

AROMA CHEMICALS



*Sugandhim*TM

PRESENTATION BY:

Mr. Ramankant Harlalka



FRACTIONAL DISTILLATION

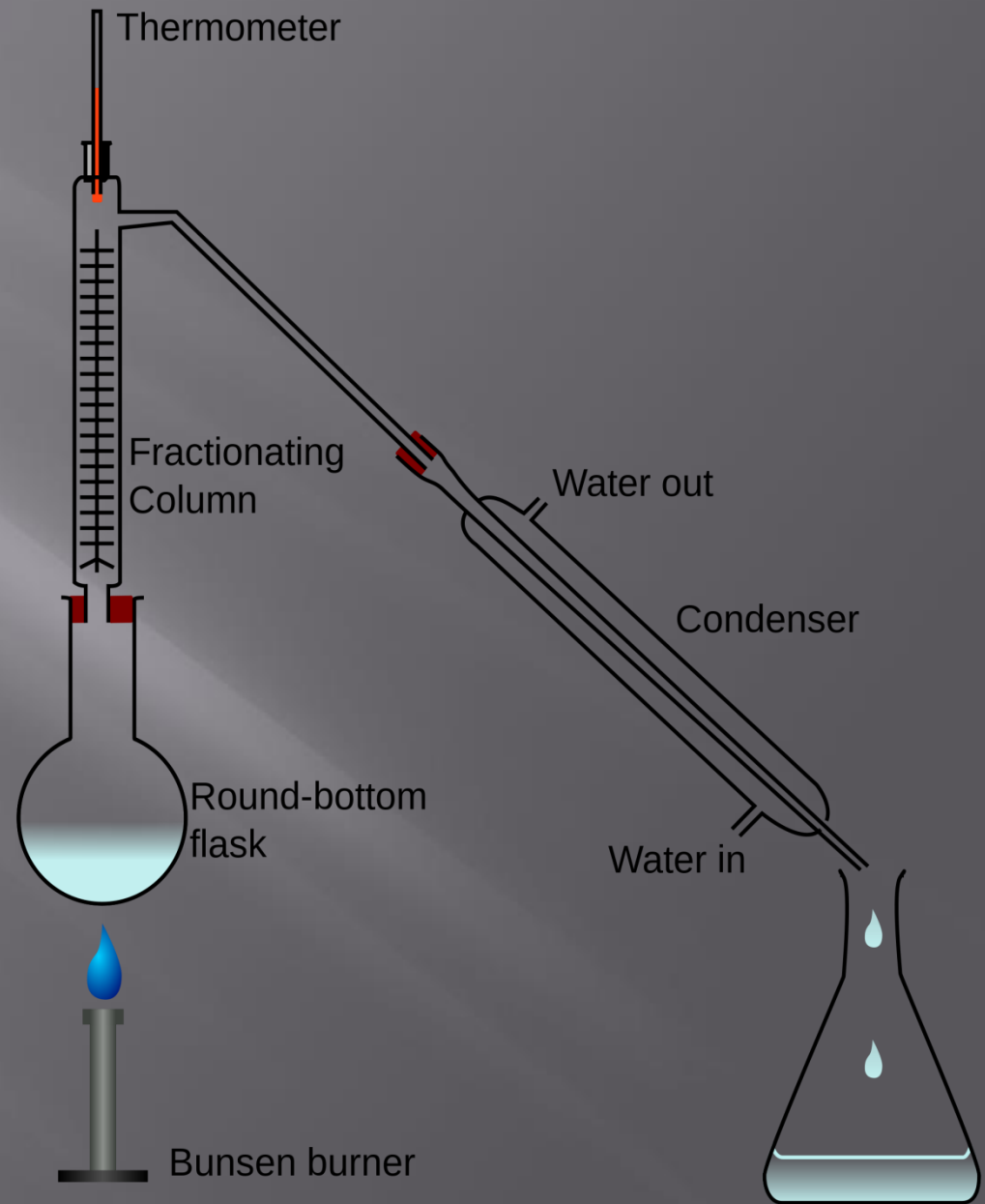
- ▣ **Fractional distillation is a method used in separating volatile (having a tendency to vaporize) liquids. Fractional distillation has been used traditionally in the separation of mixtures and purification of solvents, chemicals and other naturally occurring material.**

APPARATUS

- ▣ Fractionating column
- ▣ heat source, such as a hot plate with a bath, and ideally with a magnetic stirrer.
- ▣ distilling flask, typically a round-bottom flask.
- ▣ Receiving flask, often also a round-bottom flask.
- ▣ Distillation reactor.
- ▣ Thermometer and adapter (if needed).
- ▣ Condenser (Liebig condenser, Graham condenser or Allihn condenser).

FRACTIONATING COLUMN:

It is an essential item used in distillation of liquid mixtures so as to separate the mixture into its component parts, or fractions, based on the differences in volatilities.





Multifunctional reactor with
tail gas absorption device



200L spherical reaction bottle

FRACTIONAL DISTILLATION REACTORS

Advantages of fractional distillation

1. **High production.**
2. **Product quality.**
3. **Safety and environmental regulation**
4. **Provide control to systems that play a key role in biochemical operations.**
5. **High efficiency**
6. **Easy to use.**



AROMA CHEMICALS

Ald C-10	Ambrettolide	Anisic Aldehyde	Cis-3-Hexenol(N)	Damascone
Ald C-12 (Lauric)	Ambroxan	Benzophenone	Cis-3-Hexenol(S)	DCPD Ester
Ald C-12 MNA	Amyl Acetate	Benzyl Acetate	Citral	Di Phenyl Oxide
Ald C-14	Amyl Cinnamic Aldehyde	Benzyl Benzoate	Citronellal	Diethyl pthalate
Ald C-16	Amyl Salicylate	Benzyl Salicylate	Citronellol	Dihydromyrcenol
Ald C-18	Anethole	Cedrenyl Acetate	Citronellyl Acetate	D-Limonene
Aldehyde C-11	Anisic Acetate	Cedryl Methyl Ether	Coumarin	DMBCA
Allyl Amyl Glyconate	Anisic alcohol	Cinnamic Aldehyde	Cyclogalbanate	Ethyl Phenyl Acetate

Eucalyptol	Hedione	Ionone	Lilial/Lilestrilins	Methyl Anthranilate
Eugenol	Heliotropine	Iso Bornyl Acetate	Linalool	Methyl Benzoate
Evernyl	Hexyl Cinnamic Aldehyde	Iso Eugenol	Linalyl Acetate	Methyl Chavicol
Galaxolide	Hexyl Salicylate	IsoBorneol	Lyral	Methyl Heptyl Carbonate/MHC
Geraniol	Hydroxy Citronellal	Iso-E-Super	Maltol/ Ethyl Maltol	Methyl Ionone
Geranyl Acetate	IBCH/ICCH	Isolongifolanone	Menthol	Methyl Salicylate
Geranyl Nitrile	Indole	L-Carvone	Menthone	Musk Ambrette

Musk Ketone	Phenyl Ethyl Methyl Ether	Terpinyl Acetate	p-Cresyl Phenyl Acetate	Terpineol
Musk T	PTBCHA	Tetra Hydro Linalool	Phenyl Acetic Acid	PCME
Musk Xylol	Rose Crystals	Thymol	Phenyl Ethyl Acetate	OTBCHA
Nerolin Bromelia	Rose Oxide	Tonalid	Phenyl Ethyl Alcohol	Speciality Sandal derivatives like SMC, Bacdanol
p-Cresyl Acetate		Styrallyl Acetate		Orange Crystal

Thank
you

