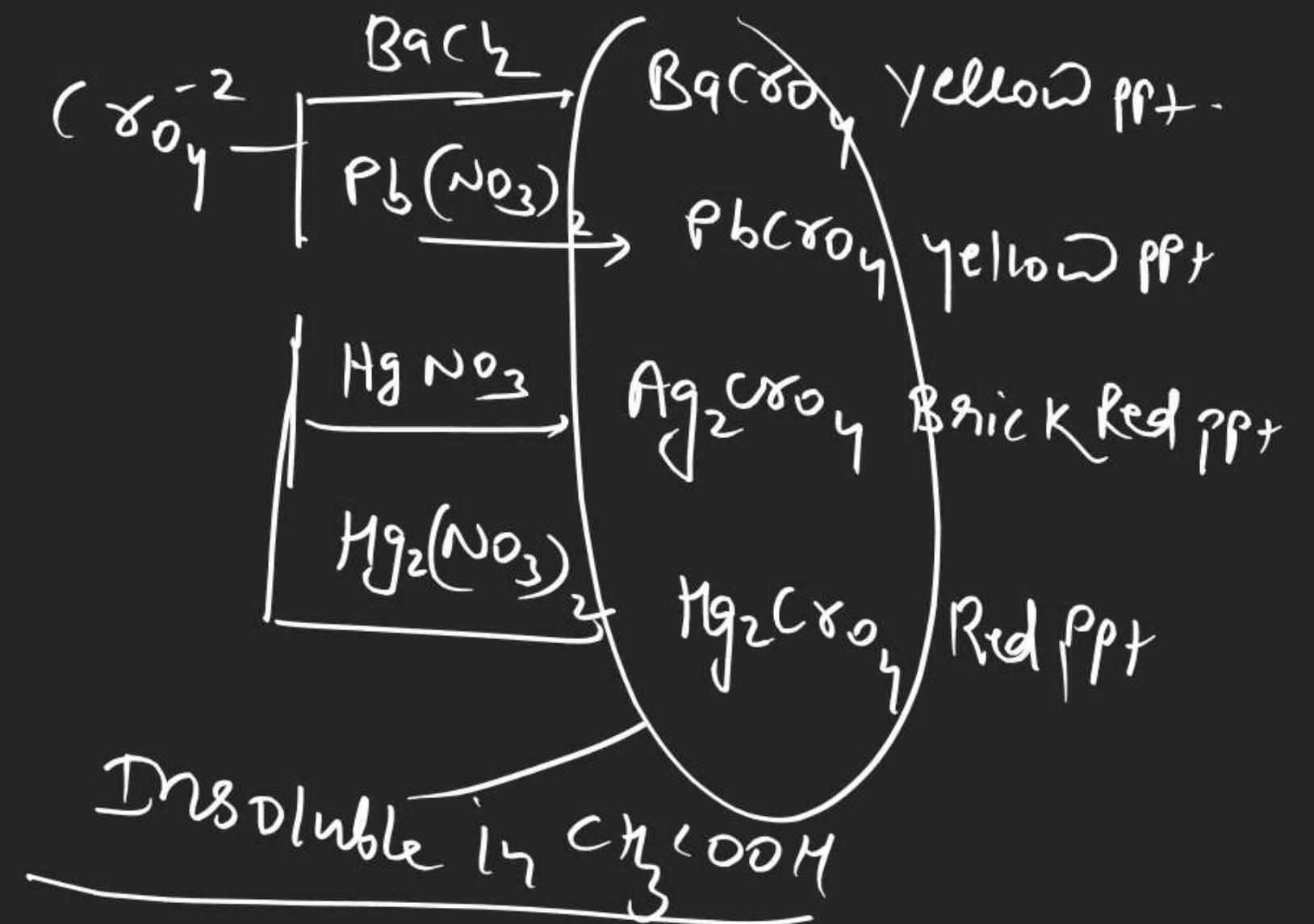
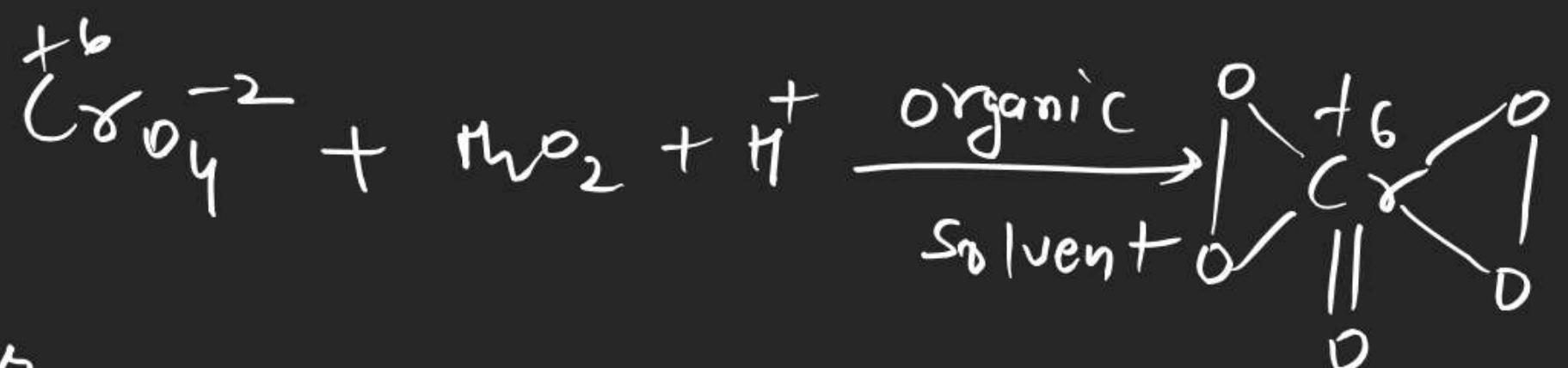


