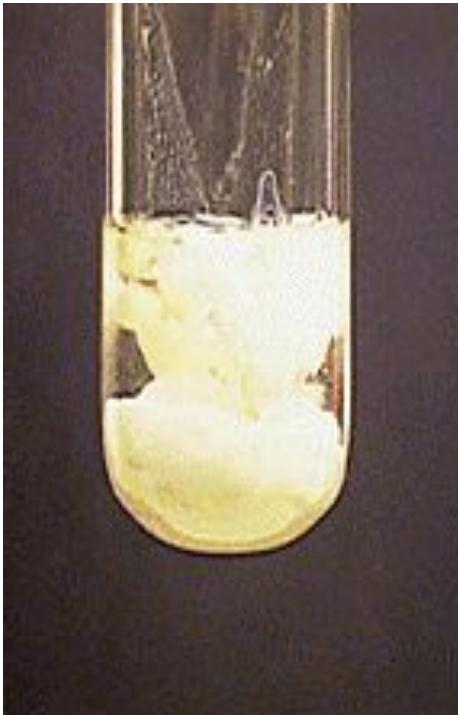
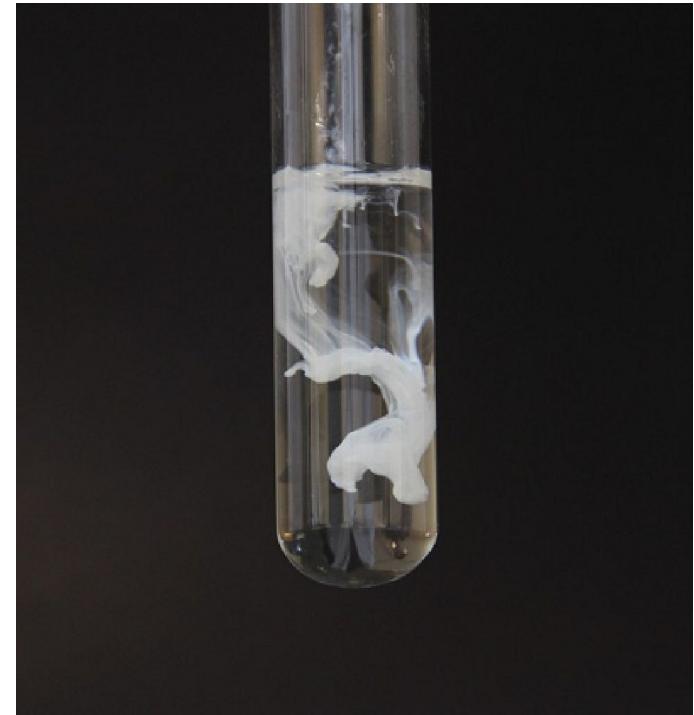




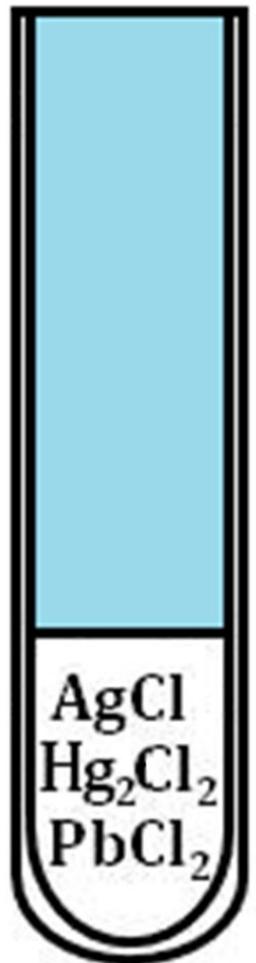
Lead(II) chloride
(PbCl_2)



Mercury(I) chloride
(Hg_2Cl_2)

