

CATALYSIS

(Saathi)

The word 'Catalysis' was first used by Berzelius in 1836. Dobereiner in 1825 observed that the Manganese dioxide affected the rate of decomposition of Potassium Chlorate.

Berzelius defined the catalysis as

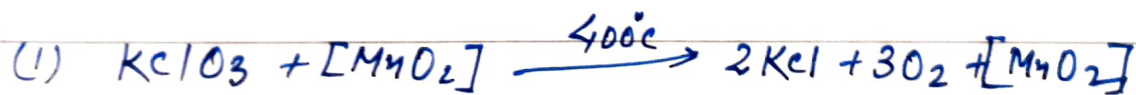
"It is the phenomenon in which the presence of a foreign substance could accelerate its rate without being used up in that reaction."

He called the foreign substance as Catalysts. Later on, it was reported that catalyst could also retard the rate of reaction...

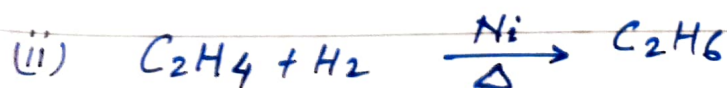
Thus this definition of Berzelius was generalised and a new definition was setup for it.

"Catalyst is any substance which can change the speed of the reaction without being used up in that reaction and the phenomenon is known as Catalysis."

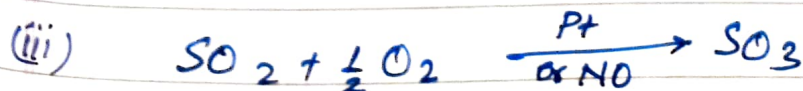
Some Examples of Catalysis are given below.



$[\text{MnO}_2]$ increases the rate of decomposition of KClO_3 .



Ni [finely divided] is Catalyst.



Pt or NO is Catalyst.