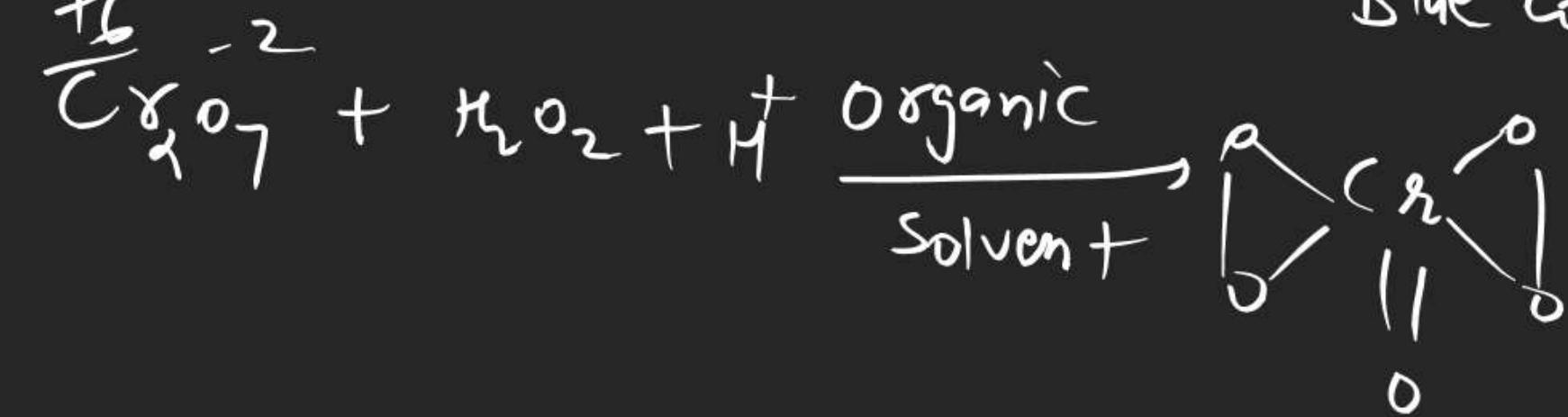
Chlor group - II

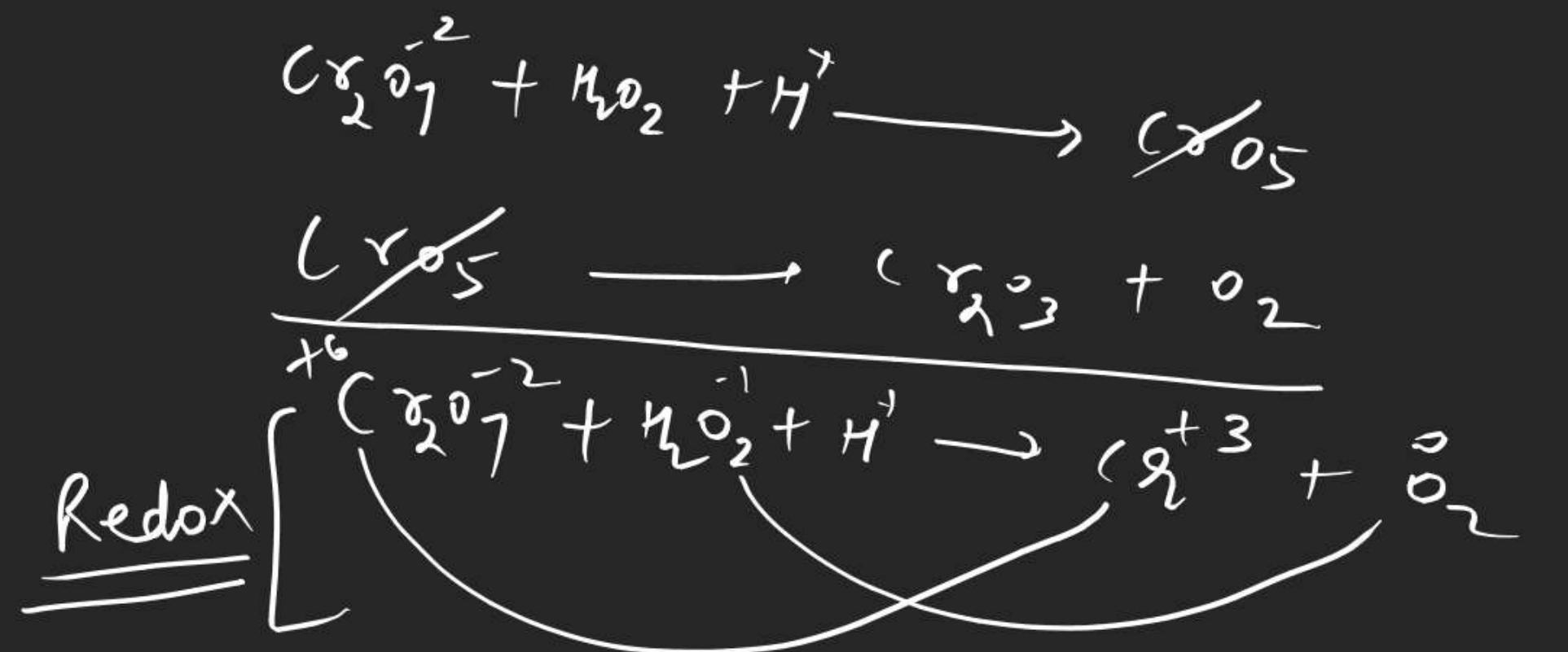


Test with MnO_2 in presence of organic solvent +



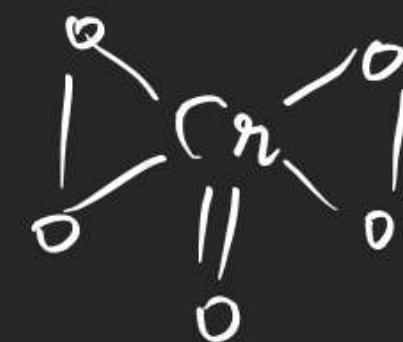
or
