

Puspa Shrestha

Best Quality Resource Site for Class 11 And 12
Students (Based on Updated Curriculum 2077)



PDF Collections

Notes

Books

Model Questions

This PDF was downloaded
from **puspas.com.np**

Visit our website for more
materials.



puspas.com.np

Follow us on:



AR Dinesh



puspas.com.np



Puspa Shrestha

EXPERIMENT NO. 8

NAME OF EXPERIMENT: TO IDENTIFY ACID RADICAL PRESENT IN GIVEN SALT SAMPLE (S_2).

APPARATUS REQUIRED

1. Test tube
2. Test tube holder
3. Burner

CHEMICALS REQUIRED

- | | | |
|----------------|-------------|--------------------|
| 1. Salt sample | 2. Dil. HCl | B. Conc. H_2SO_4 |
| 4. HNO_3 | 5. $BaCl_2$ | G. $AgNO_3$ |
| 7. $FeSO_4$ | | |

THEORY

A radical may be defined as a group of atom having positive or negative charge and behave as a single unit in chemical changes. The electronegative radical which comes from an acid is called acid radical. In ether the radical of the acid other than H^+ ion is called acid radical. Eg: Cl^- , Br^- , etc.

The chemical substances which is formed by the partial or complete displacement of hydrogen with metal is salt. Eg: $NaCl$, KCl , etc.

OBSERVATION TABLE

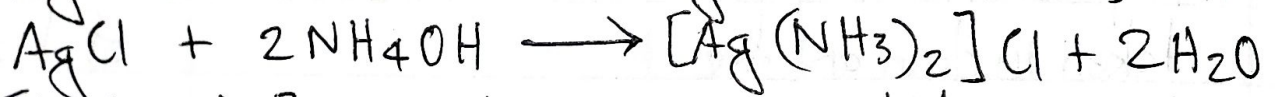
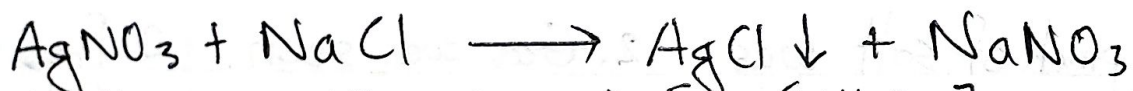
(i) Dry Test

Experiment	Observation	Inference
1. A pinch of salt was taken in clean and dry test tube and HCl was added and warmed.	1. No gas was seen.	1. Absence of CO_3^{2-} , SO_3^{2-}
2. A pinch of salt was taken in clean and dry test tube and conc. H_2SO_4 was added.	2. Gas was seen.	2. Presence of halogen.
3. A pinch of salt was taken in a test tube and conc. H_2SO_4 was added and copper turning was added and heated.	3. No brown ring was seen.	3. Absence of NO_3^-

(ii) Wet Test

Experiment	Observation	Inference
1. Salt sol ⁿ was taken and BaCl_2 was added in it (if ppt was appeared dil. HCl was added).	1. No ppt was formed.	1. Absence of SO_4^{2-} , CO_3^{2-}
2. Salt sol ⁿ was taken	2. White ppt was	2. Presence of

TEST REACTION



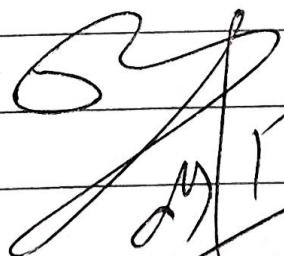
in a test tube and dil. HNO_3 was added. Sol ⁿ was warmed and cooled and AgNO_3 was added.	formed.	Cl^-
3. Salt solution was taken and FeSO_4 and conc. H_2SO_4 was added.	3. No brown ring was seen.	3. Absence of NO_3^- .

RESULT

From the given sample (S_2), presence of halogen (Cl) was found.

PRECAUTIONS

1. All the glasswares should be handled carefully.
2. The process of drying test tube should be done carefully.
3. The chemicals should be used carefully.


 29/18