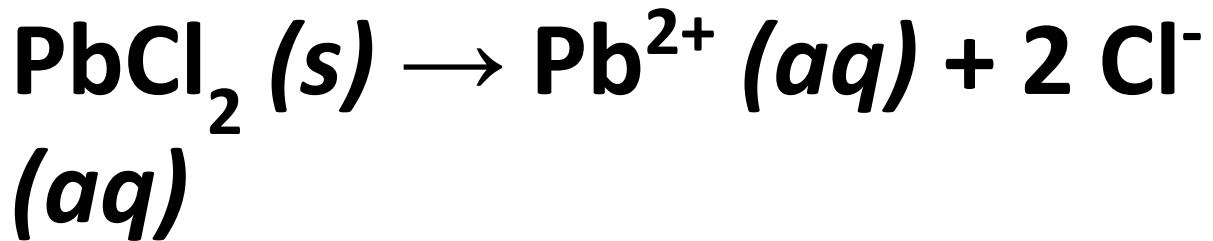
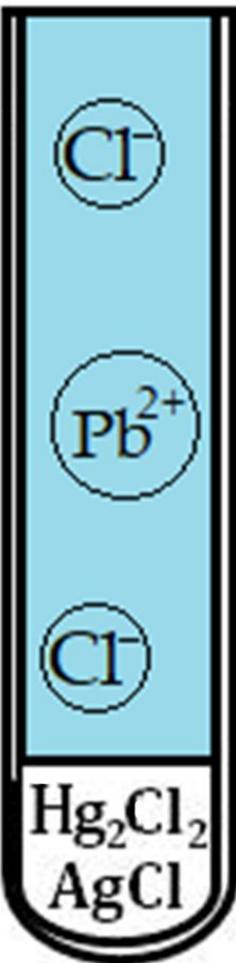


Silver chloride
(AgCl)



Heat \longrightarrow

*Basis of Separation:
Difference in Solubility
as a Function of
Temperature

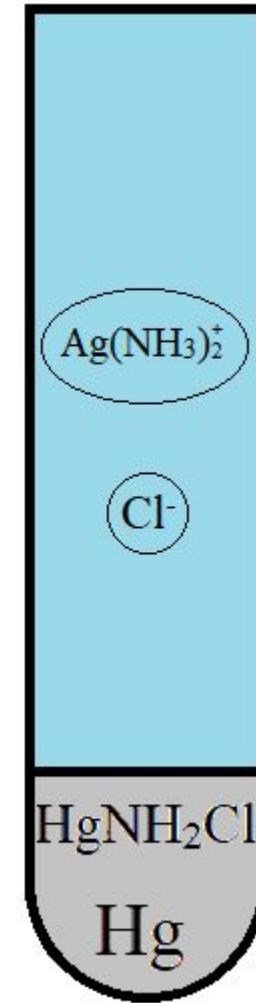
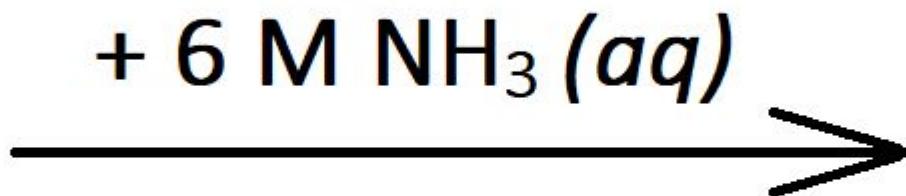
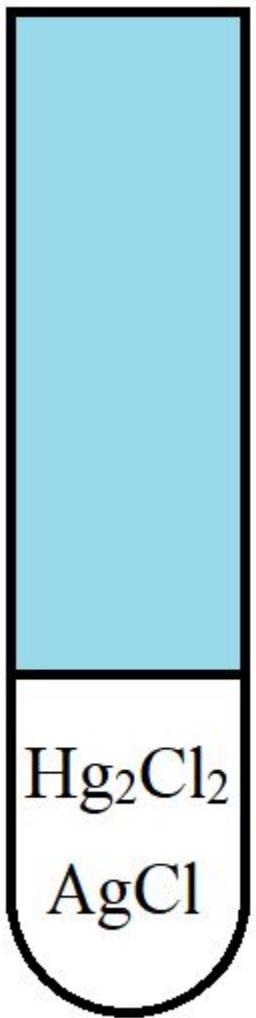