Blue colour



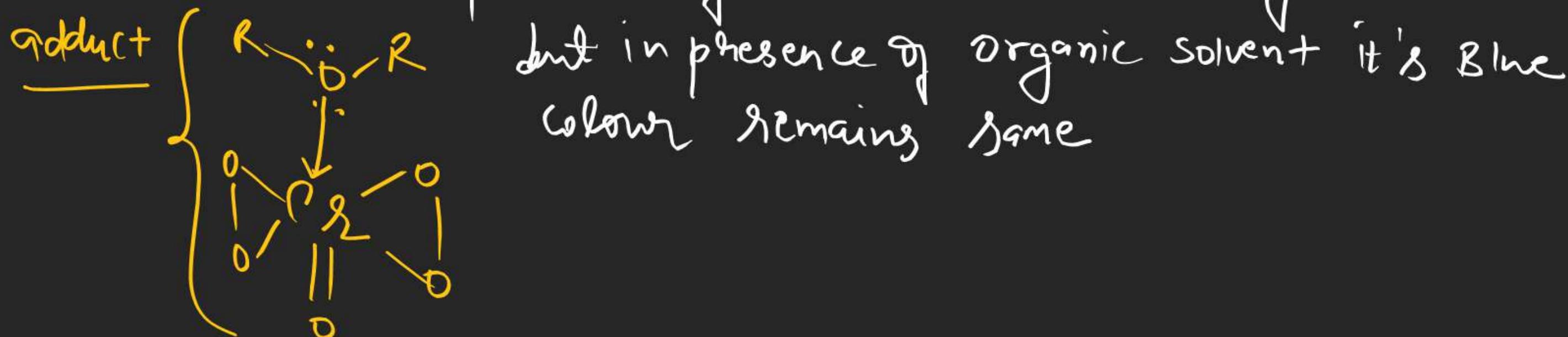


Note \Rightarrow In presence of org. solvent

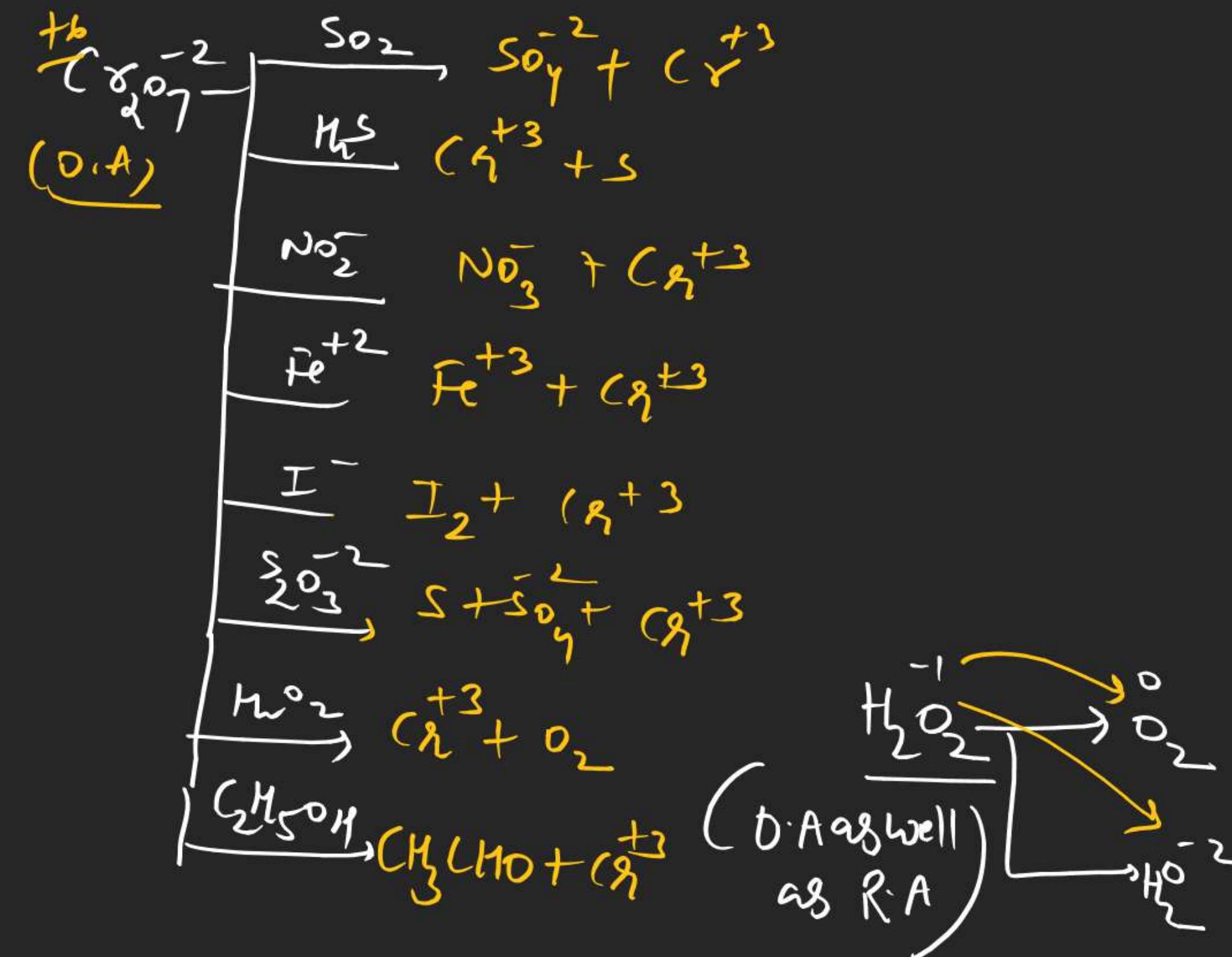
Reaction is non Redox
While in absence of reagent is Redox



