

Government Degree College, Medak

Department of Chemistry


Title of the Program: Webinar on “Enzymes & Receptors”

Date of the Program: 12-08-2021

No. of students participated: 70

Resource person: Dr. Rafiya Sultana, Asst. Prof. Of Chemistry, GDC, Begumpet.


Brief Report: A webinar on “Enzymes and Receptors” was organised for the B.Sc final year students. Dr. Rafiya Sultana, Asst. Prof. Of Chemistry, GDC, Begumpet, Hyd. Was the resource person. She delivered a wonderful lecture on basic key concepts of enzymes & receptors, its importance, their classification, mode of action, various theories explaining the drug receptor interactions and the drugs used in the treatment of enzyme deficiencies. 70 students have participated in the webinar and were enlightened with the information shared by the resource person.



Government Degree College, Medak

DEPARTMENT OF CHEMISTRY

WEBINAR
on
“Enzymes & Receptors”
12-08-2021 at 11.00 A.M



Join Zoom Meeting
<https://us04web.zoom.us/j/74101944548?pwd=M3BqK3U0WXFOTis3am8wVTV4R0xmUT09>
Meeting ID: 741 0194 4548
Passcode: 123456



Organised by Department Of Chemistry

Dr. A. Sudhakar
Principal, (FAC)

Resource person
Dr. Rafiya Sultana
Assistant Professor
GDC, Begumpet
Hyderabad

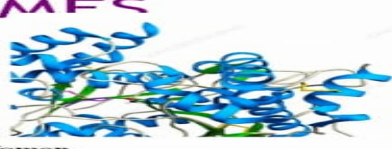
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Zoom 10:52

Leave

ENZYMES

Dr. Rafiya Sultana
Government Degree College for Women,
Begumpet
Hyderabad



Unmute Start Video Share Participants More

THERMODYNAMIC CHANGES

- All chemical reactions have energy barriers between reactants and products.
- The difference in transitional state and substrate is called *activation barrier*.

Free energy, G

Reactants

Products

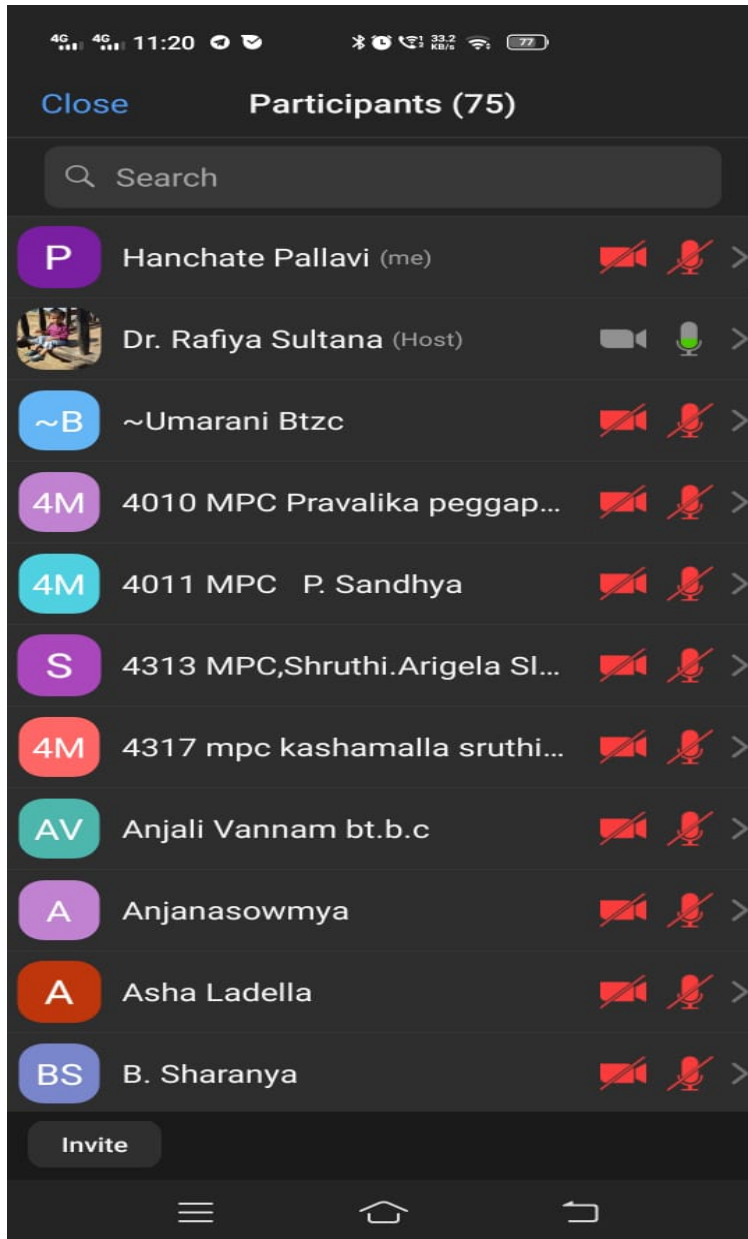
Transition state (uncatalyzed)

Transition state (catalyzed)

$\Delta G^\ddagger_{\text{uncat}}$

$\Delta G^\ddagger_{\text{cat}}$

Dr. Rafiya Sultana's screen



Government Degree College, Medak

Department of Chemistry

Title of the Program: Webinar on “ Carboxylic Acids”

Date of the Program: 28-08-2021

No. of students participated: 60

Resource person: Dr. A. Santoshi, Asst. Prof. Of Chemistry, BJR GDC, Narayanguda.

