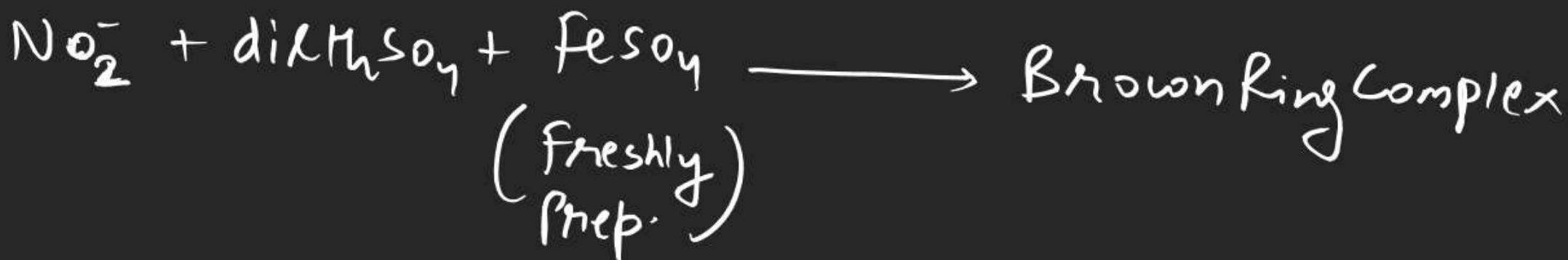


Brown Ring test



sp^3d^2 , para, outer, $\mu = 3.87$

$\bar{\nu} = +1$, $\text{NO} = \text{five}$

Ques 10 Why freshly Prep. Feso₄ use?

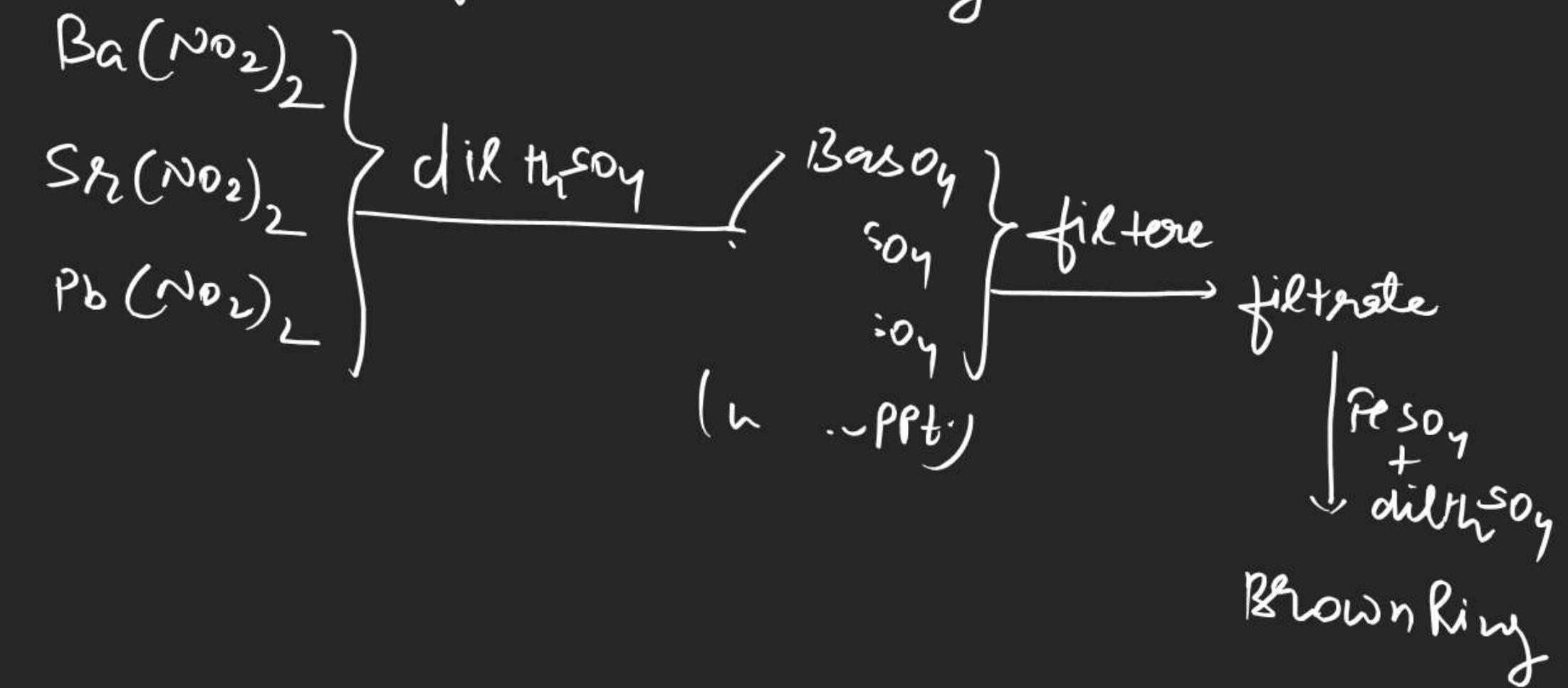
Ans \Rightarrow Feso₄ is good absorber of NO

