

# Compounds of non-metals

Name of Experiment : Preparation of ammonia

Principle : Haber's process

Materials : Test tube, Delivery tube, Drying tower  
Gas Jar,  $\text{NH}_4\text{Cl} + \text{Ca}(\text{OH})_2$ ,  $\text{CaO}$

Procedure :  $\text{NH}_4\text{Cl}$  and  $\text{Ca}(\text{OH})_2$  are heated and passed through tube to Drying tower. From drying tower, the wet ammonia is passed through  $\text{CaO}$  to absorb moisture. Then, ammonia is collected in gas jar.

Observation : Dry ammonia is formed

Conclusion : Ammonia is produced in

Small amount of  $\text{NH}_4\text{Cl}$  and  
 $\text{Ca}(\text{OH})_2$ .