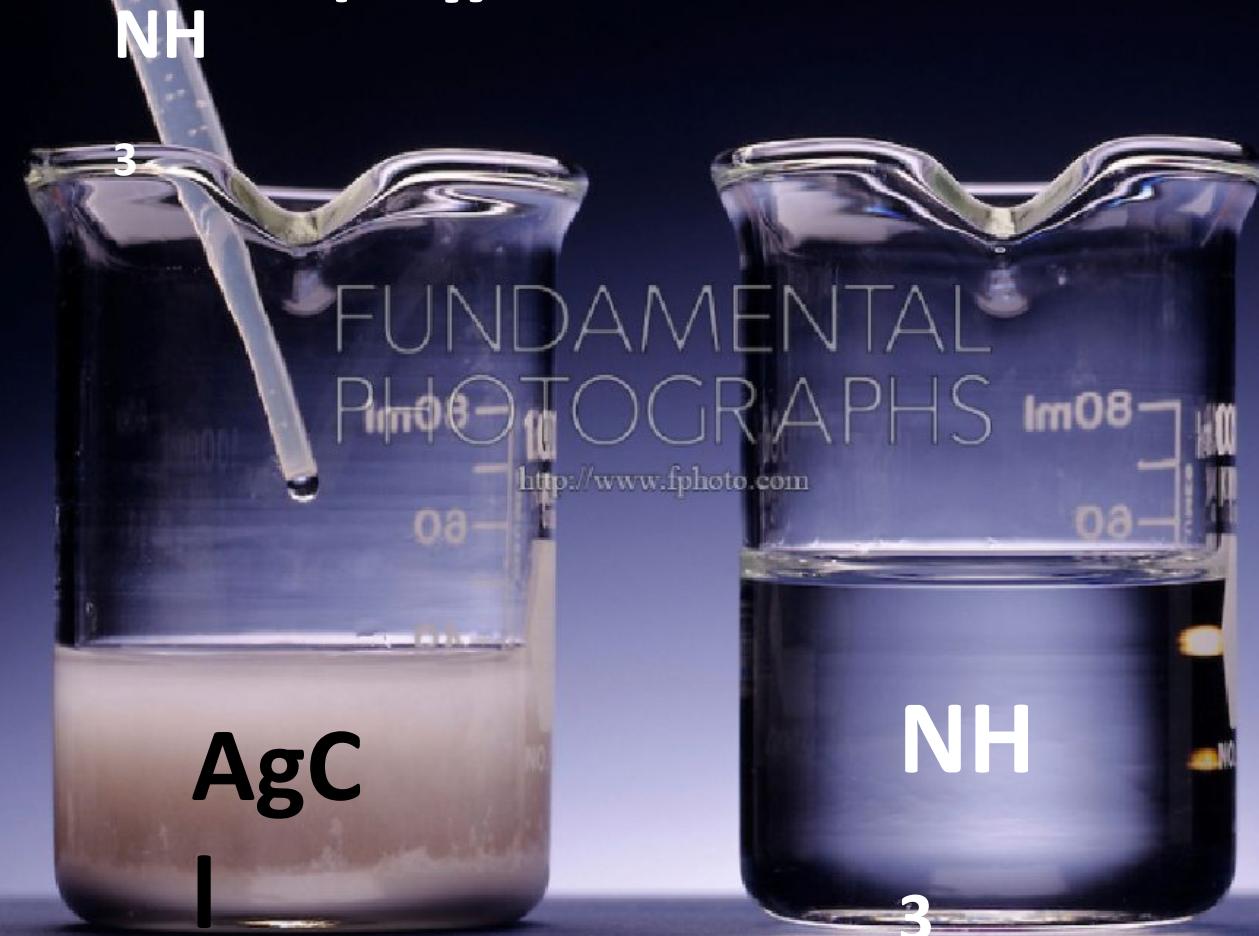
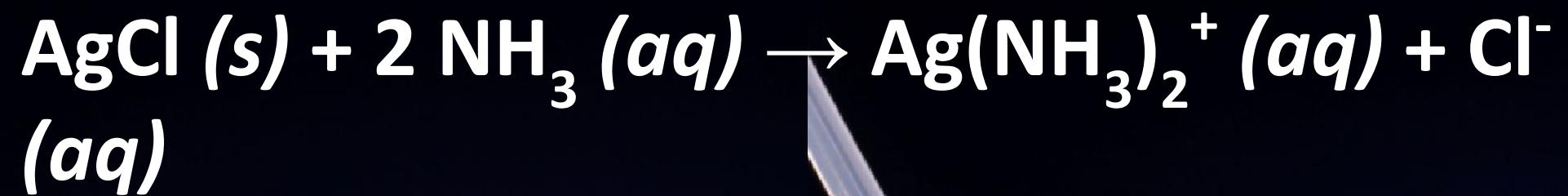
FUNDAMENTAL
PHOTOGRAPHS