Feso₄

Ques Why dil H₂SO₄ added by the side wall of the test tube?



if Brown ring test + perform by mixture

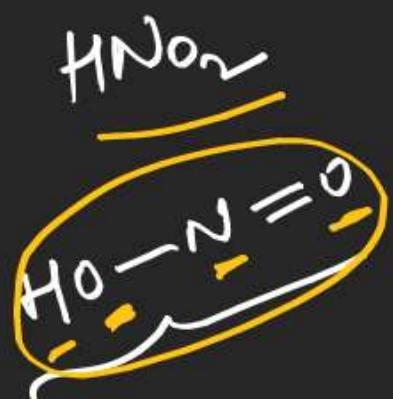


Test with KI



Test based on HNO_2

① Test with Urea -

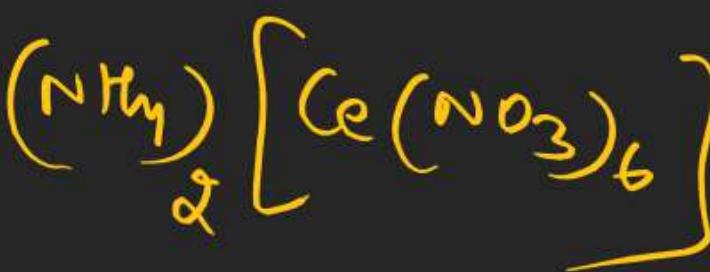
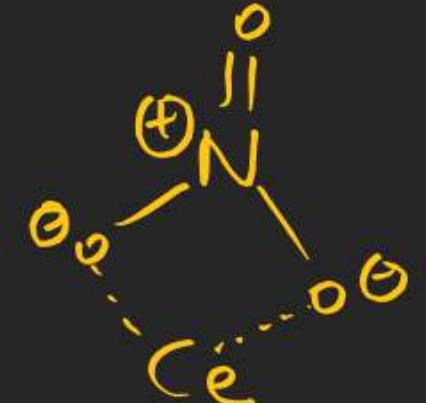


② Test with R-NH_2 →



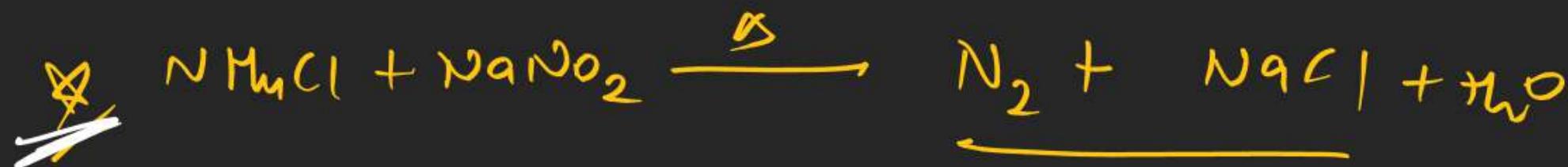
↓ Ceric ammonium nitrate
 $(\text{NH}_4)_2[\text{Ce}(\text{NO}_3)_6]$

Red sol.

