

Puspa Shrestha

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Puspa Shrestha

EXPERIMENT NO. 15

NAME OF EXPERIMENT: TO IDENTIFY BASIC RADICAL PRESENT IN GIVEN SALT SAMPLE

APPARATUS REQUIRED

1. Test tube
2. Test tube holder
3. Bunsen

CHEMICAL REQUIRED

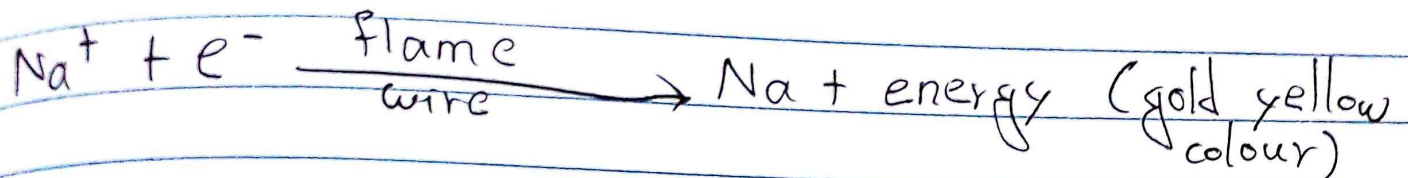
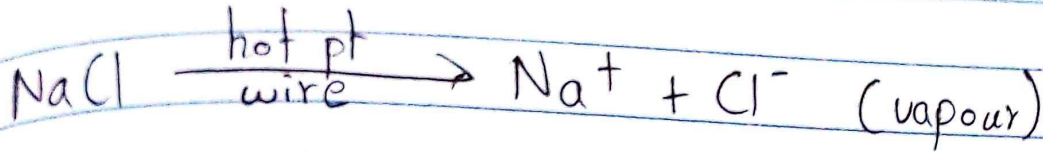
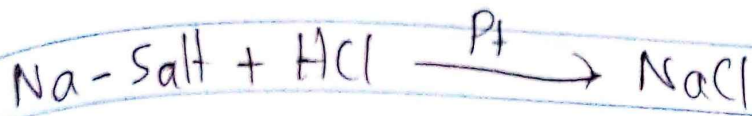
1. Salt
2. conc. HCl

OBSERVATION

Dry test:

Experiment	Observation	Inference
1. A pinch of salt was taken in a clean and dry test tube and heated.	1. i) Salt produce crackling sound ii) The colour of salt remained same	1. Salt may contain Na^+ , K^+ radicals
2. Flame test was performed.	2. Golden yellow flame was seen.	2. Presence of Na^+
3. A pinch of salt was taken in test tube and heated.	3. Salt was same as original but infusible.	3. May be Al^{++} , Zn^{++} , Mg^{++}
4. Filter ash test was performed.	4. Blue cooler ash was obtained.	4. Presence of Al_3^+

TEST REACTION



RESULT

Hence, the basic radical was identified in the given salt sample.

PRECAUTION

1. Glassware should be handled carefully.
2. Concentrated acid should be used by safety measure.