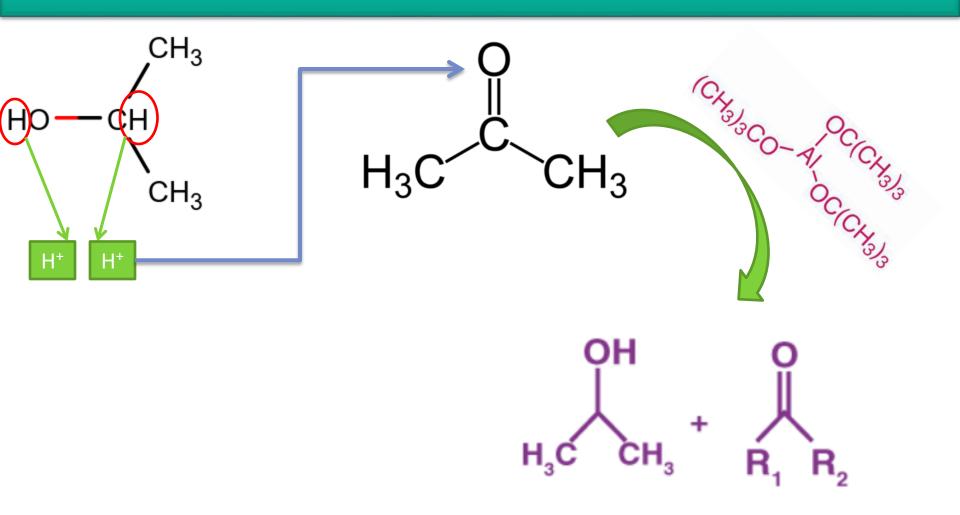
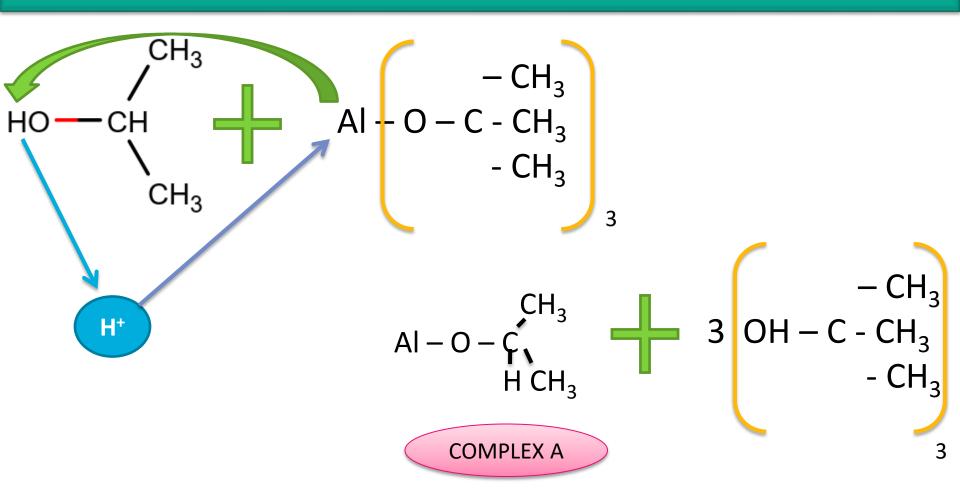
OPPENAUER OXIDATION REACTION

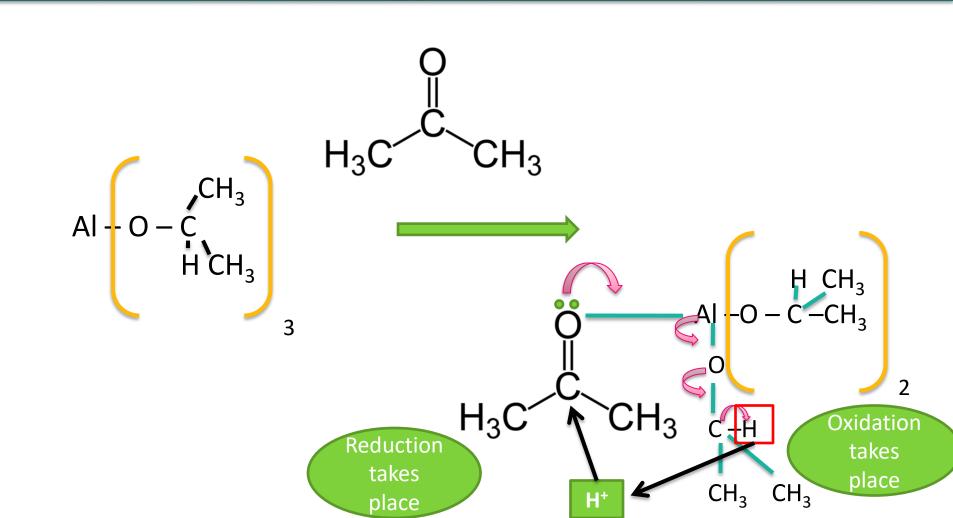
- Oxidation means removal of H⁺ or addition of Oxygen
- In oppenauer oxidation-
- Secondary alcohol gets converted into ketones by oxidation in presence of aluminium tertiary butoxide

- The secondary alcohol donates 2 H⁺ ions, one of the H⁺ ion gets attached to the oxygen atom of acetone
- And in the presence of aluminium tertiary butoxide ketone is formed with remaining elements as by product





- Al replaces the hydrogen in secondary alchol, the H⁺ released attacks the oxygen in Al. tert. Butoxide
- Complex A is formed which in turn reacts with acetone
- L.P. of oxygen attracts Al and hence a new compound is formed as follows



- Since oxygen is highly electronegative element delocalisation of charges occurs and Hydorgen in form of H⁺ is released
- Which in turn gets attached to the carbon [of acetone]
- A ketone is formed

Final product formed is as follows-