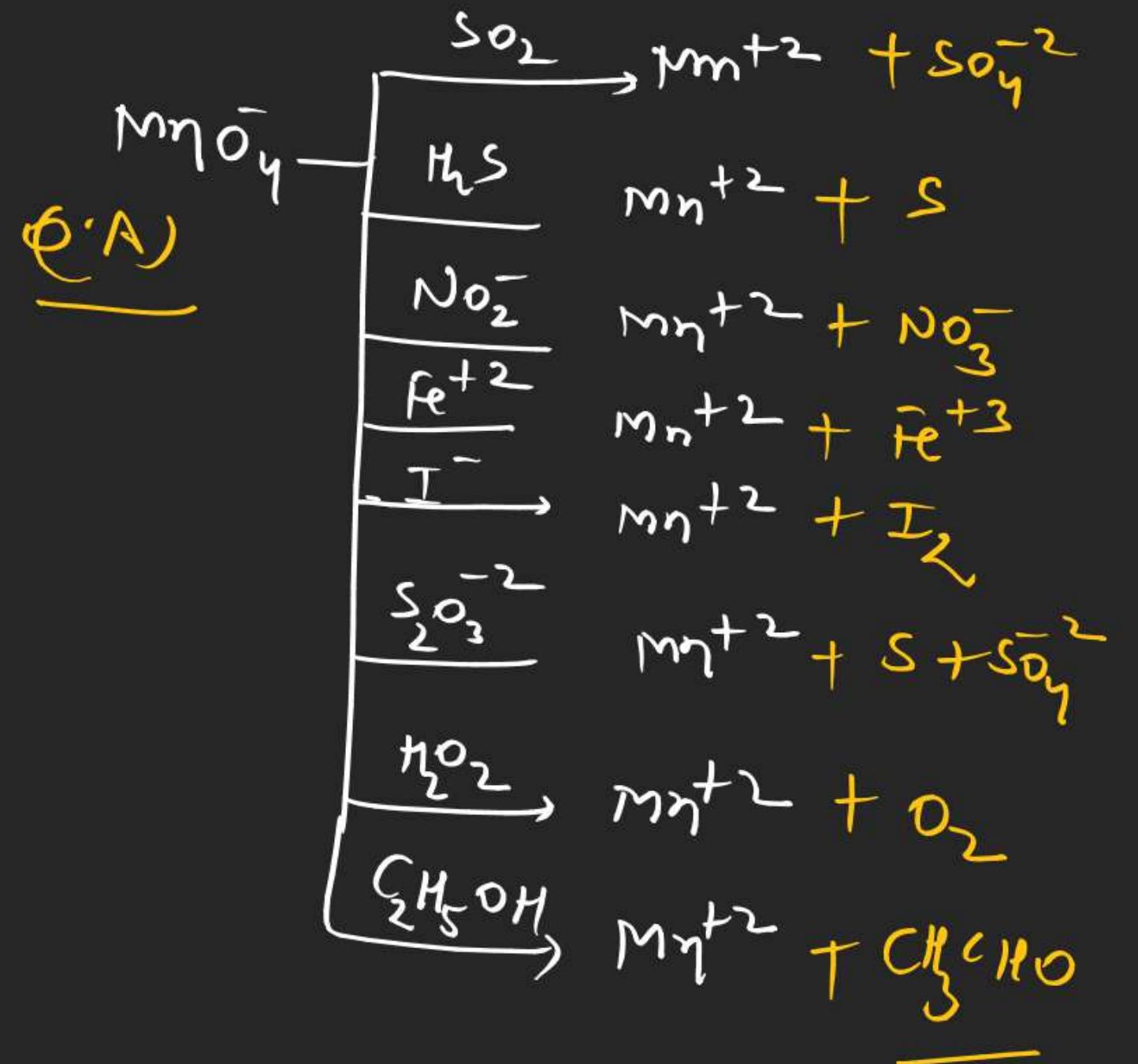
CrO_5 is blue colour compound and it's blue colour fades always in aqueous solution due to presence of two three memb. Ring



$(C_5H_{11}OH)$
Note \Rightarrow Now-a-days amylo alc. is used
in place of dimethyl ether
because it is highly flammable



