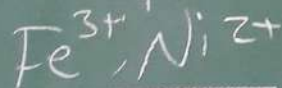
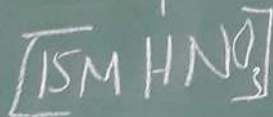
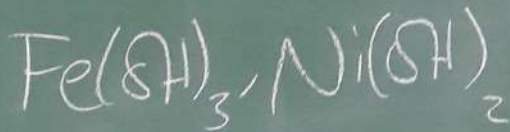
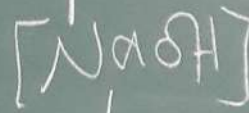
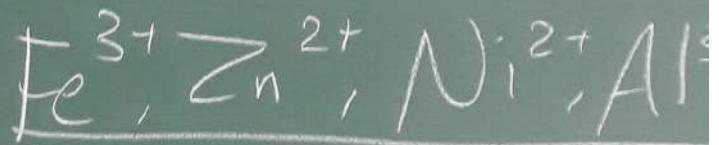


Sub group
(A)

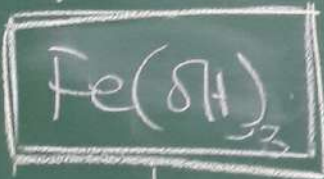


ISM.

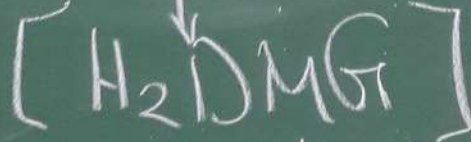


excess to form a complex with Ni^{2+}

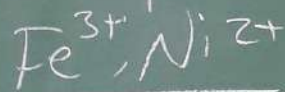
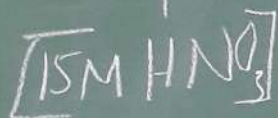
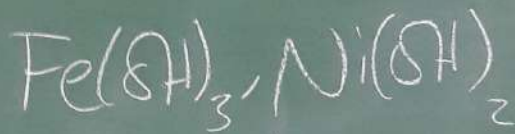
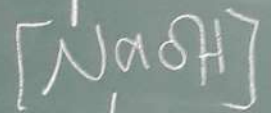
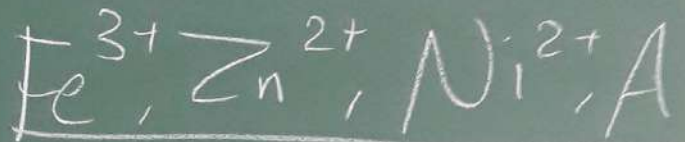
brown ppt



light blue



Sub group
A

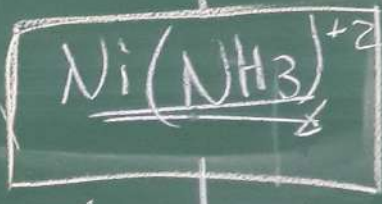


ISM.



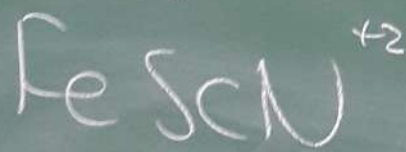
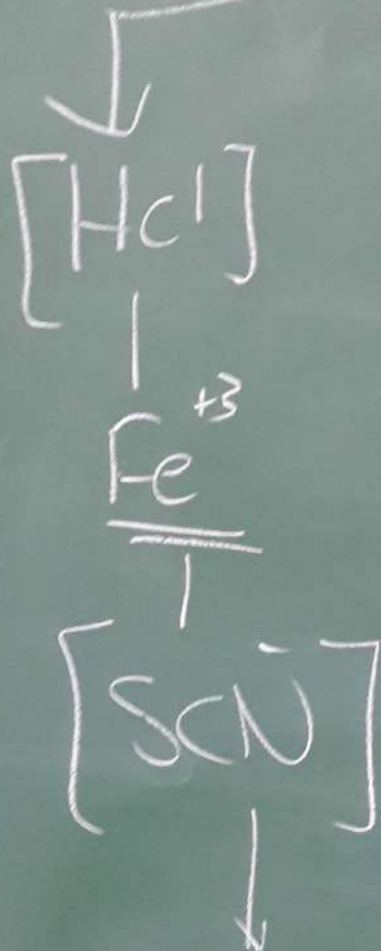
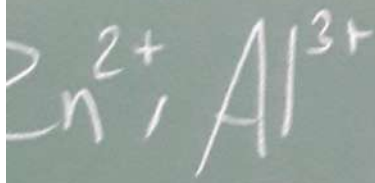
excess to form a complex with Ni^{2+}

