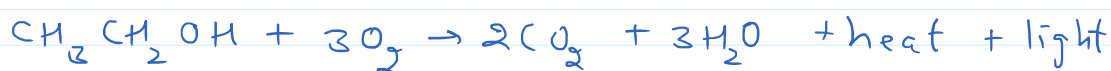
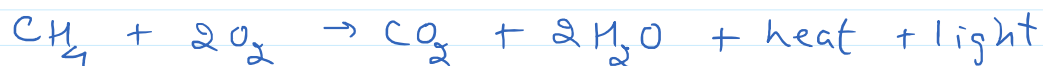
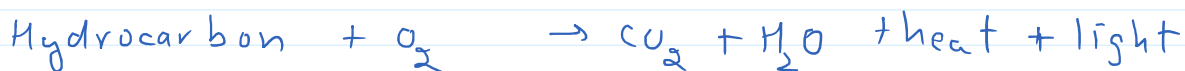
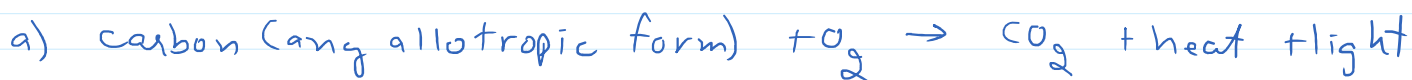


Chemical properties of carbon compounds

1. Combustion.



b) Saturated hydrocarbons burn with clean blue flame; unsaturated hydrocarbons burn with yellow sooty flame due to incomplete combustion.

c) Limited supply of air results in incomplete combustion of even saturated hydrocarbons giving a sooty flame.

d) Fuels such as coal and petroleum have some amount of nitrogen and sulphur in them. Their combustion results in the formation of oxides of sulphur and nitrogen which are major pollutants in environment.

e) Flame is produced only when a gaseous substance is burnt.

f) When wood or charcoal is ignited, the volatile substance present vapourize and burn with a flame in the beginning, later it just glows red and gives out heat without a flame.

g) the colour produced by each element is a characteristic property of that element.

Question

Why bottom of cooking vessels get blackened?

Ans:

This occurs because air holes in inlets of gas/ kerosene stove gets blocked, hence there is insufficient supply of oxygen which causes incomplete combustion with yellow sooty flame.