Brief Report: A webinar on Carboxylic acids was organised for the B.Sc second year students. Dr. A. Santoshi, Asst. Prof. Of Chemistry, BJR GDC, Narayanguda was the resource person. She delivered a wonderful lecture on basic key concepts of carboxylic acids, nomenclature, preparation methods, physical & chemical properties etc. 60 students have participated in the webinar and were enlightened with the information shared by the resource person.



Government Degree College, Medak

DEPARTMENT OF CHEMISTRY

WEBINAR
on
“ Carboxylic Acids”
26-08-2021 at 11.00 A.M



Join Zoom Meeting
Meeting ID: 76927061034
Password : 9hDzKF



Organised by Department Of Chemistry

Dr. A. Sudhakar
Principal, (FAC)

Resource person
Dr. A. Santoshi
Assistant Professor
BJR Govt. Degree
College
Hyderabad

Carboxylic acids

❑ A **carboxylic acid** is an organic compound that contains a (-COOH).

❑ (-COOH) itself made up of

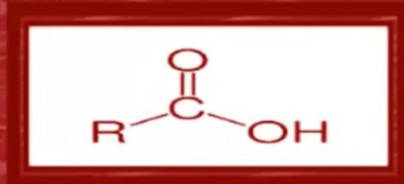
❑ Carbonyl Group



❑ Hydroxyl Group



❑ General Formula will be :-



Carboxylic acids - Nomenclature

❑ For **IUPAC** name, These acids derived from the name of alkanes containing the same number of carbon atom as the acid. But the ending “-e” of the alkane name is replaced with suffix “-oic acid”.

❑ Methane

Methanoic Acid

❑ Propane

Propanoic Acid

❑ For **Common Name**, it is named on the basis of source from which it was isolated.

❑ Butyric Acid

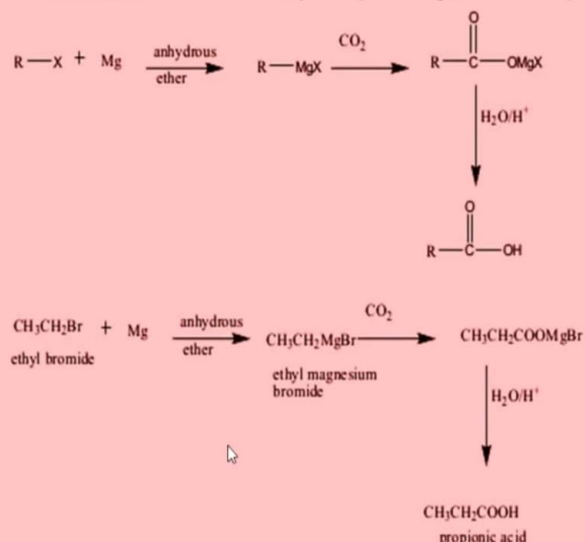
Butyrum means butter

❑ Formic Acid

Formica means Ant

METHODS OF PREPARATION OF CARBOXYLIC ACID

5. Grignard method: Alkyl halide is first converted into corresponding Grignard reagent and allowed to react with carbon dioxide and further hydrolysis to give carboxylic acid.



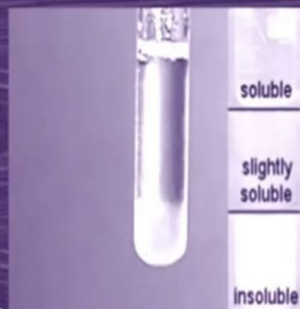
Physical properties

□ Smell:-

First three aliphatic acids C1-C3 are colourless and have pungent smell. The next three acids are colourless and has unpleasent smell.


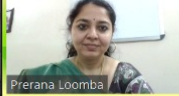


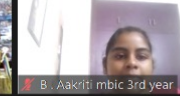
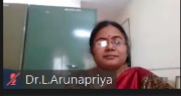

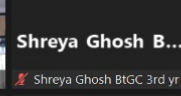


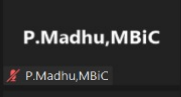

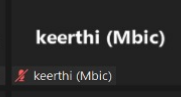
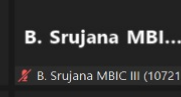
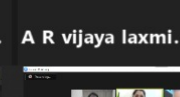
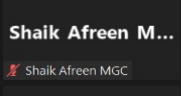
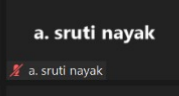
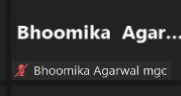



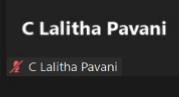

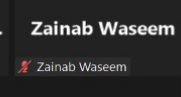
□ Solubility:-

Carboxylic acids are soluble in organic solvents. They are also soluble in water due to hydrogen bonding. As, mass increases, the solubility decreases.



Zoom Meeting

Recording...

 Rajeshwari Dandabattina	 Prerana Loomba	 Dr.A.Santhoshi(Speaker)	 Mary Nygi	 B. Aakriti mbic 3rd year
 Dr.L.Arunapriya	 Sarfray Shaik BTGC 3rd yr	 Shreya Ghosh B...	 Edamboina Devi shree	 Chandu goud
 P.Madhu,MBiC	 Anjani jaya BtG...	 keerthi (Mbic)	 B. Srujana MBI...	 A R vijaya laxmi...
 Shaik Afreen M...	 a. sruti nayak	 Bhoomika Agar...	 Aashish BTGC II..	
 G NIKITHA (107...	 C Lalitha Pavani	 Vaishali Walia B...	 Zainab Waseem	

Snip & Sketch

Snip saved to clipboard
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