

ORGANIC CHEMISTRY

TOPIC 7.

ALKENES:

General formula = C_nH_{2n}

Functional group = $C=C$ (saturated)

REACTIONS:

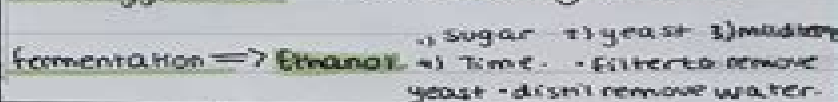


ALCOHOL:

functional group = OH^-

General formula = $C_nH_{2n+1}OH$

REACTIONS:

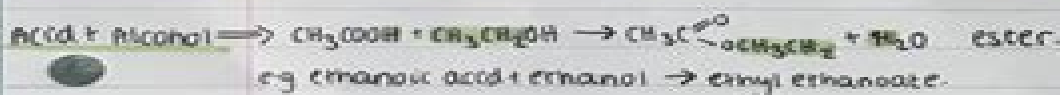
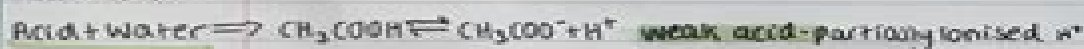


CARBOXYLIC ACIDS:

Functional group = $COOH^-$

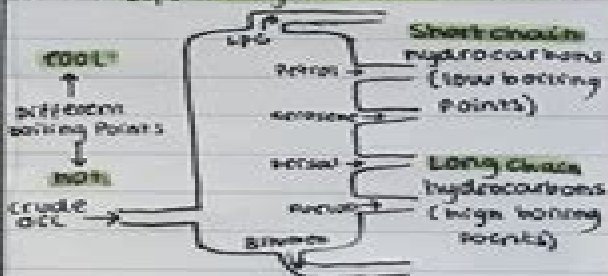
General formula = $C_nH_{2n+1}COOH$

REACTIONS:

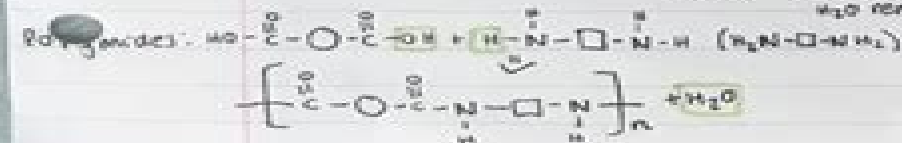
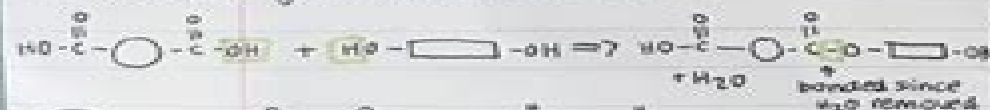
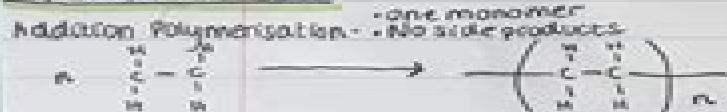


FRACTIONAL DISTILLATION:

used to separate hydrocarbon fractions.



POLYMERISATION:



CRACKING

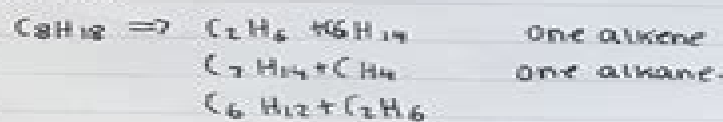
The breaking up the hydrocarbon chains which are too long from fractional distillation into shorter more useful hydrocarbons.

Two Types:

① Steam cracking: Vaporised hydrocarbon + steam

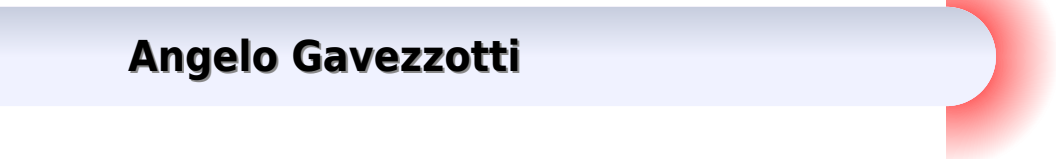
② Catalytic cracking: Vaporised hydrocarbon + catalyst

Example:



Organic Compounds Note Taking Answers

Angelo Gavezzotti



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Model Answers in Organic Chemistry A. J. Showler, T. A. Brown, 2016-06-06 *Model Answers in Organic Chemistry*

Organic Spectroscopy Workbook Tom Forrest, Jean-Pierre Rabine, Michel Rouillard, 2011-07-08 Spectroscopy is used in physical and analytical chemistry for the identification of substances through the spectrum emitted from or absorbed by them. The derivation of structural information from spectroscopic data is now an integral part of many courses in chemistry and related subjects at most universities. This workbook features exercises to help develop the student's understanding of how structures are determined from spectra and to promote the student's own interpretation of different spectra. Covers a large range of spectroscopic data including mass spectrometry, infrared and ^1H and ^{13}C nuclear magnetic resonance typically used in the routine analysis of small sized organic molecules. Presents in full color in a workbook friendly format the spectra for interpretation with explanations and analyses on the facing page. Related to the workbook the authors have an online resource of the problems featured in the workbook available at <http://spectro.unice.fr>. By using the print edition alongside the online spectra students will be able to enhance their understanding of the interpretation of multiple spectra. *Focus on Physical Science California Edition* Michael J. Padilla, 2007

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