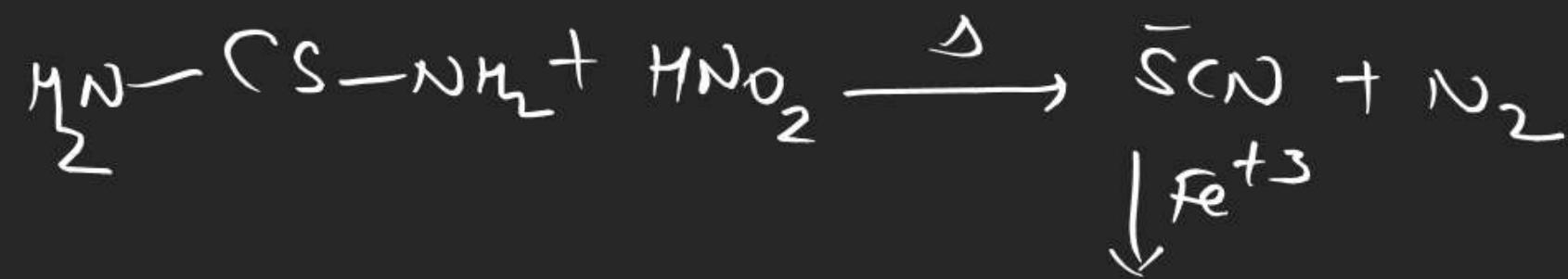
oneC.N of Ce in Cerous ammonium
nitrate

$$\boxed{Ce^{+4} \text{ C.N} = 12}$$

Test with NH_4Cl and NaNO_2



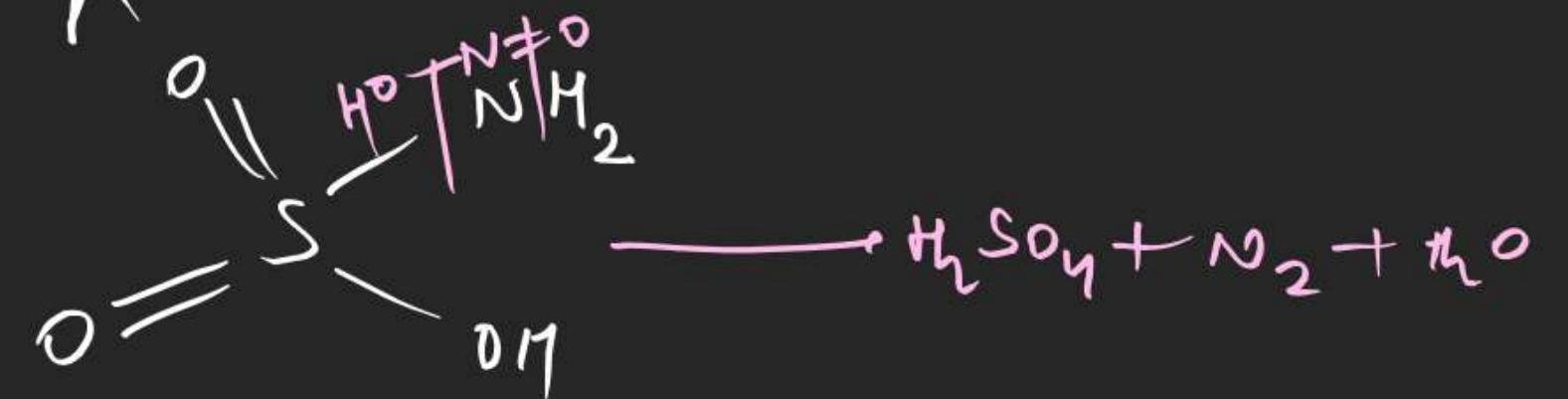
Test with Thio urea



Thio cyamate and Iodate must
be present

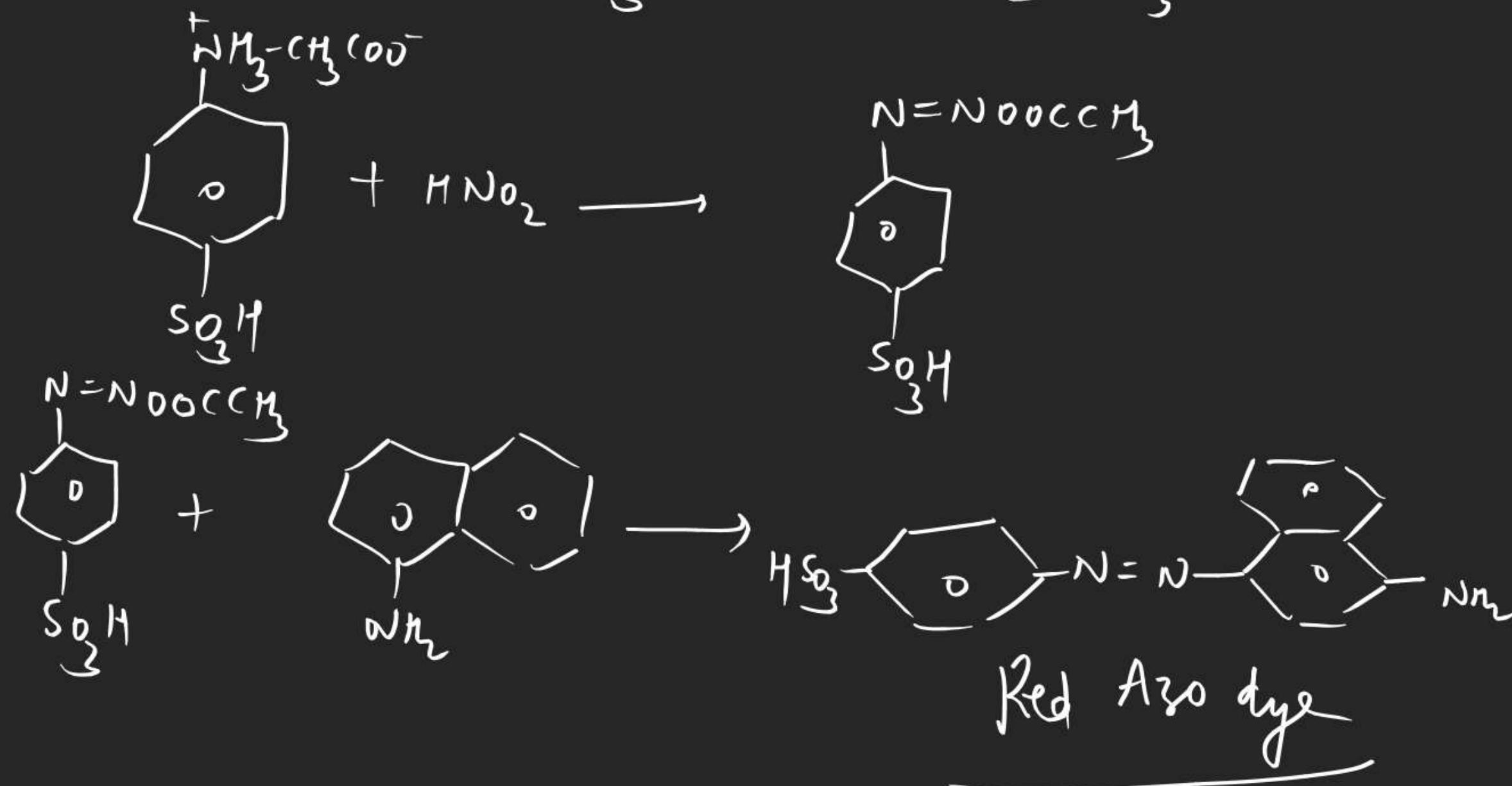
