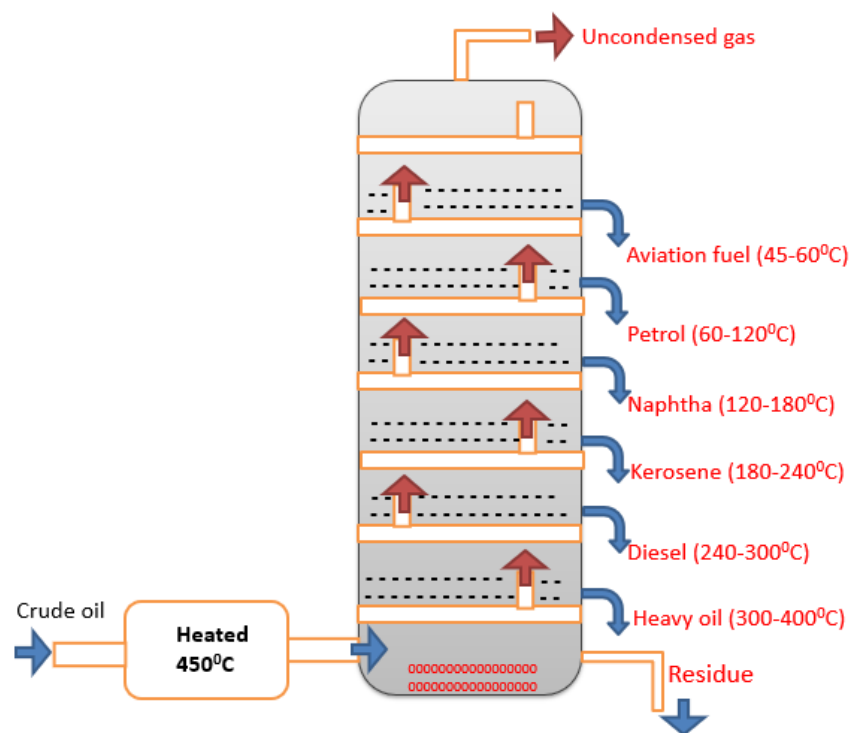


Distillation of crude oil by fractional distillation method

Crude oil Distillation

The oil obtained from mines or oil rivers from earth crust is a Crude oil. Crude oil contains mixture of different oils and gases. This can be separated by Fractional distillation method.

Distillation column



Process-

1. The diagram shows the distillation process of crude oil. Crude oil is made up of a mixture of hydrocarbons. This crude oil taken from oil well.
2. The distillation process is used to separate crude oil into different component of hydrocarbons i.e. fractions.
3. Crude oil is first heated and then sends to distillation column. Here different hydrocarbons get boil off and are separated at different temperatures.
4. The lighter hydrocarbons like butane and other liquid petroleum gases (LPG), gasoline, and naphtha, are separated at the lowest temperatures.
5. In the middle of tower jet fuel, kerosene, oil and diesel fuel are separated.
6. The heaviest products such as residual fuel oil, tar petroleum jelly, grease are recovered at highest temperatures sometimes 1,000 degrees Fahrenheit.
7. In this way separation of different hydrocarbons from crude oil can be takes place by fractional distillation process.