Factors Affecting Rate of Reaction
2 Panlant:
ionic or polar reactants have just ROR ionic or polar reactants have just ROR as compared to non-polar condent reactants.
Na CH AGNOZ + AgCLL Na+ CE AG+ NOZ JOST DRORÎ
0.444
N=N H-H H-N-H
Bonds break more somes
The types of bond in seachents & products affect ROR
2) Physical State of Reactant:
i) Groseous > Liquid > Solid
RORT
In gaseous state there are more chances for effective molecular collisions to give product.
ii) homo geneous > heterogeneous

O-Mant:
3 Surface trea of Reactant:
t in colid stark,
3) Surface Area of Reactions To Reaction is present in Solid stark, Morre is RORT
Marie Currence Area => 1-1000
More Surface Area > More is RORÎ More Surface Area > More is RORÎ example: Small cubes of sugar dissolves faster in water! Solvent as compared to large cube
example cubes of sugar and to large cube
in water solvent as compared
THE WEST
The state of the s
9 Light Intensity:
Certain chemical Reactions are photosensitive.
Certain chemical reactives a
CHy + Clo hv > CH3Cl + HCl (photon)
CHy+ Cla 1 Usa 1
(photon)
Intensity of light 1 > no. of photons1 => RORT
ROR ~ Intensity of light
ROR & I
8
5) Catalyst!
Presence of the Catalyst speeds up the
neaction (ROR1)
Catalyst sek up an alternate path with lower Activation Energy & hence Increases ROB
with lower Activation Energy & hence governes
ROR.

ROR & Stability of Product.
10/101
CH2 COOH -> CH3 COÓ + H+
CIB COUPT STORY
HCOOH -> HCOO + HT
RORT RORT
More Steinble
More stable ROKT Product
product