

## Fractional Distillation

Fractional distillation is the process of heating up a mixture containing different substances with different boiling points, and drawing the different fractions off as they each boil and liquify at its own level. Crude oil contains a lot of useful substances that can be used for different purposes. Each fraction is not a pure compound but is a mixture of different alkanes with similar boiling points. Fractional distillation is used because the substances in crude oil are miscible (which means that they mix) therefore they do not separate out into layers. The following table shows the products of fractional distillation:

	Name of Fraction	Boiling Point	Uses of Fraction	Petroleum gases	25oc	Bottled gas and chemicals		
Gasoline	40oc - 75oc	Petrol	Naphtha	75oc - 150oc	Chemicals	Kerosene	150oc - 240oc	Jet Fuel
Diesel Oil	220oc - 250oc	Diesel Fuel	Lubricating Oil	250oc - 350oc	Lubricants and chemicals	Fuel Oil	350oc	
Fuels for ships	Bitumen	stays solid/liquid	Roads and Roofing Felt					

## About the Author

Source: <http://crampuppy.com>