MnO₄⁻ \Rightarrow all are soluble

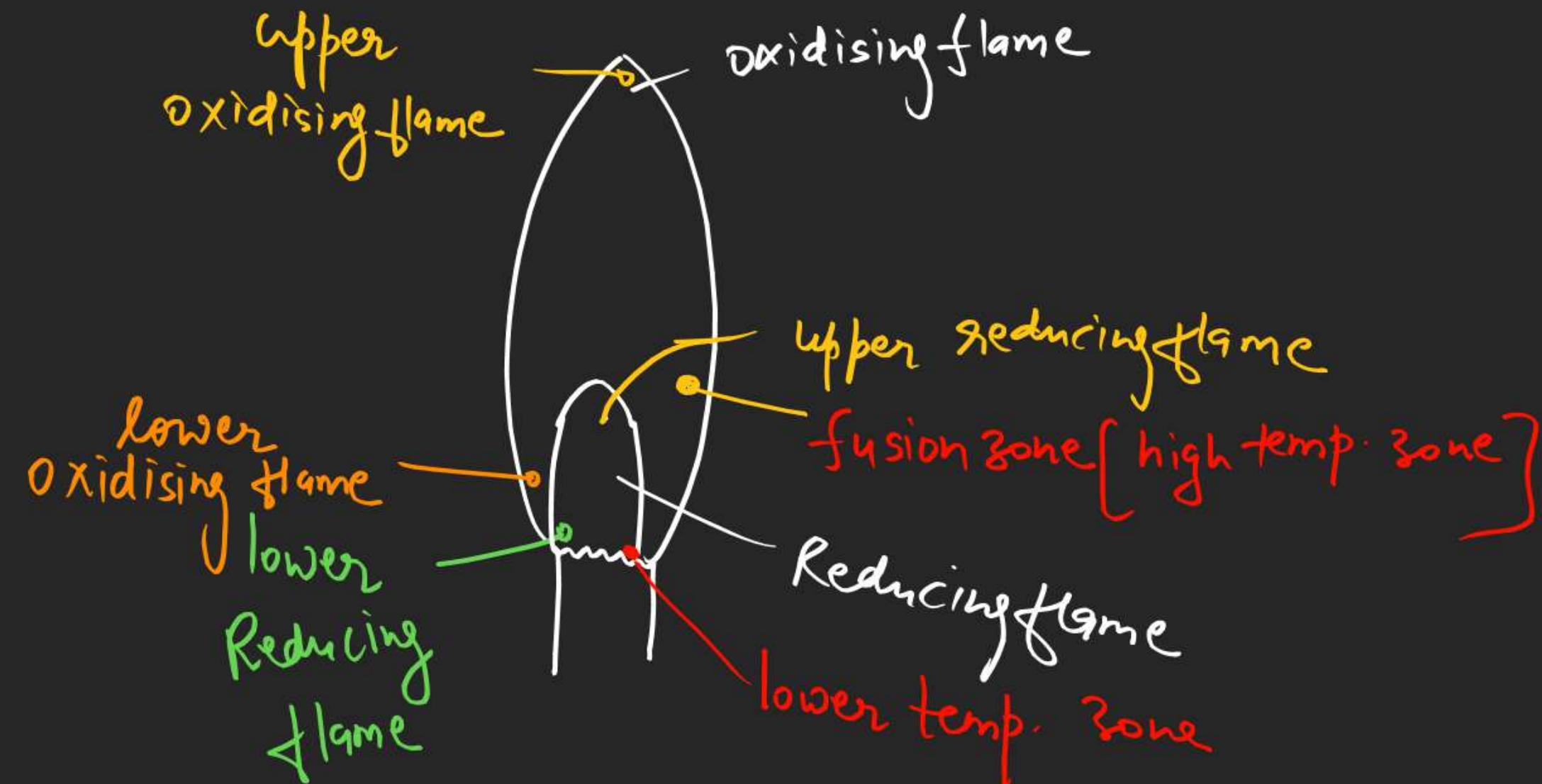


Cation

Dry test Wet test

- flame test +
- Borax bead test +
- phosphate bead test +
- Sodium carbonate bead test +
- Cobalt nitrate Charcoal cavity test +.

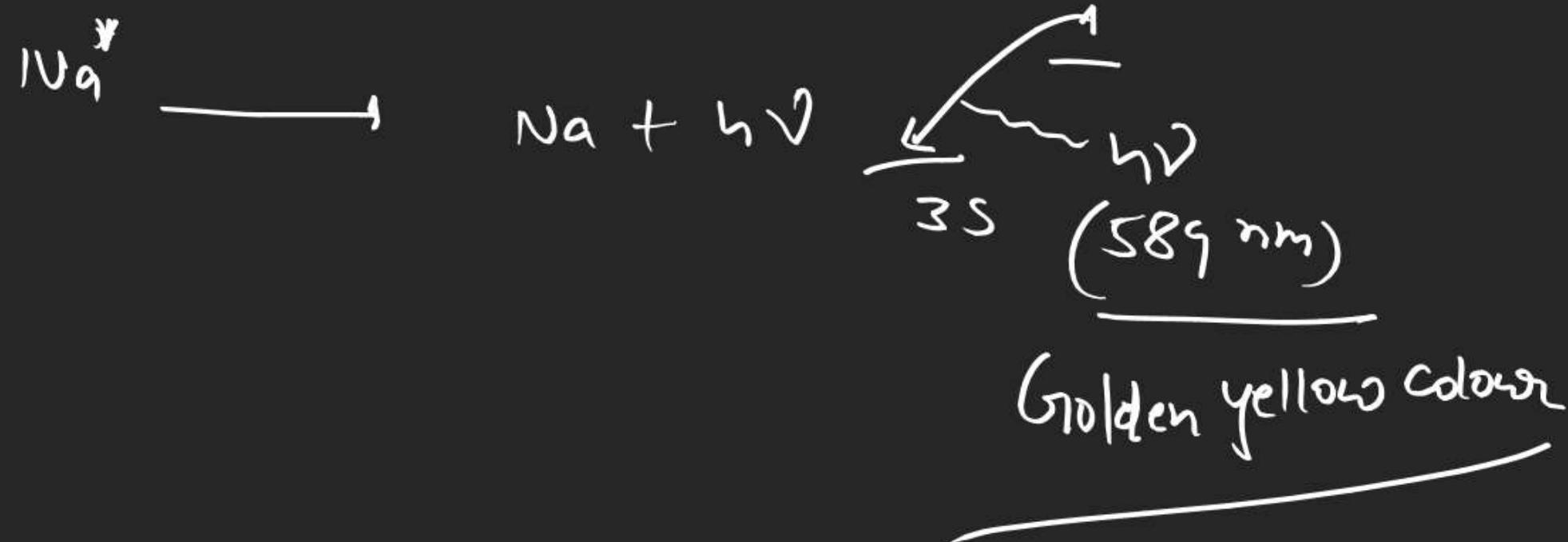
Flame test



Pt wire use for flame test
because it is inert if

Pt wire not available then
Nickel wire use

First Pt wire dipped in conc HCl and further
brought near to the given salt
so that given salt is converted in to the
corresponding to the chloride salt
because chloride salts are more volatile than
other salt.