Blood Red Col.

* Test with Sulphamic acid



Note \Rightarrow In other reactions traces of NO_3^- also formed except sulphamic

Griess-Ilosay test



Class - A

Sub group - II

① NO_3^- all are soluble

② Test with acid



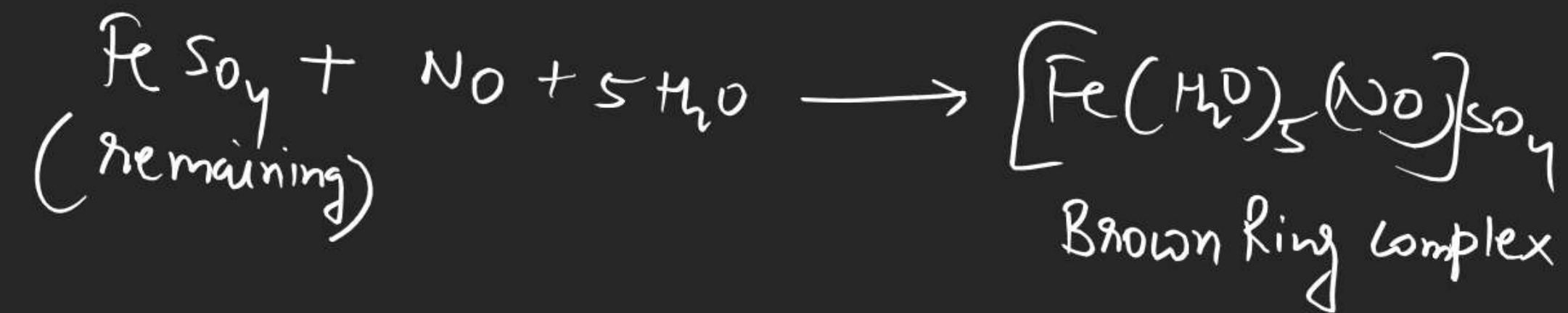
OR

Cu turnings

(brown fumes)

