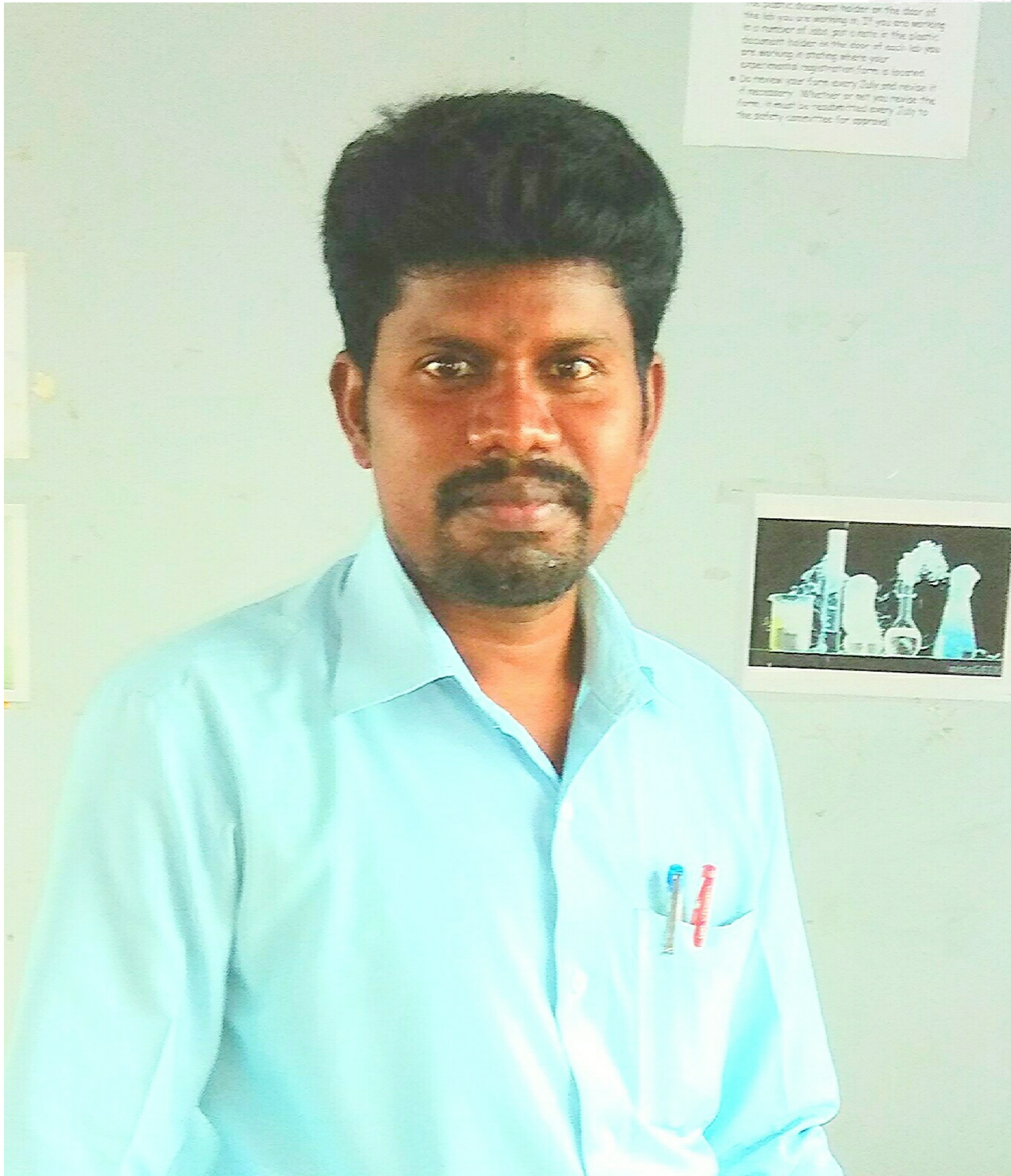
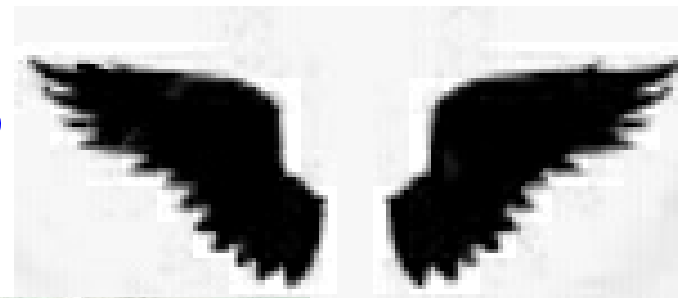


