

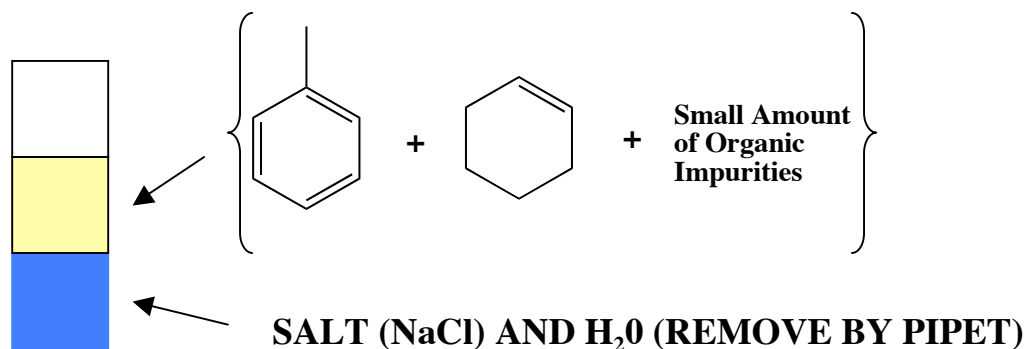
**THE COLLECTION VIAL NOW CONTAINS CYCLOHEXENE, WATER, TOLUENE, AND SMALL AMOUNTS OF OTHER IMPURITIES.**

**WE WISH TO PURIFY THE PRODUCT BY A FINAL DISTILLATION BUT WATER INTERFERES WITH THIS DISTILLATION BECAUSE IT CO-DISTILLS WITH THE CYCLOHEXENE AND TOLUENE.**

**WE THEREFORE MUST REMOVE ALL WATER BEFORE DISTILLING.**

**THIS IS DONE IN TWO STEPS:**

**FIRST – THE SAMPLE IS SHAKEN WITH AN AQUEOUS SATURATED SALT SOLUTION – THIS IS A PRE-DRYING THAT REMOVES MOST OF THE WATER. TWO LAYERS ARE FORMED AND THE LOWER, AQUEOUS LAYER IS REMOVED BY PIPET.**



**SECOND – ANHYDROUS CALCIUM CHLORIDE PELLETS ARE ADDED. THIS IS AN INORGANIC DRYING AGENT AND SUCKS UP ANY REMAINING WATER THAT IS DISSOLVED IN THE SAMPLE. LET STAND FOR 5 MIN THEN PIPET SAMPLE INTO CLEAN DRY DISTILLING FLASK.**