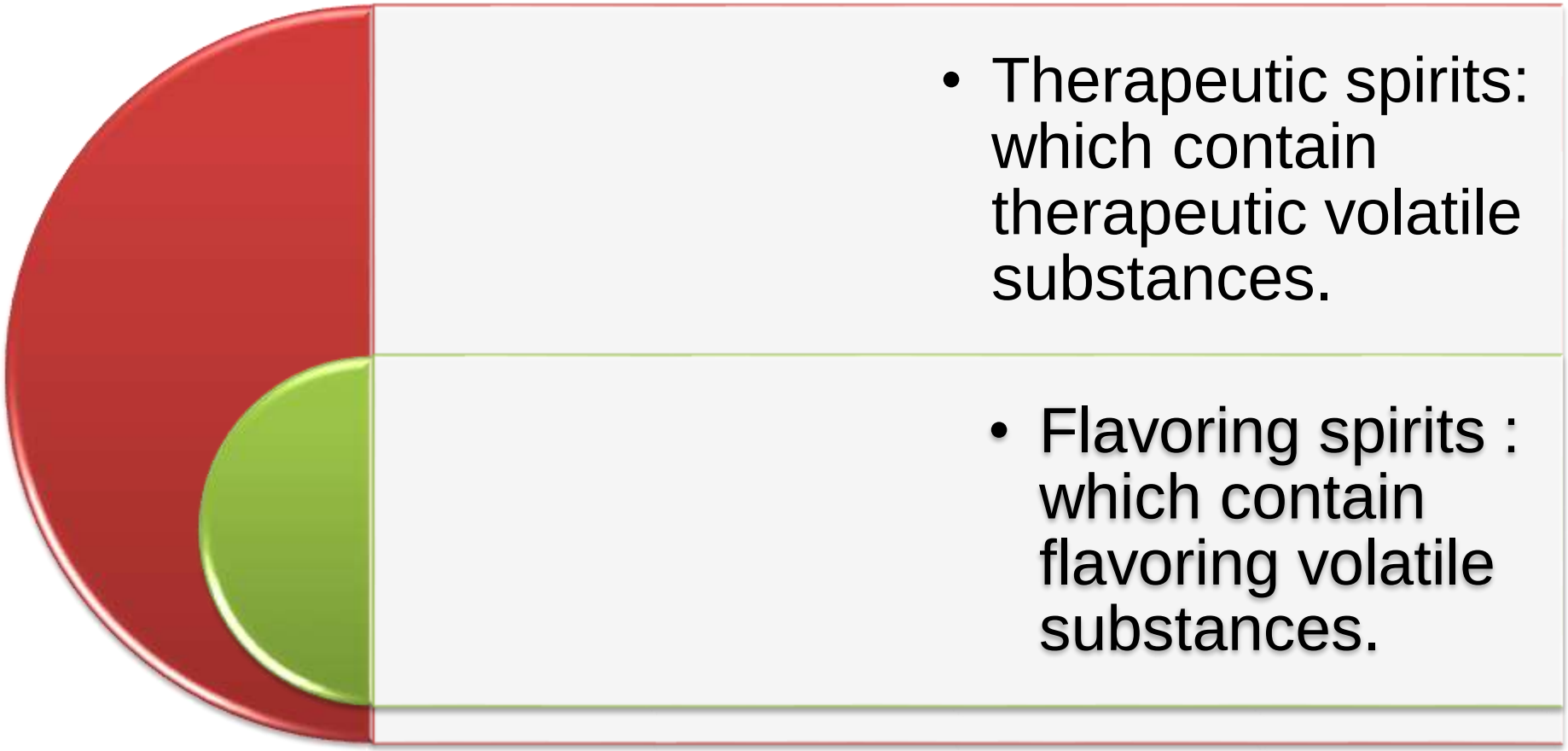
Spirits


matic Spirit of Ammonia
Ethyl Alcohol 64 to 70% v/v
STIMULANT
400 ml.
Mfg. Date
Exp. Date

Spirits

Are alcoholic or hydro alcoholic solutions of volatile principle (mostly volatile oil)

spirits could be classified according to their uses:



- Therapeutic spirits: which contain therapeutic volatile substances.
- Flavoring spirits : which contain flavoring volatile substances.

- spirits also known as **essences.**

- Spirits prepared by distillation, but nowadays there are prepared by dissolving the volatile substances in alcohol.

- The amount of volatile substance in spirits varies greatly and no fixed percentage can be given ,but in all cases, volatile substances in the spirits is more than that of aromatic water.

- Amount of alcohol differ from one spirit to another ,the lowest amount of alcohol found in **internal spirits** as(aromatic spirit of ammonia) which contain 62-68% alcohol while (camphor spirit) which is used **externally** contain 80-87%.

- Spirits when taken orally , they are generally mixed with portion of water to reduce from pungency.

- In preparation of spirits we must keep in mind that the oil dissolved in alcohol is precipitated causing **turbidity** when the solutions are mixed with water other than specified in the formula ,so all equipment should be dry and filter paper should be moisten with alcohol.

- Spirits should be stored in light resistant containers and in cool place to prevent evaporation of alcohol and volatilization of volatile substance or active ingredients and to limit oxidative changes.

Methods of preparation of spirits

-Simple solution method

-Maceration

-Chemical reaction

-Distillation

Spirits of orange B.P

Rx

Oil of orange	200 ml
Oil of lemon	50 ml
Oil of coriander	20 ml
Oil of anise	5 ml
Alcohol Q.S	1000 ml

Method:

According to simple solution method, mix oils with sufficient alcohol to make the product measure 1000 ml.

Note :

Anise oil use as carminative and mild expectorant (as cough mixtures and lozenges)

Compound spirit of cardamom B.P

Rx

Oil of cardamom		**20 ml**
Oil of orange		**20 ml**
Of cinnamon		**2 ml**
Oil of clove		**1 ml**
Anethol		**1 ml**
Oil of carawya		**0.2 ml**
Alcohol	**Q.S**	**200 ml**

Method:

Mix the oils and anethol with sufficient alcohol to make the product measure 200 ml.

Notes: -

- ✓ **Carawya oil used as antispasmodic agent ,mainly in children mixtures.**
- ✓ **Cinnamon oil used as carminative and flavouring agent.**
- ✓ **Cardamom used as carminative and flavouring agent.**
- ✓ **Anethol used as mild expectorant in cough mixtures and lozenges, also as flavouring agent.**

Aromatic spirit of ammonia

Rx

Ammonium carbonate		**34 g**
Dilute solution of ammonia		**90 ml**
Oil of lemon		**10 ml**
Oil lavender		**1 ml**
Oil of myristica		**1 ml**
Alcohol		**700 ml**
D.W	**Q.S**	**1000 ml**

Mitte 50 mL

Method:

1.Dissolve the solid material in dilute solution of ammonia with little amount of water.

2. The oils are dissolved in alcohol with little amount of water.

3. Filter each solution separately if needed, then add the aqueous solution to the alcoholic one. If the alcoholic phase is added to the aqueous one, sudden dilution takes place causing a precipitation of oils with turbidity.

Note :

In preparation of aromatic spirit of ammonia we make filtration due to the presence of water with alcohol that lead to precipitation of volatile oil

uses of official spirits :

1. **Carminative (aromatic spirit of ammonia)**
2. **Antacid (aromatic acid of ammonia)**
3. **Mild reflex circulatory stimulant (camphor spirit)**
4. **Flavoring agent (cinnamon spirit)**

Thank you