brown ppt



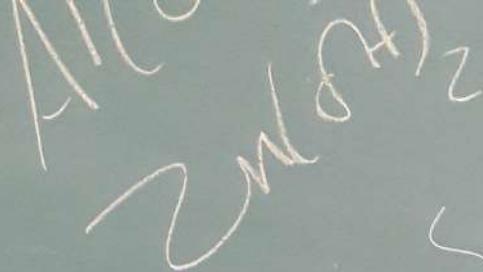
light blue



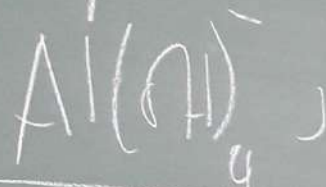


blood-red complex

strong base



sub g



white
gelatinous

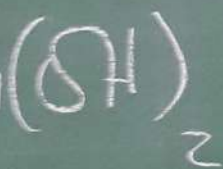
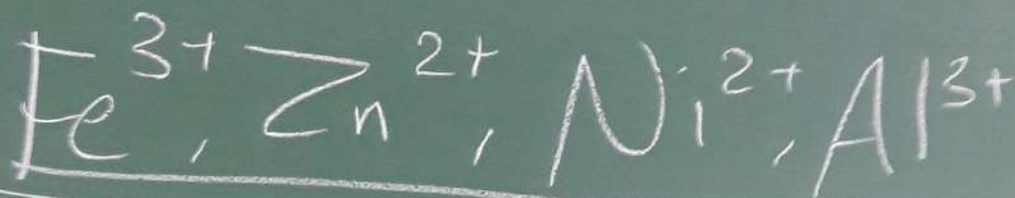


blue

red ppt

[NH₃, Aluminum reagent]

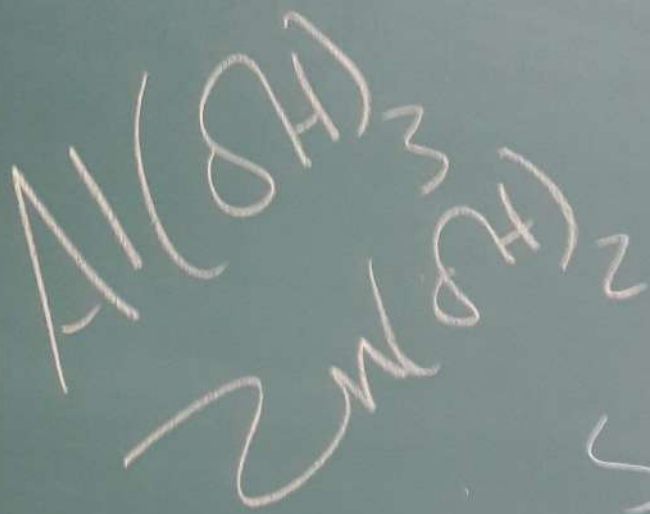




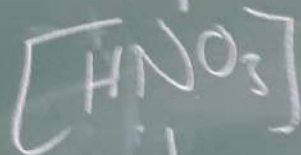
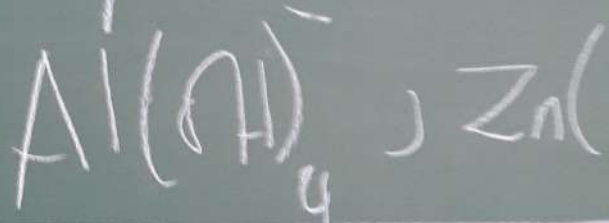
excess to form a complex with Ni^{2+}

light blue

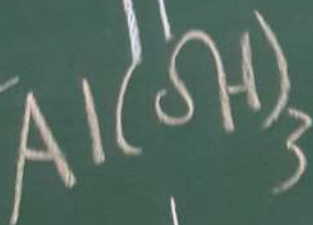


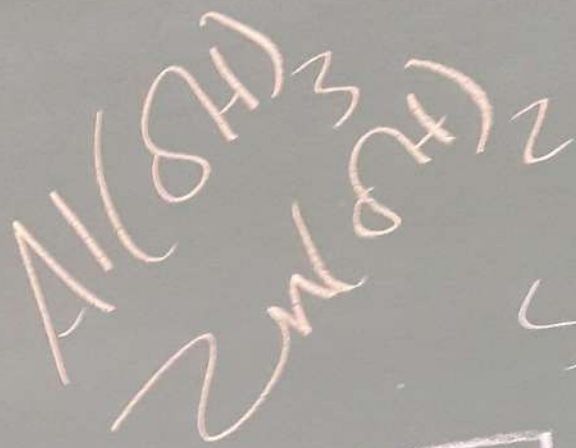


Sub group (B)

