

CHAPTER 12

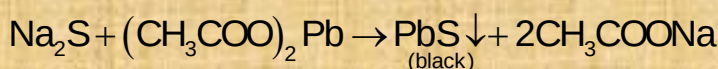
General Organic Chemistry

Qualitative analysis:

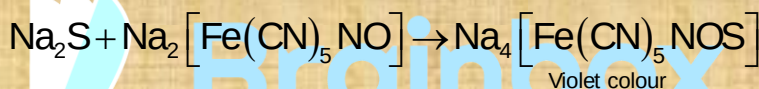
Test for Sulphur:

Sodium fusion extract is acidified with acetic acid and lead acetate is added to it.

A black precipitate indicates presence of Sulphur.



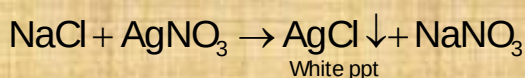
Sodium extract is treated with sodium nitroprusside. Violet colour indicates presence of Sulphur.



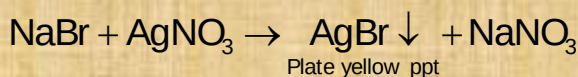
Test for halogens:

Sodium fusion extract is acidified with dilHNO_3 and AgNO_3 solution is added to it.

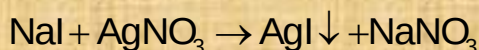
a) A white ppt, soluble in ammonium hydroxide indicates the presence of chlorine.



b) A pale yellow ppt, sparingly soluble in NH_4OH indicates the presence of bromine.



c) A yellow ppt, insoluble in NH_4OH indicates the presence of iodine.



Test for phosphorus:

Organic compound is heated with an oxidising with nitric acid and then treated with ammonium molybdate $(\text{NH}_4)_2 \cdot \text{MoO}_4$.

Yellow precipitate indicates presence of phosphorous.

