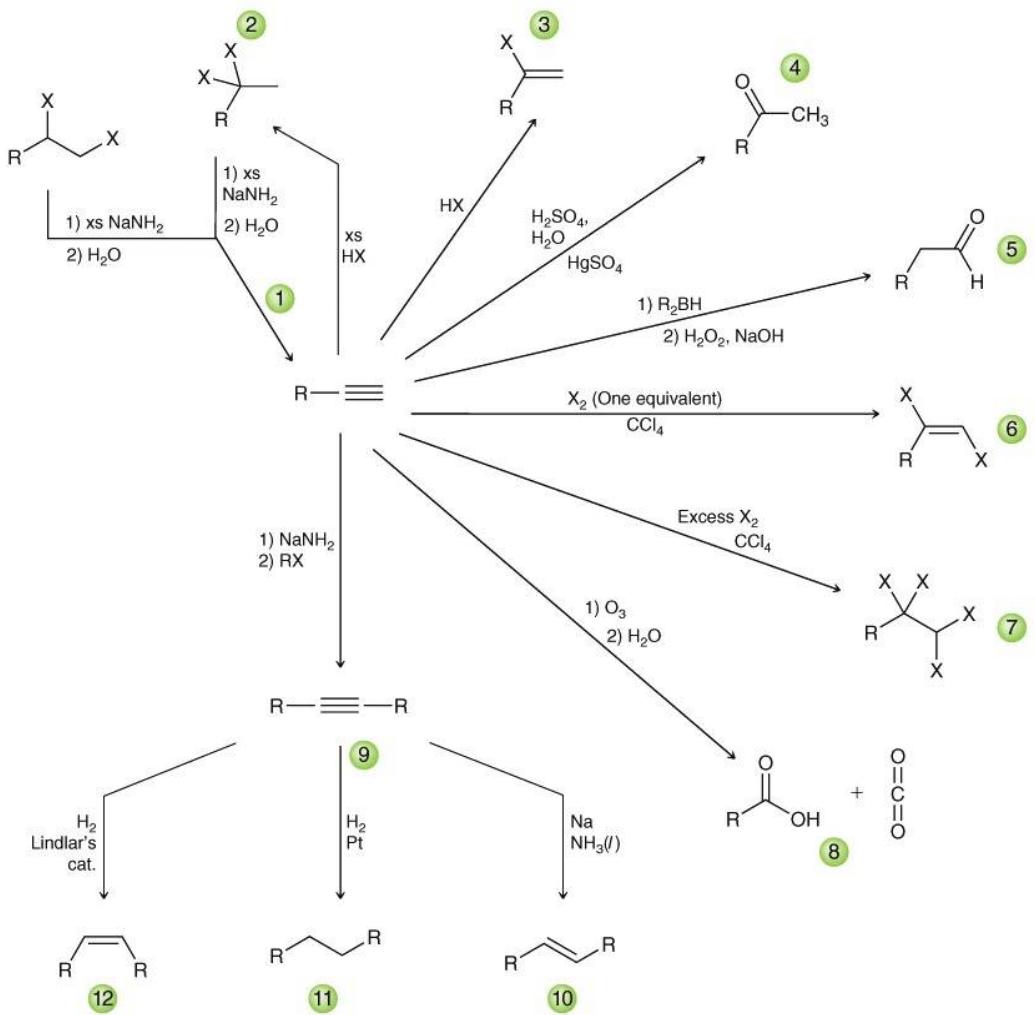
6. Bromination

7. Halohydrin formation

8. Anti dihydroxylation

9. *Syn* dihydroxylation

10. Ozonolysis



1. Elimination
2. Hydrohalogenation (two equivalents)
3. Hydrohalogenation (one equivalent)
4. Acid-catalyzed hydration
5. Hydroboration-oxidation
6. Halogenation (one equivalent)
7. Halogenation (two equivalents)
8. Ozonolysis
9. Alkylation
10. Dissolving metal reduction
11. Hydrogenation
12. Hydrogenation with a poisoned catalyst