

## SPIRITS

→ Spirits are alcoholic or hydroalcoholic solution of volatile substance

→ Spirits are also called as essence.

→ Spirits usually contains 50-90% of alcohol.

① Simple solution.

② Solution with maceration

③ Chemical reaction.

④ Distillation.

→ Spirits must be stored in a tightly closed container to avoid the loss of alcohol or volatile substances.

→ Spirits should kept in a cool place (20°C) and should be protected from flame or fire.

→ Spirits are used generally in flavouring agent.

## AIM OF THE EXPERIMENT

To prepare and submit 10ml. of peppermint spirit etc.

## APPARATUS REQUIRED

- ① Ethyl alcohol (90%)
- ② Peppermint oil.
- ③ Glass rod
- ④ Measuring cylinder.

## THEORY

- Peppermint oil is obtained by the distillation from the fresh flowering tops of mentha piperita
- Peppermint spirit BPC is prepared by the solution method in which the peppermint oil is dissolved in alcohol.

## PROCEDURE

- ① Pipetting the required volume peppermint oil and dissolve in a small amount of alcohol.
- ② Add sufficient amount of ethanol to make up the volume.

## DISPENSING

Transfer the preparation to a tightly closed light and resistance

## STORAGE

store in a cool place ~~(20°C)~~ and protected from flame or fire.

## AUXILIARY LABEL

KEEP AWAY FROM DIRECT FLAME OR FIRE

Teacher's Signature

### OBSERVATION

S.NO	INGREDIENTS	QUANTITY GIVEN	QUANTITY TAKEN
1	Peppermint oil	10 ml	1 ml.
2	ethyl alcohol (90%) ----- 9/5	100 ml.	100 ml.

### CALCULATION

In peppermint oil,

$$100 \text{ ml} \rightarrow 10 \text{ ml.}$$

$$1 \text{ ml} \rightarrow \frac{10}{100} \text{ ml.}$$

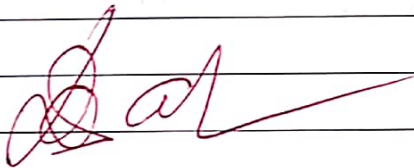
$$10 \text{ ml} \rightarrow \frac{10}{100} \times 10 = 1 \text{ ml.}$$

## USES

It is used as flavouring agent.

## REPORT

10ml of peppermint spirit BPC was prepared, label and submitted.



## PEPPERMINT SPIRIT BPC

### Composition:

Peppermint oil      1 ml.  
 Ethanol (90%)      10 ml.  
 q.s...

### Storage:

store in a cool place.  
 (20°C) and protect  
 from flame or fire.

peppermint spirit BPC.  
 (used as flavouring  
 agent)

KEEP AWAY FROM DIRECT  
 FLAME OR FIRE

Mfg Lic No-

Batch No-

Mfd Date-

Exp Date-

MRP-

Mfd by - SOP, CUTM  
 Gopalpur, Balasore.