

## Compounds of Non – Metals

**Method of production and properties of some compounds of non metals which have utmost importance in the agricultural and industrial sector .**

Ammonia (  $\text{NH}_3$  )

### Experiment 1

Take a little ammonium chloride (  $\text{NH}_4\text{Cl}$  ) in a watch glass and add a little calcium hydroxide (  $\text{Ca}(\text{OH})_2$  ) to it.

Stir well.

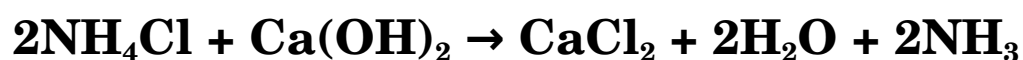
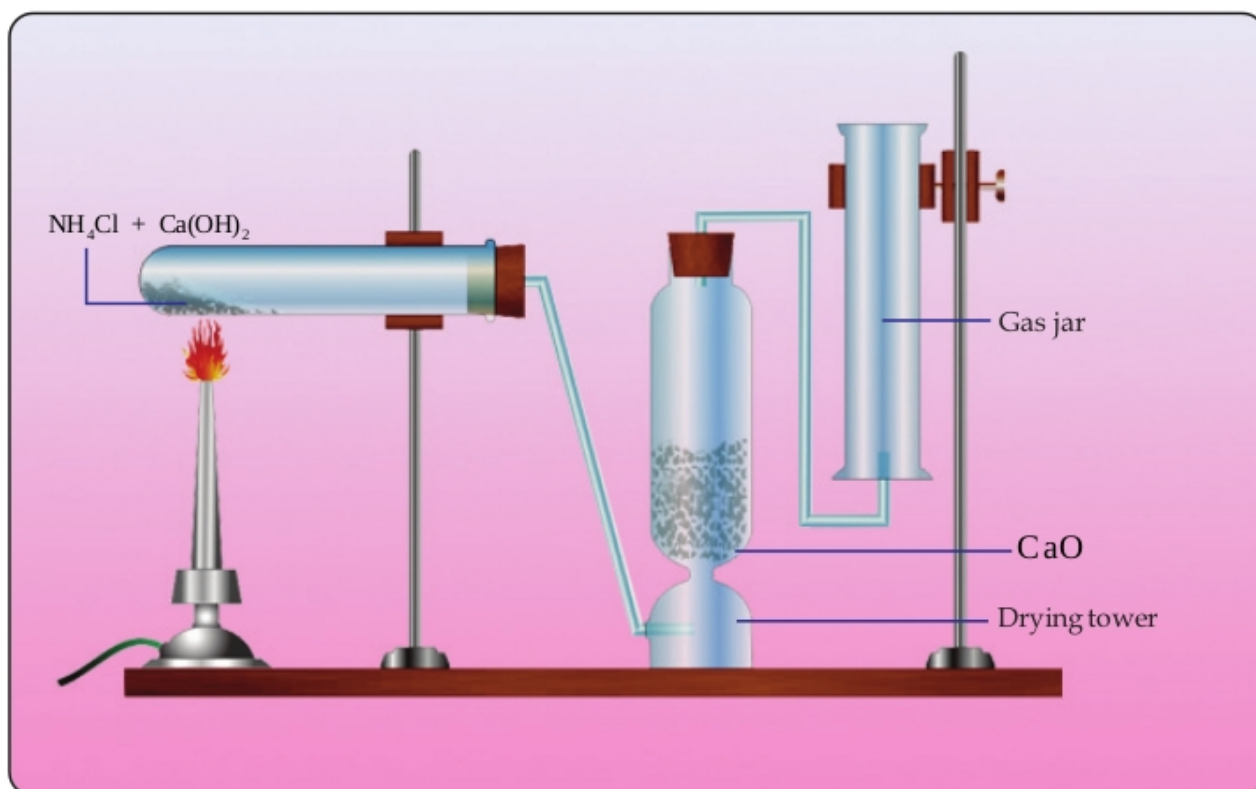
Ammonia gas comes out.

It has pungent smell .

It converts wet red litmus blue

It has basic nature

## Preparation of ammonia in the laboratory



**It is passed through a drying tower containing quick lime ( $\text{CaO}$ ) to remove the moisture present in it.**

**The density of ammonia is less than that of air.  
So the gas jar used for collecting ammonia is kept inverted.**

Questions

1. Ammonium chloride ( $\text{NH}_4\text{Cl}$ ) and ..... are the reactants for the laboratory preparation of Ammonia .

(Calcium chloride , Calcium hydroxide,, Calcium carbonate, Calcium sulphate )

2. Why is ammonia gas passed through quick lime ( $\text{CaO}$ ) ?

3. The gas jar used for collecting ammonia is kept inverted. Explain the reason ?

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