

***EVERYTHING KNOWLEDGEABLE***

# **PERFUMES AND FLAVOURING AGENTS**

Peppermint oil, Lemon oil,  
Orange oil, Lemon grass oil,  
Sandalwood oil

Pharmacognosy

1st year

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By, Everything Knowledgeable

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# **Perfumes and Flavouring Agents**

- Any substance which is made from natural or synthetic materials or a combination of both, employed for creating pleasant odour is known as perfumes.

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- The flavoring agents are the substances which are used to mask the unpleasant taste.

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# Lemon oil

- **Synonym:** Lemon
- **Biological Source:** It is volatile oil obtained by expression method, without application of heat, from the fresh peel of ripe or nearly ripe fruits of Citrus lemon.
- **Family:** Rutaceae.



**Morphology:**

**Colour:** pale yellow or greenish yellow

**Odour:** Reminiscient of lemon

**Taste:** Aromatic

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**Chemical Constituents:** terpenes-  
limonene, geraniol, citronellal,  
hesperidin, pectin, calcium oxalate  
and bitter substance, etc,

- **Uses:**

1. As flavoring agent and in perfumery
2. For the preparation of lemon oil etc.

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- **Chemical test:** add 3vol. Of alcohol in one vol. of recently expressed oil; it is neutral or slightly acidic to litmus paper.

# LEMON GRASS OIL

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- Synonym: Jarakush
- Biological Source: It is volatile oil obtained by stem distillation from the leaves and aerial parts of *Cymbopogon flexuosus*.
- Family: Graminae





- **Morphology:**

Colour: Yellowish brown

Odour: Characteristic

Taste: Aromatic and Characteristic

- **Chemical Constituents:** it contains volatile oil. The chief constituents of volatile oil are 'essential', it also contains methyl-heptenol, nerol, citronellal, diterpenes and geraniol.

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- **Uses:**

- i) As flavouring agent and in perfumery

# ORANGE OIL

- Synonym: Sweet orange oil
- Biological Source: It is a volatile oil obtained from the fresh orange peels of sweet orange, *Citrus cinensis*,
- Family: Rutaceae





- **Morphology:**

Colour: Yellow to Yellowish brown

Odour: Characteristic

Taste: Aromatic and Characteristic

- **Chemical Constituents:** It contains volatile oil. The main constituents of volatile oil are limonene, citral and citronellal. Hesperidin, isohesperidin, neohesperidin, vitamin C and pectin.

- **Uses:**

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- i) As flavoring agent and in perfumery
- ii) For the preparation of orange oil.

- **Chemical Test:**

- i) Solution of freshly prepared orange oil in dehydrated alcohol is neutral to litmus paper.

# PEPPERMINT OIL

- **Synonym:** Mentha oil  
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- **Biological Source:** It is oil obtained by steam distillation of the fresh leaves, flowering tops and arial part of the *Mentha piperita*.
- **Family:** Labiatae.



- **Morphology:**

Colour: Colourless or Yellow

Odour: Characteristic , Pleasant

Taste: Pungent followed by cooling sensation

Solubility: Soluble in 70% alcohol, ether and chloroform and insoluble in water.

• **Chemical Constituents:** It contains volatile oil. The chief constituent of volatile oil is L-Menthol.

• It also contains menthone, menthofuran, jasmine, menthyl, menthyl acetate etc.

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- **Uses:**

- i) It has mild antiseptic property
- ii) It is used in toothpaste, toothpowder, shaving cream, cigarettes.
- iii) Used in preparation of chewing gums, Dr. Everything Knowledgeable
- iv) Aromatic, carminative, stimulant, flavouring agent and counterirritant.

# SANDAL WOOD OIL

1. Synonym: Chandan wood  
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1. Biological Source: It is obtained by the distillation from dried heart-wood (inner wood) of *Santalum album*

1. Family: Santalaceae





- **Morphology:**

Colour: Yellowish or pale reddish

Odour: Strong and fragrant

Taste: Slightly bitter

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- **Chemical Constituents:** Sandalwood oil contains two isomeric sesquiterpines alcohol,  $\alpha$ -santalal and  $\beta$ -santalol also contains aldehyde santalal, ketones santenone. Apart from that it also contains santene, teresantol, santalone and santalene.

- **Uses:**

- i) Oil used as perfume in cosmetics and incense sticks.
  - ii) Used for symptomatic treatment of dysurea.
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