Li = Carmine Red | Crimson Red

N₉ = Golden yellow

K = Lilac [pale violet]

R_b = Reddish violet

C_S = Blue

C₉ = Brick Red

S_r = Crimson Red

B_a = Apple green

Pb | Sn | Bi | Sb \Rightarrow Blue but

Pt wire corrode

Note \Rightarrow Be and Mg
do not give
flame test due to
their high I.E

Sometime K and Na present together

do golden yellow colour of sodium
exist long time in to the flame

and lilac colour K is not
appear, in this condition

Cobalt glass we



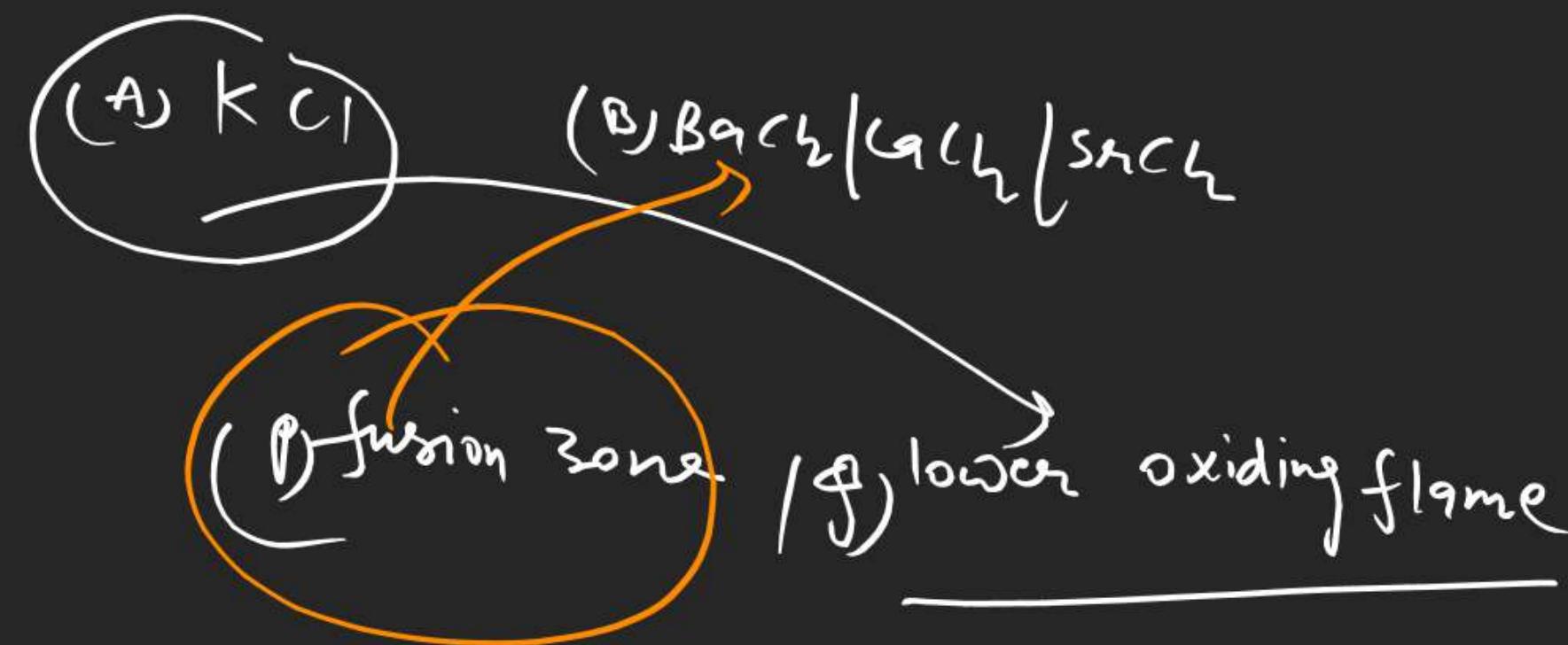
K \Rightarrow Cobalt glass colour
is crimson red