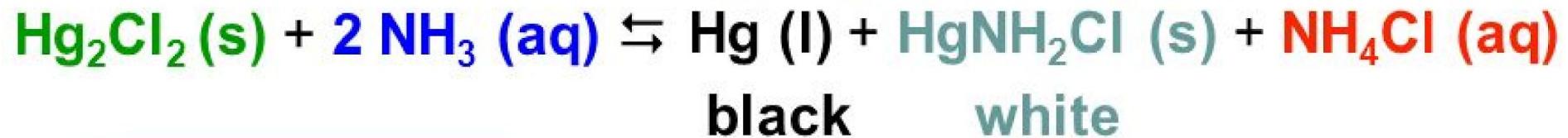
<http://www.fphoto.com>

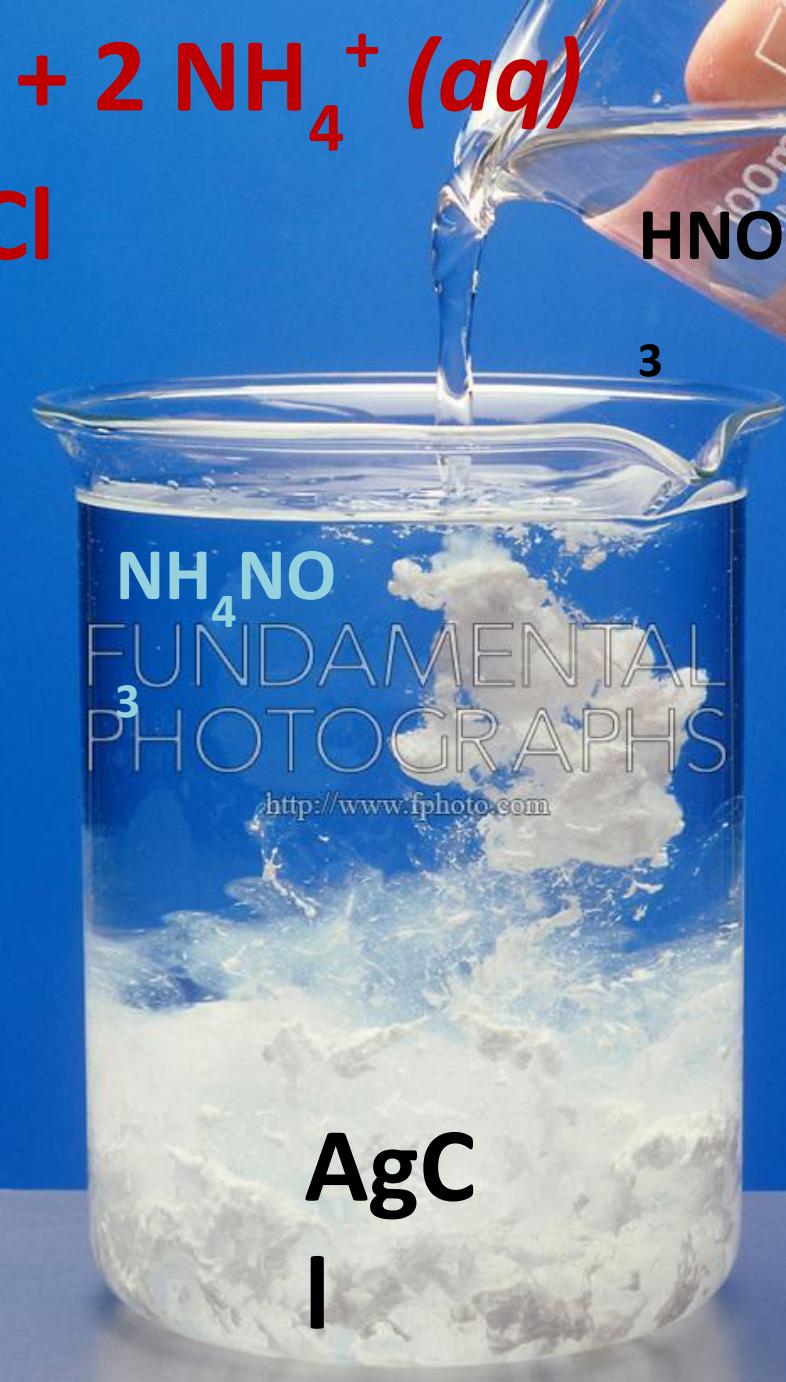
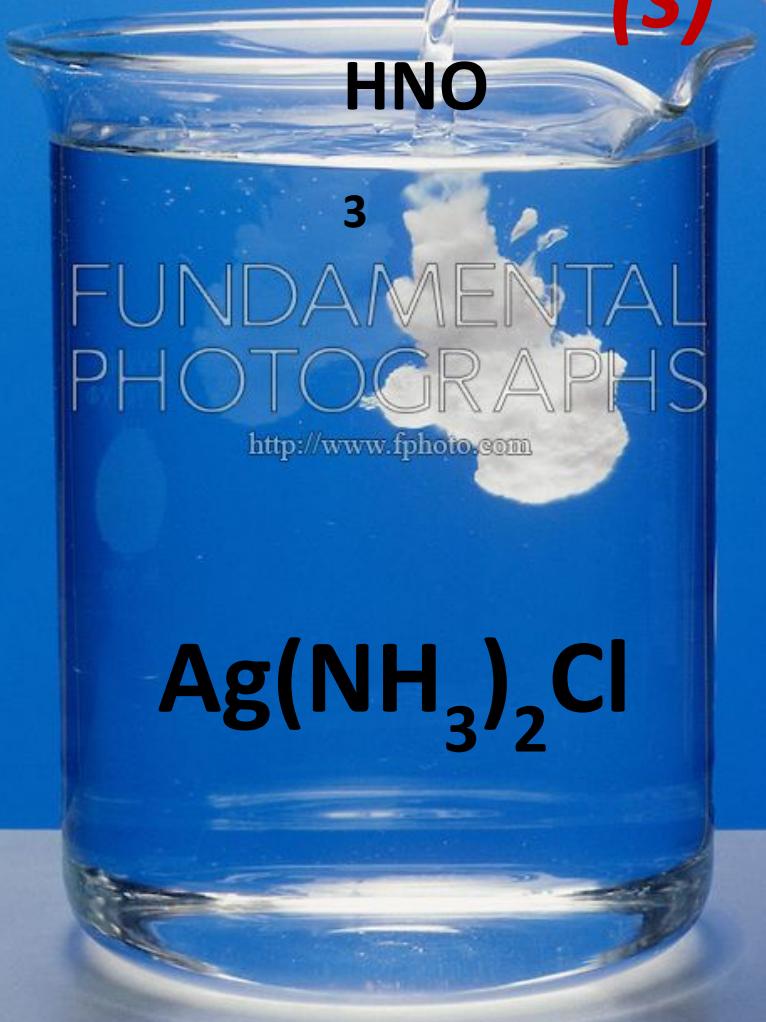














(a) Precipitation of group 1 cations by adding HCl(aq):
 $\text{AgCl(s)} + \text{Hg}_2\text{Cl}_2(\text{s}) + \text{PbCl}_2(\text{s})$



(b) Confirmation test for lead by addition of $\text{Na}_2\text{CrO}_4(\text{aq})$: $\text{PbCrO}_4(\text{s})$



(c) Confirmation test for mercury by adding $\text{NH}_3(\text{aq})$:
 $\text{Hg(l)} + \text{Hg}(\text{NH}_2)\text{Cl(s)}$



(d) Confirmation test for silver by adding HCl(aq): AgCl(s)