+1 AND +2 SHORT PROCEDURE OF SALT ANALYSIS

By :-

CHEMISTRY WINGS



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Preparation of Na_2CO_3 Extraction :-

1g salt + 2g Na_2CO_3 + 20ml of D. W $\xrightarrow{\Delta}$

filtered

Original solution :-

Salt + 15ml D. W (distilled water) $\xrightarrow{\quad}$

Solution



Distilled water

Salt

Gives Original solution

Hint :

S, CO_3 + dil HNO_3 $\xrightarrow{\quad}$ Solution

Salt + D. W $\xrightarrow{\quad}$ Original solution

Salt Name

1. *Lead Nitrate*

2. *Copper Sulphate*

3. *Copper Carbonate*

4. *Ferric Chloride*

5. *Aluminum Sulphate*

6. *Aluminum*

Nitrate

7. *Zinc Sulphate*

8. *Zinc Sulphide*

9. *Calcium Carbonate*

10. *Barium*

chloride

11. *Magnesium Sulphate*

12. *Magnesium Phosphate*

13. *Magnesium Carbonate*

14. *Ammonium Chloride*

15. *Ammonium Bromide*

S- Sulphide

CO₃ - Carbonate

Full Form

BASIC RADICAL

NH₄, Pb, Cu, Al, Zn, Ba & Ca, Mg

ACIDIC RADICAL

CO₃, S, Cl, SO₄, NO₃

BASIC RADICAL

0 Group :- NH₄ (Ammonium)

O.S + Nessler's Reagent + NaOH ----->

Reddish Brown ppt

1 Group :- Pb (Lead)

O.S + KI -----> Golden Yellow

2 Group :- Cu (Copper)

O.S + K₂Fe(CN)₆ -----> Brown ppt

3 Group :- Al (Aluminum)

O.S + NH_4OH + Aluminon -----> *A*

Bright red lake

4 Group :- Zn (Zinc)

O.S + $K_2Fe(Cn)_6$ -----> *White ppt*

5 Group :- Ba & Ca (Barium & Calcium)

Ba :

O.S + $K_2Cr_2O_4$ -----> *Yellow ppt*

Ca :

O.S + NH_4OH + Ammonium Oxalate -----> *White ppt*

6 Group :- Mg (Magnesium)

O.S + Magneson -----> *Blue ppt*

ACIDIC RADICAL

SO₄ :- (Lead acetate & Barium chloride)

Lead acetate:

Ext + dil CH₃COOH + 1ml Lead acetate -- - ->

White ppt (Ammonium Acetate dissolved)

Barium chloride :

Ext + dil HCl + 1ml BaCl₂ -----> White ppt

(H₂SO₄ not dissolved)

NO₃:- (Cu turning test & Brown ring test)

Cu turning test:

Salt + Cu turning + H₂SO₄ ----->

Reddish Brown

Brown ring test:

Ext + HNO₃ + F.S + H₂SO₄ ----->

Brown ring

Cl₂ :- (Chromyl Chloride & Silver nitrate)
Chromyl Chloride :

Salt + K₂Cr₂O₇ + Con H₂SO₄ -----> Orange

gas evolves

Silver nitrate :

Ext + HNO₃ + AgNO₃ -----> White ppt curdy

(Ammonium Hydroxide dissolved)

S:- (Lead acetate & Silver nitrate)

Lead acetate :

Ext + dil CH₃COOH + Lead acetate - - - ->

Black ppt

Silver nitrate :

Ext + HNO₃ + AgNO₃ -----> Black ppt

CO₃:-

S, CO₃ + dil HNO₃ -----> Solution