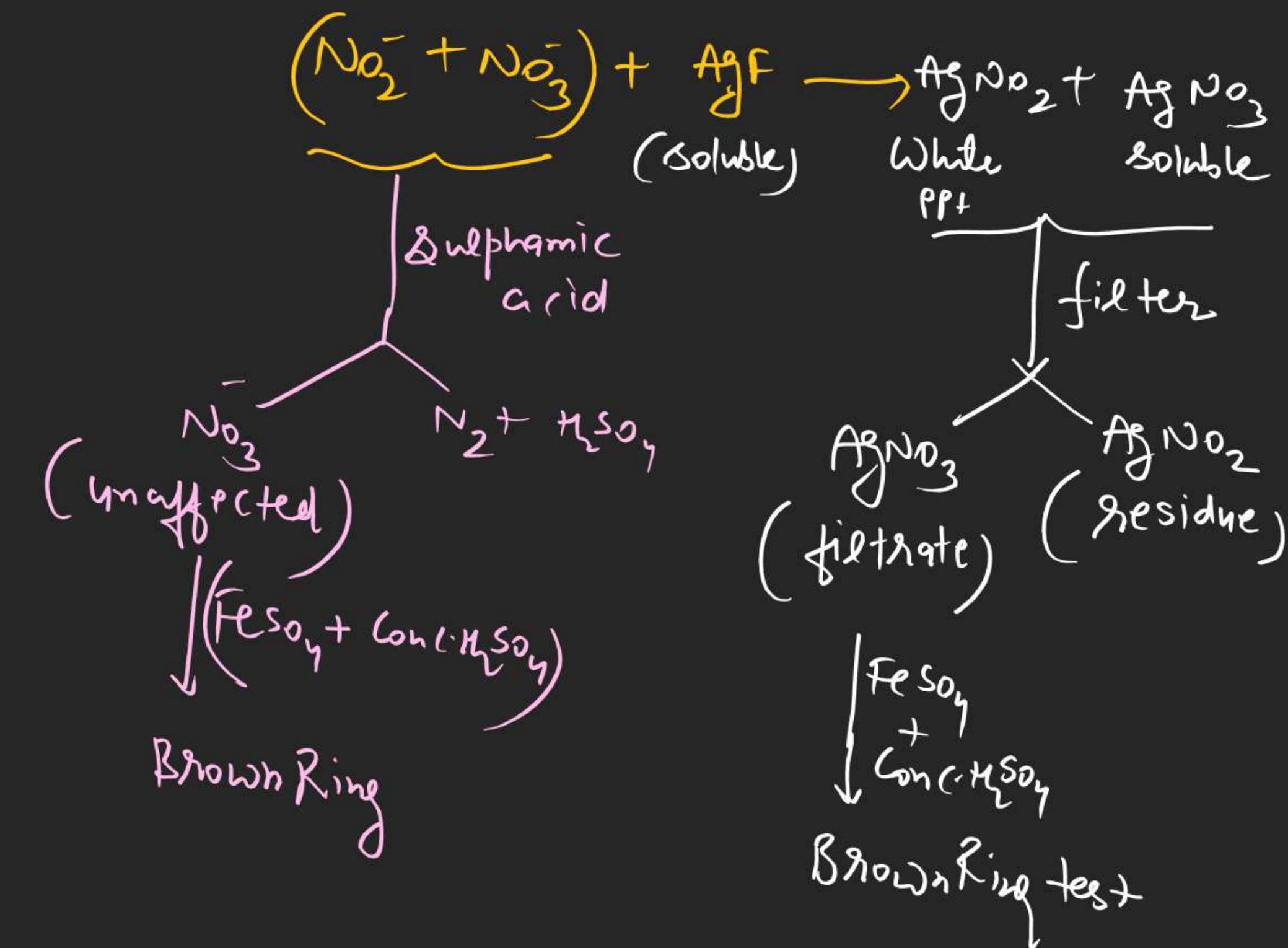


Brown Ring Test

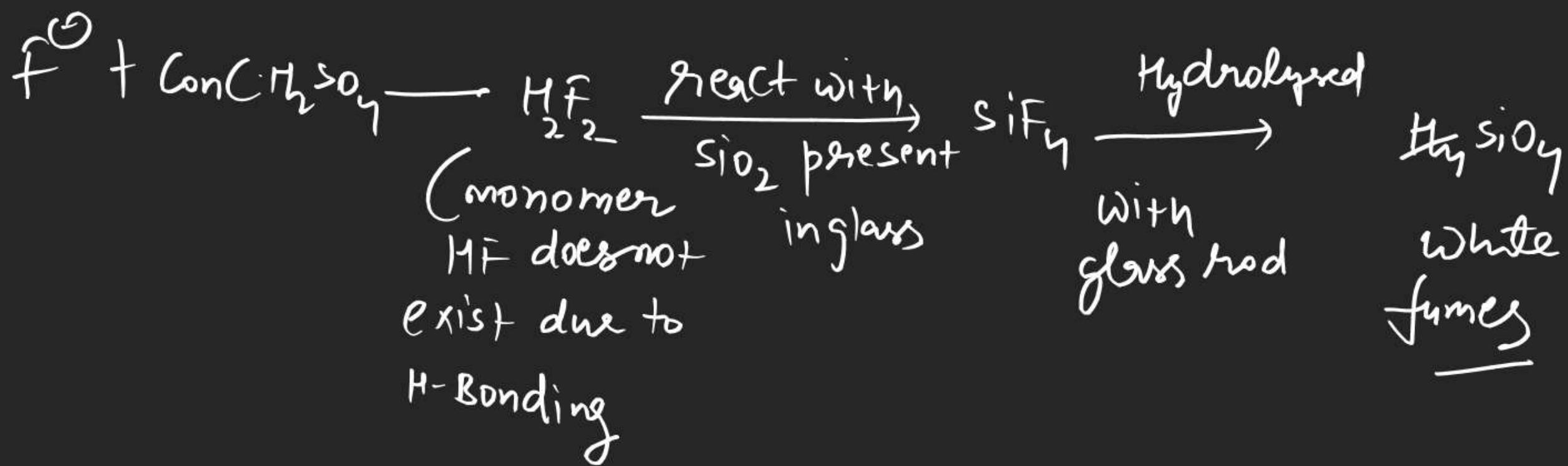


Ques Can we perform brown rings NO_2^- in presence of NO_3^- ^{for}
Yes by using dil H_2SO_4

Ques Can we perform brown Ring test for NO_3^- in presence of NO_2^-
Not, because in presence of conc H_2SO_4
