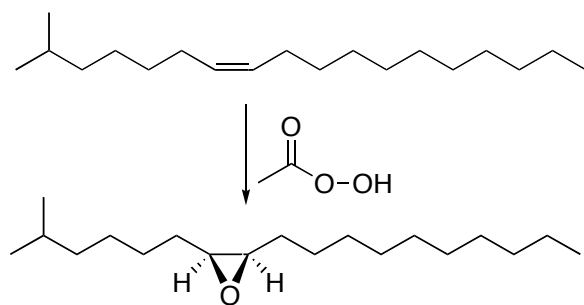


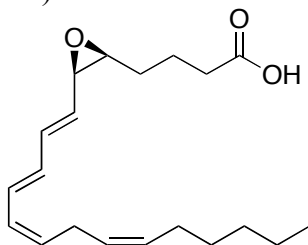


- Done by Adolf Butenandt

Gypsy moth sex pheromone

- Pheromones (pheroin horman – to carry excitement)
- Chemical messengers

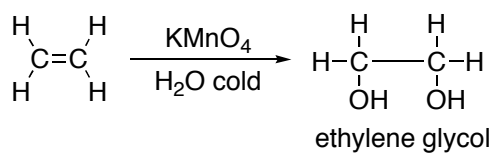
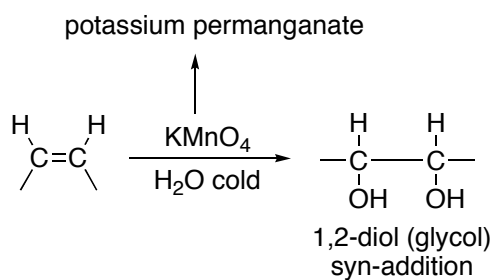
Ex)



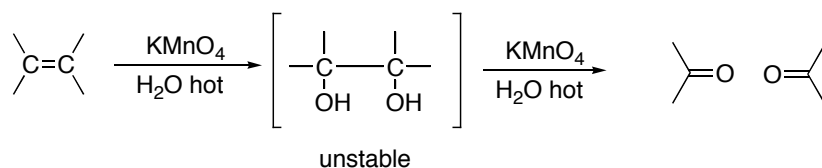
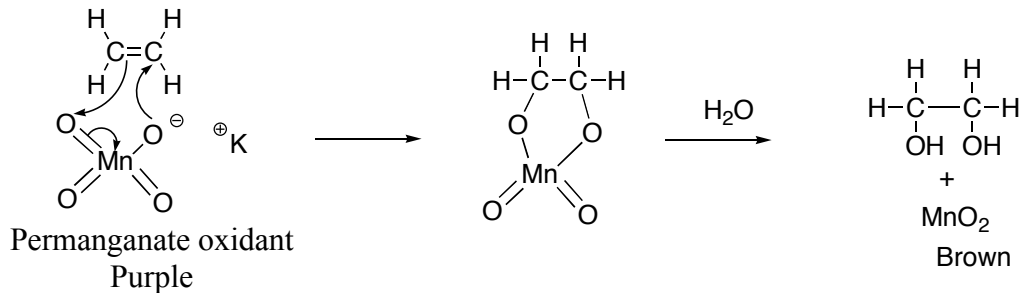
Leukotriene A4 -

- substance (chemical messenger) that mediates anaphylaxis (allergic reaction, asthma)

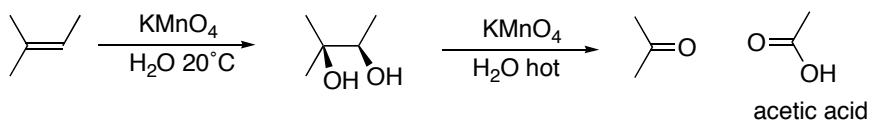
Dihydroxylation



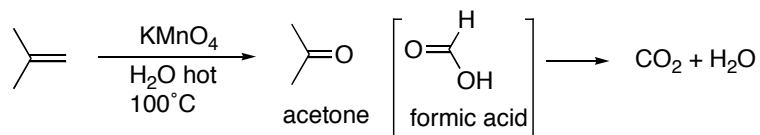
Mechanism



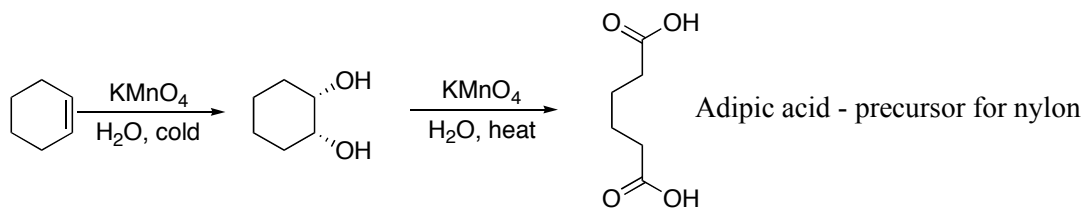
eg



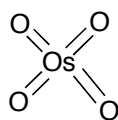
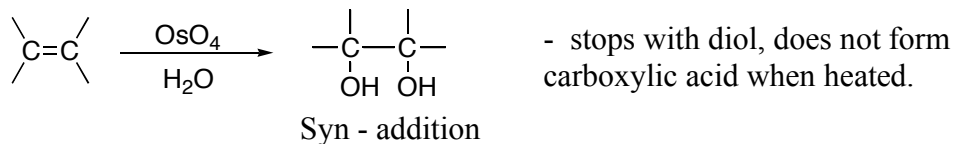
eg



eg

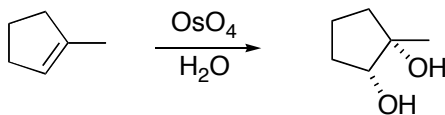


OsO₄, osmium tetroxide.



volatile and toxic solid

eg.



Polymers and Polymerization

Poly = many

Meros = parts

Nature has many polymers, for example: nucleic acids (DNA, RNA), proteins and peptides (from amino acids), fat (from acetate), polysaccharides (sugar polymers).

1826 – Christian Schönbein in Basel, Switzerland

$\text{H}_2\text{SO}_4 + \text{HNO}_3 + \text{Cotton} \rightarrow \text{Explosion (no smoke)} = \text{gun cotton (nitrocellulose)}$

