XERIMENT NO1

AIM: to determine heat of solution of a substance y solubility method

REFRENCE: practical physical pharmacy by H.N. More and A. A. Hajare page no.235-236

Requirements:

Chemicals: distilled water, benzoic acid or salicylic acid or oxalic acid.

Apparatus: thermostat, analytical balance, porcelain dish or watch glass, calibrated weight box,

Hot plate, pipette, thermometer etc.

Procedure:

1. Clean thoroughly all the required glassware with acid and then wash two to three times with fresh distilled water
2. Tae 50ml of distilled water in suitable beaker.
3. Add benzoic acid beaker containing water and stir it properly.
4. Increases temperature to 85° c with continuous stirring; maintain the same for a few minutes and then cool to any temperature lower than 85° c say 70°c
5. Transfer 10ml of the sample solution to beaker or porcelain dish
6. Allow temperature to fall further to T1 and without 10ml of sample by pipette and transfer to beaker or porcelain dish.