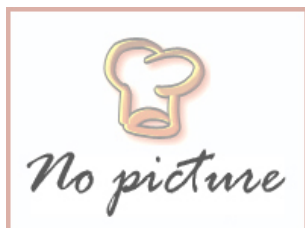


Demonstration Download: White Smoke

ChemTeacher Demonstrations

White Smoke

Author: brendzel



In this Lewis acid/base reaction, the combination of HCl (the Lewis acid) and Ammonia (the Lewis base) forms ammonium chloride, a white gas.

Materials

Around 20 mL of ammonia Around 20 mL of hydrochloric acid (HCl)

Procedure

Put a tiny amount of HCl in one beaker. Pour in just enough to coat the sides and bottom of the beaker, and pour the excess down the sink. Place cardboard on top of beaker. In the other beaker, add the ammonia. Invert the beaker with the HCl and cardboard so it is on top of the beaker with ammonia. Pull out the cardboard. White smoke should appear.

Notes

No Description available

Demonstration Time	minutes	Difficulty	No specific experience required
Portions	Local grocery store 	Availability of Materials	4
Preparation Time	5	Cost of materials	