

# ***Aromatic Water online lab 2020***



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# Aromatic Water

- Are **liquid pharmaceutical preparations** of **volatile oil** or **essential oil** or **volatile solid material** .
- Aromatic water have low therapeutic effect since small amount of volatile substance present in water.
- They are used in pharmacy as **pleasant** and **flavoring medium** or **vehicle** for administration of water-soluble drugs in order to mask the undesirable taste and odor of the drugs.



# Preparation of aromatic water

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1. Distillation method
  2. Solution method
  3. Alternate solution method
  4. dilution method.

# I. Distillation method

- **Rose water, hamamels water, camphor water, peppermint water and orange flower water are prepared by this method because they are prepared directly from fresh plant materials.**

## 2. Solution method

- the essential oil which contains the aromatic material is **agitated** with purified water (2ml or 2gm of aromatic materials agitated with 1000ml of water ) in a closed container for 15 minutes then the mixture is set aside for at least 12 hour longer to permit the excess oil and solid substance to settle. Then filter through **wetted** filter paper, Then pass enough purified water through the filter paper to make the product measure 1000 ml.

**Pass the solution through filter paper in order to:**

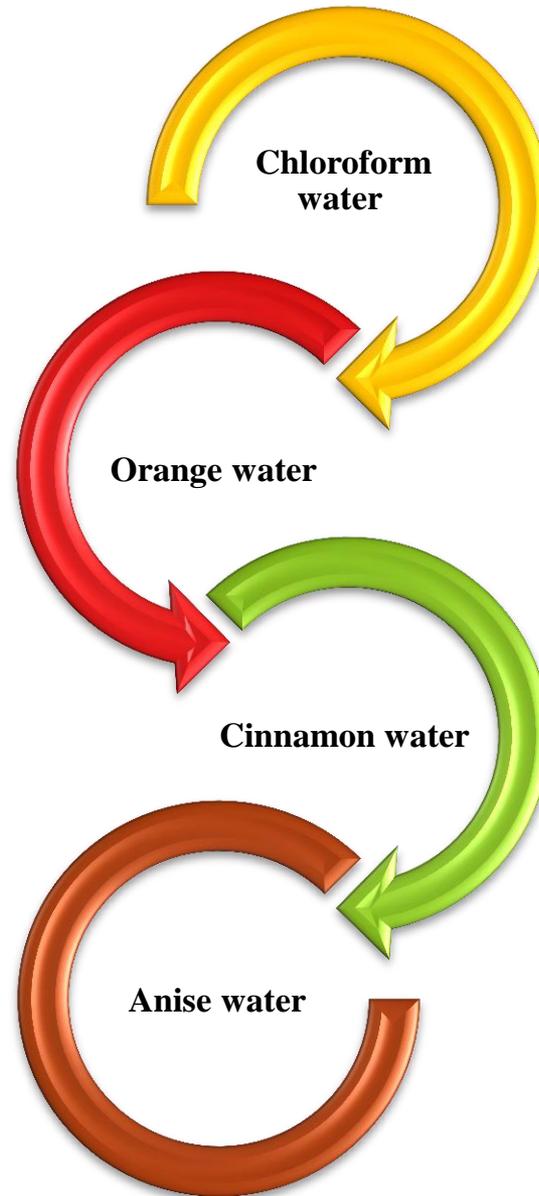
**Prevent the passage of excess oil into the filtrate**

**Eliminate absorption of the dissolved aromatic by the filter paper.**

# The disadvantage of solution method

- In spite of repeated filtration **it is difficult to get clear preparation** (the turbidity is related to the presence of fine particles of oil in the filtrate ) and this turbidity may be avoided by using boiling water and it consume time .

# example on this method :



# Chloroform water

- Chloroform oil                      2ml
- p.w                                      1000ml

- It is prepared by solution method **but without filtration** .it is prepared by placing excess amount of chloroform in a bottle then add water and shake vigorously .**some of chloroform dissolve in water** and form aromatic water and **excess will settle down on the bottom** of the bottle because it is heavier than water (there is no clarification problem).

# Uses of chloroform water:

- it is used as a pharmaceutical aid (**preservative**, **vehicle** and **general anesthetic**).
- **Note:** chloroform water is stored in light resistant bottle since the light will **oxidize** the chloroform to a poison gas (phosgene).



### **3. Alternate solution method**

- **In this method the aromatic water is prepared by mixing 2ml of volatile oil with 15 gm of talc powder then add 1000ml of p.w**
- **mix then filter .**
- **this method offer time saving and clear solution example on this method is peppermint water.**

# Talc powder

- It is **inert insoluble** substance used in alternate method because it **function as filter aid** (it adsorbs the excess amount of oil that cause turbidity ) and **as distributing** agent (it have the ability to break up aromatic substance into fine particles so the surface area exposed to the solvent increase so the solubility will increase.)

# Peppermint water

- Peppermint oil
- Talc powder
- P.W. 1000ml



- weigh 15 gm of talc powder and put it in a beaker then add 2ml of peppermint oil and **triturate well** then add 1000ml of p.w. mix the content thoroughly then shake for 10 minutes and **filter** through wetted filter paper.

# Uses of Peppermint water:

- It is used as **antispasmodic** and **carminative**.
- It is one of the most popular aqueous vehicle.
- It is used as ingredient in **mouth washes** because **menthol** give a **pleasant** and **cool** sensation on mucous membrane.



## 4. Dilution method

- **1** volume of concentrated aromatic water is diluted with **39** volume of water to get diluted solution
- example on this method is :  
**Peppermint water.**
- **Note: concentrated aromatic waters are 40 times stronger than ordinary aromatic water.**
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