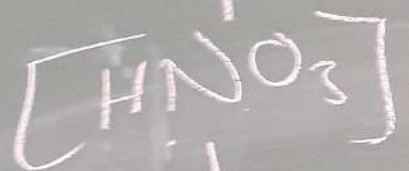
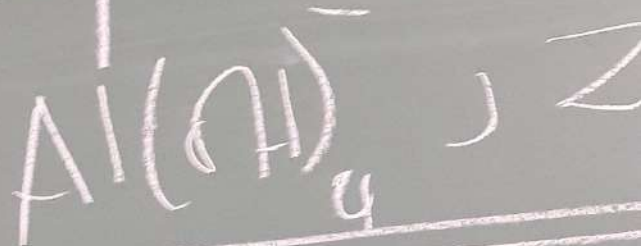


amphoteric

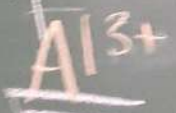
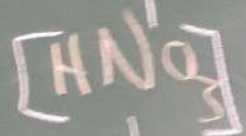
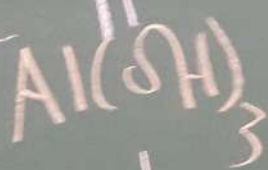




sub group (B)



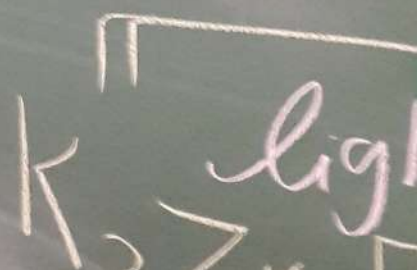
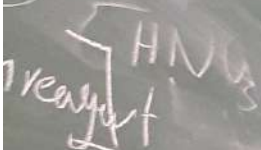
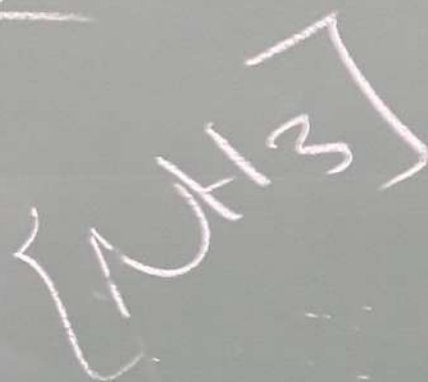
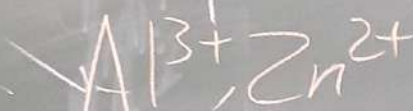
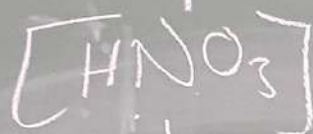
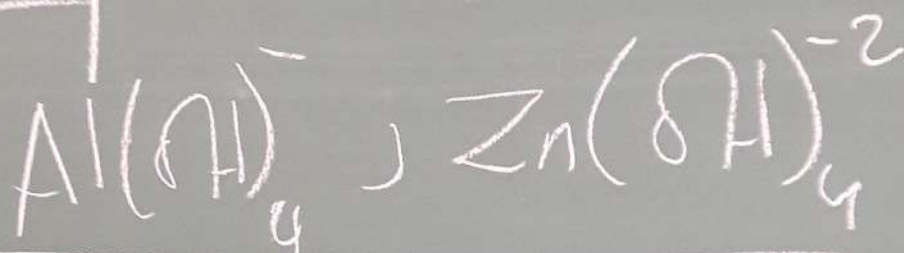
white gelatinous



$[\text{NH}_3, \text{Aluminum reacts}]$

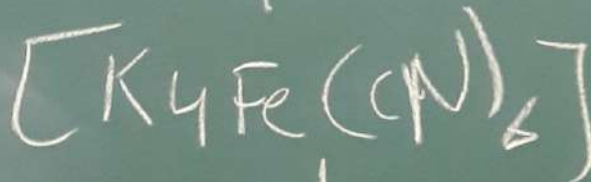
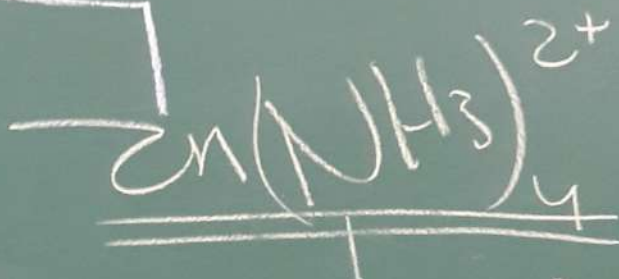


8x12
sub group (B)