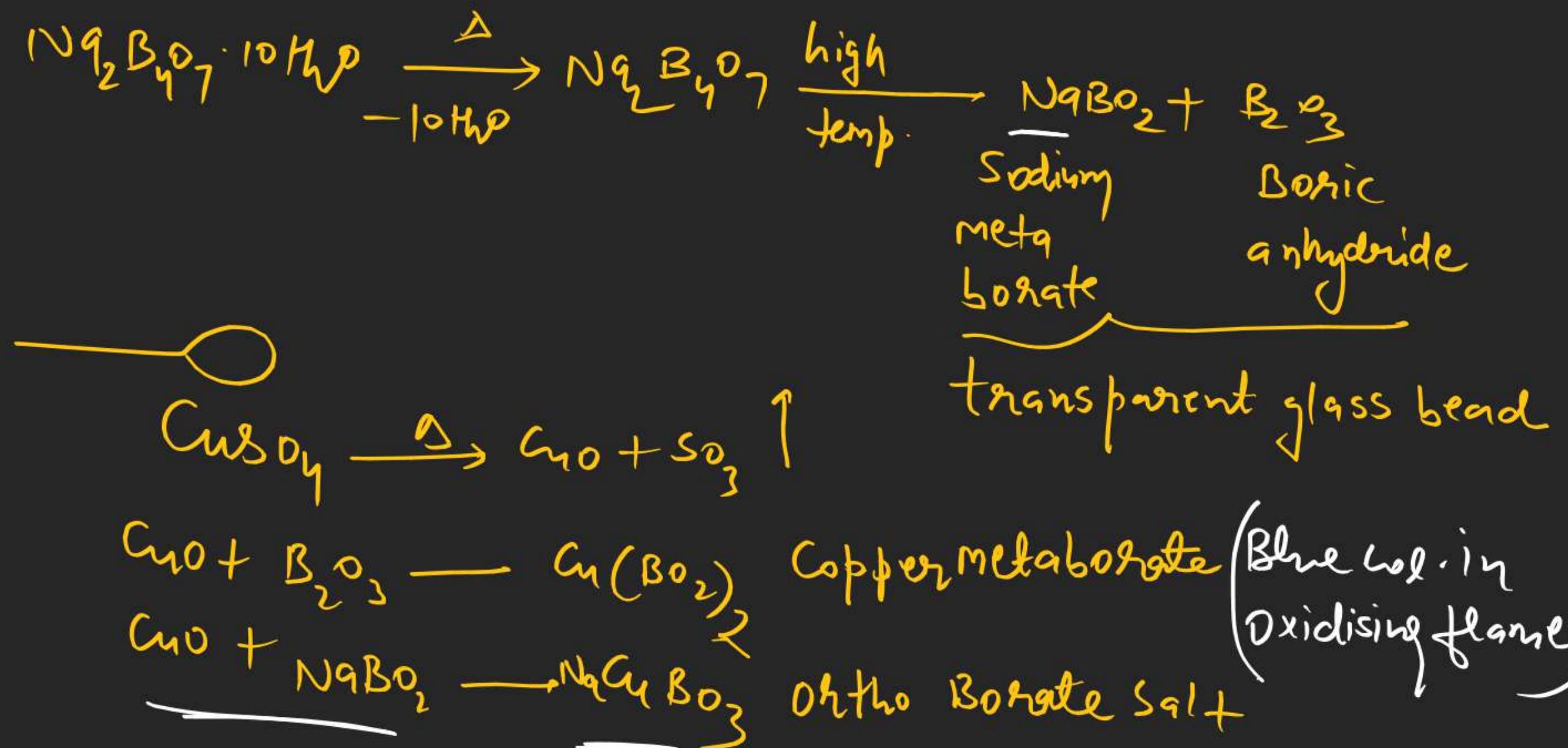
Cobalt glass (Blue glass)

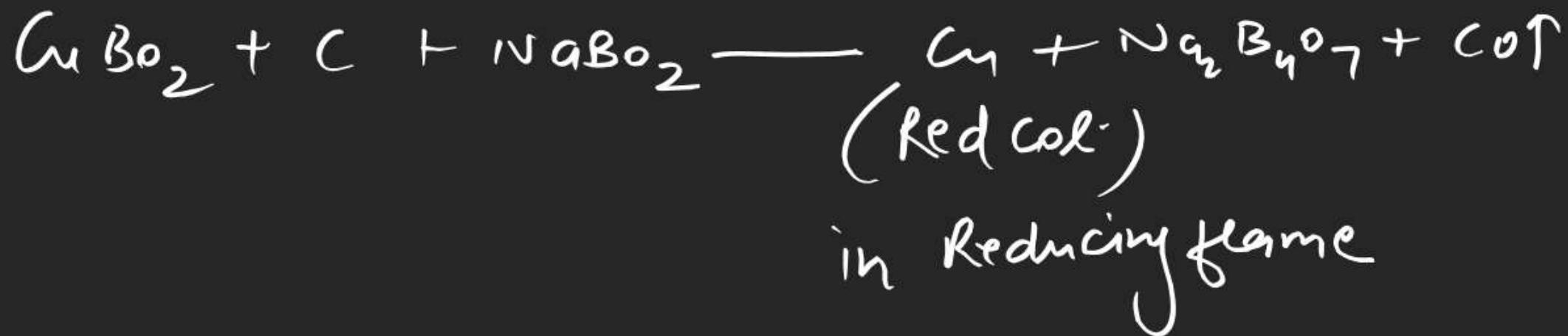
Bark Cach stack

less volatile
than KCl



Borax bead test





Co — Blue colour

Cr — green

Mn = Amethyst
 (Light Purple / Light Pink)