both can perform.

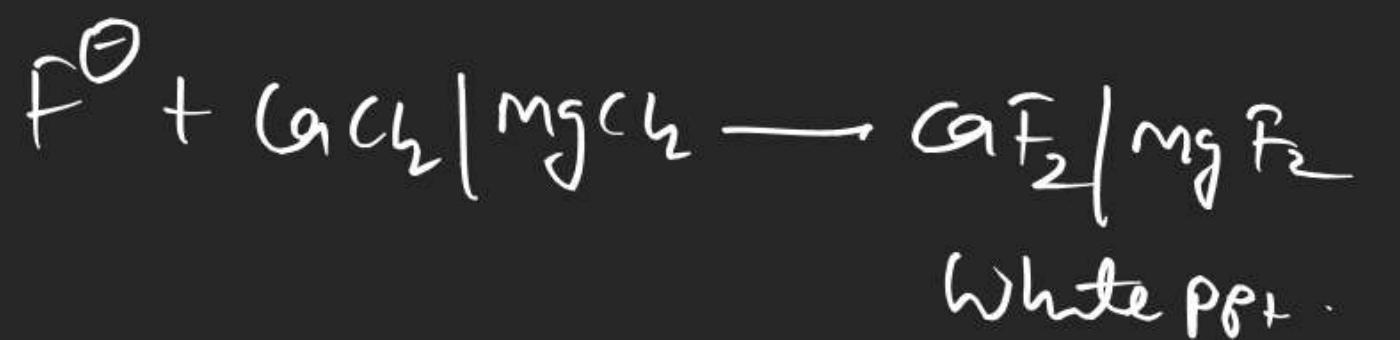


F[⊖] = all are insoluble except
BeF₂ and AgF ⇒
Test with acid [etching test]



Note ⇒ HF can not kept in glass because it can corrode so it is kept in wax coated glass vessels

Test with $\text{CaCl}_2/\text{MgCl}_2$



Test with FeCl_3

