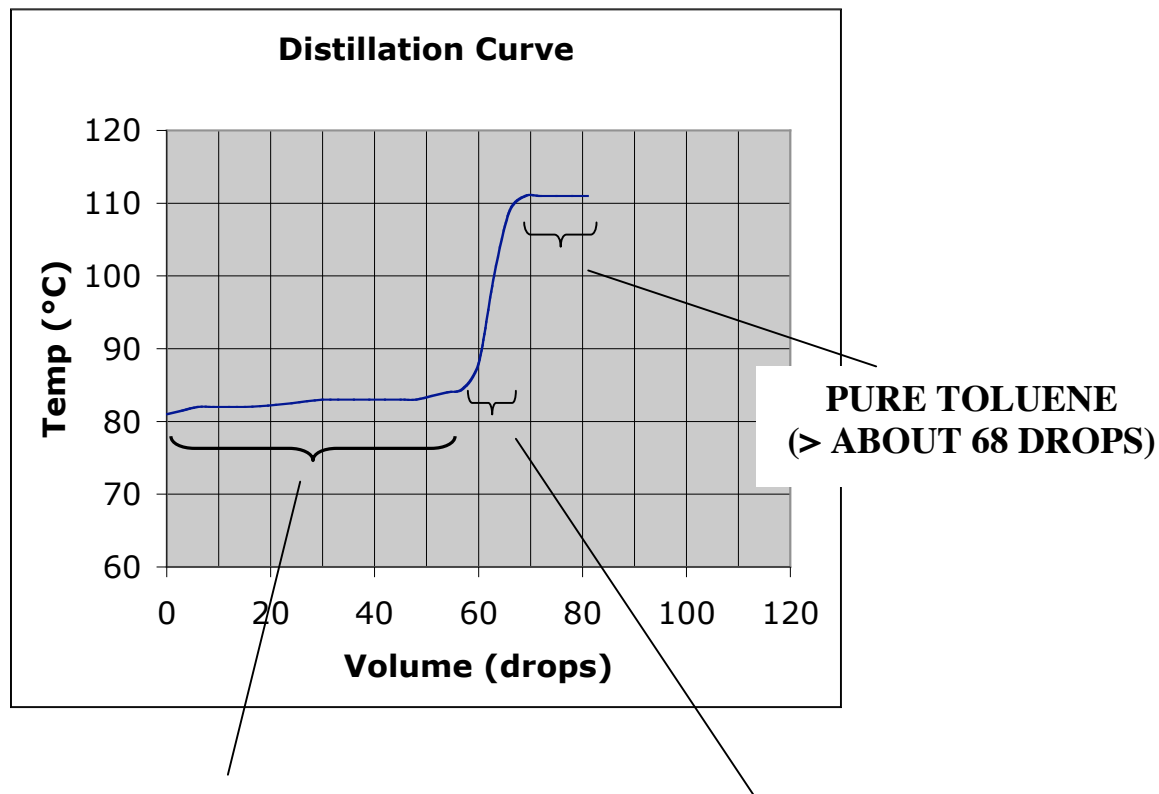


USING CLEAN DRY FRACTIONAL DISTILLATION APPARATUS, DISTILL THE DRIED MIXTURE (MOSTLY CYCLOHEXENE AND TOLUENE) INTO A CLEAN DRY TARED (WEIGHED EMPTY) VIAL.



**PURE CYCLOHEXENE**  
**BP 83°**  
**(ABOUT 1 – 55 DROPS)**

**MIXTURE OF CYCLOHEXENE**  
**AND TOLUENE**  
**(ABOUT 55 – 68 DROPS)**

**PURE TOLUENE**  
**(> ABOUT 68 DROPS)**

**LIQUID THAT DISTILLS BELOW THE 83° PLATEAU (< ABOUT 81°)**  
**IS CONSIDERED TO BE LOW-BOILING IMPURITY.**

**LIQUID THAT DISTILLS ABOVE THE 83° PLATEAU (> ABOUT 85°)**  
**IS CONSIDERED TO BE HIGH-BOILING IMPURITY.**

**THIS ASSUMES THAT THE THERMOMETER IS PLACED**  
**CORRECTLY AND THAT THE DISTILLATION RATE IS ABOUT 1**  
**DROP PER 20 – 30 SECS.**