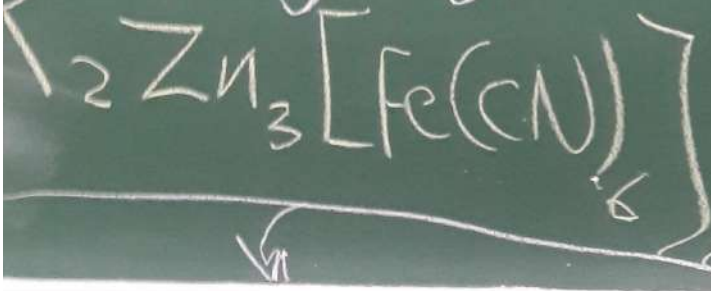


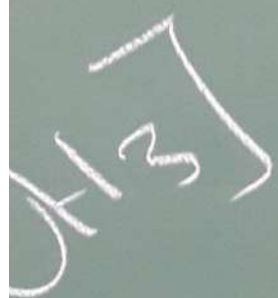
3

addition of
 $K_4Fe(CN)_6$ to an
acidic sol.

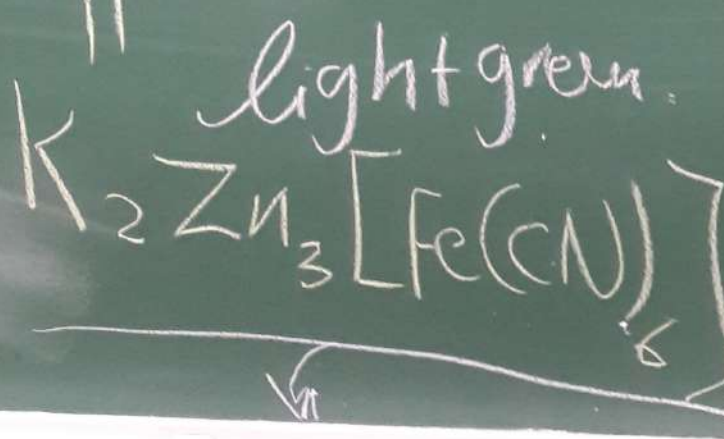
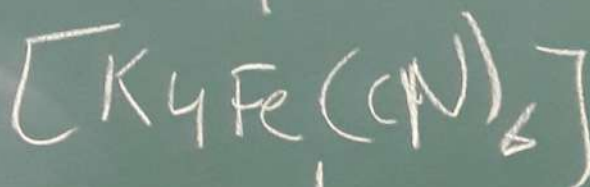
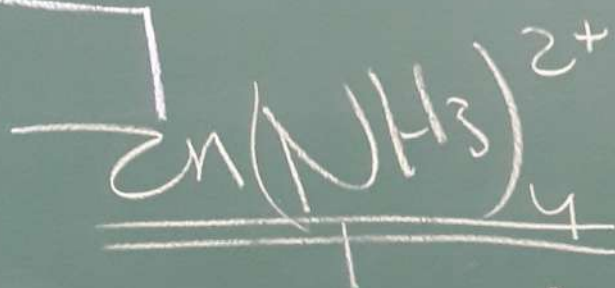


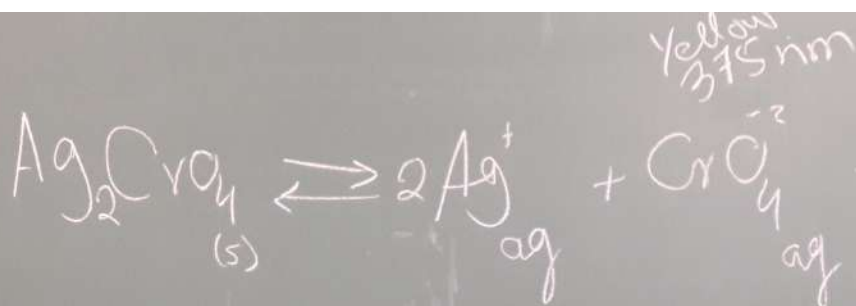
light green.





addition of
 $K_4Fe(CN)_6$ to an
acidic sol





$$K_{sp} = [\text{Ag}^+]^2 [\text{CrO}_4^{2-}]$$



- moles $(I)_{CrO_4} \rightarrow$ (table)
- moles $al_{eq} CrO_4 = \text{conc} \times \frac{10}{1000}$
- moles of CrO_4^{2-} ppt = $\left[\text{moles}(I) - (\text{moles } al_{eq}) \right]$

moles $Ag^+(I)$ table.

$$\text{moles } Ag^+(\text{ppt}) = 2 \text{ moles } CrO_4^{2-} (\text{ppt})$$

$$\text{moles } Ag^+ al_{eq} = \left[\text{Initial} - \text{moles of } Ag^+ \text{ ppt} \right]$$