

Puspa Shrestha

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Puspa Shrestha

EXPERIMENT NO. 12

NAME OF EXPERIMENT: TO IDENTIFY THE ACID RADICAL FROM THE GIVEN SAMPLE OF SALT (S_2)

APPARATUS REQUIRED

1. Test tube
2. Test tube holder
3. Brush

CHEMICAL REQUIRED

1. $BaCl_2$
2. Cu (Copper turning)
3. $AgNO_3$
4. NH_4OH
5. HCl
6. H_2SO_4
7. $FeSO_4$

THEORY

Acid radical is the ion formed after the removal of hydrogen ion (H^+) from an acid.

Example: When H_2SO_4 losses H^+ ion, it form, $H_2SO_4^-$ which is an acid radical.

OBSERVATION

Dry Tests

Experiment	Observation	Inference
1. In a clean and dry test tube, a pinch of salt was taken and dil. HCl was added.	1. No gas was seen.	1. Presence of CO_3^{--}
2. Salt + conc. H_2SO_4	2. No gas was seen	2. Absence of halogens

3. Salt + conc. H_2SO_4 + copper turning

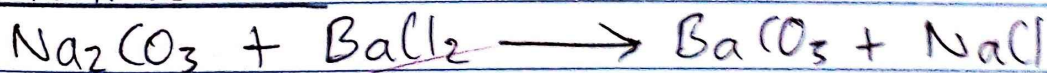
3. No brown fume was seen.

3. Absence of NO_3^-

Wet Test:

Experiment	Observation	Inference
1. In a clean test tube 2 ml of salt solution was taken and $BaCl_2$ was added. (If ppt appeared add dil. HCl)	1. White ppt was appeared which was insoluble in dil. HCl .	1. Presence of CO_3^{2-} was confirmed.
2. Salt solution + $AgNO_3$ (If ppt appeared then add NH_4OH)	2. No ppt was seen.	2. Absence of halogens
3. Salt solution + conc. H_2SO_4 + $FeSO_4$	3. No ring was formed.	3. Absence of NO_3^-

Reaction involved:



(white ppt)



RESULT

Acid radical was found in the given sample of salt (G_2).

~~12/20~~