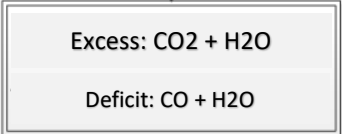


O<sub>2</sub> (Combustion)



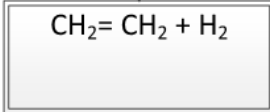
Pt + Δ

Cl<sub>2</sub> /hf



Substitution:  
Halogenation

Elimination: cracking



In alcohol + NaOH + Δ

Elimination: Dehydrohalogenation

In alcohol + H<sub>2</sub>O

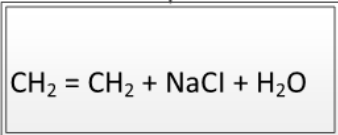
Substitution: Hydrolysis

In alcohol + NH<sub>3</sub> + Δ + High pressure

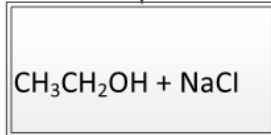
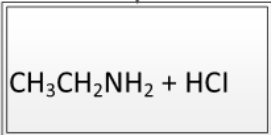
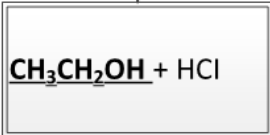
Substitution

In alcohol + NaOH

Substitution



Zaitzev-rule



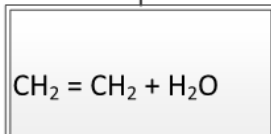
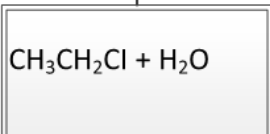
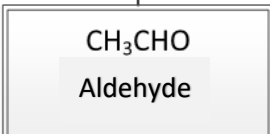
NH<sub>3</sub>

K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> + acid + Δ

HCl Substitution

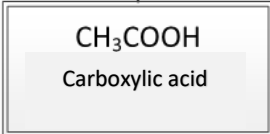
H<sub>2</sub>SO<sub>4</sub> + Δ

Elimination: Dehydration



Zaitzev-rule

K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> + acid + Δ



Alcohol + H<sub>2</sub>SO<sub>4</sub>

NH<sub>3</sub>

