

CHAPTER - 13

H YDROCARBONS

HydroCarbons: - A Compound of Carbon and Hydrogen is known as hydro Carbon.

Saturated hydroCarbon: - A Carbon is Said to be Saturated if it Contains only C-C single bonds.

For example: Ethane $\text{CH}_3 - \text{CH}_3$

Unsaturated hydroCarbon: - A hydroCarbon is Said to be Unsaturated if it Contains $\text{C}=\text{C}$ or $\text{C}\equiv\text{C}$ multiple bonds.

example: ethene $\text{CH}_2 = \text{CH}_2$

ethyne $\text{HC} \equiv \text{CH}$

Aromatic HydroCarbon: - benzene and its derivatives are called aromatic Compounds.

Ex:-



Aliphatic Compounds: - Cyclic Compounds which

Notes On Hydrocarbons

Tao Wei



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Hydrocarbon Chemistry George A. Olah, Árpád Molnár, 2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy Diminishing petroleum supplies regulatory problems and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár the completely revised and expanded Second Edition of Hydrocarbon Chemistry provides an unparalleled contemporary assessment of the field presenting basic concepts current research and future applications Hydrocarbon Chemistry begins by discussing the general aspects of hydrocarbons the separation of hydrocarbons from natural sources and the synthesis from C1 precursors with recent developments for possible future applications Each successive chapter deals with a specific type of hydrocarbon transformation The Second Edition includes a new section on the chemical reduction of carbon dioxide focusing on catalytic ionic electrocatalytic photocatalytic and enzymatic reductions as well as a new chapter on new catalysts and activation methods combinatorial chemistry and environmental chemistry Other topics covered include Major processes of the petrochemical industry such as cracking reforming isomerization and alkylation Derivation reactions to form carbon heteroatom bonds Hydrocarbon oxidations Metathesis Oligomerization and polymerization of hydrocarbons All chapters have been updated by adding sections on recent developments to review new advances and results Essential reading for practicing scientists in industry polymer and catalytic chemists as well as researchers and graduate students Hydrocarbon Chemistry Second Edition remains the benchmark text in its field

Lecture-notes on Chemistry for Dental Students Henry Carlton Smith, 1906

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treatment of fossil hydrocarbons covering the source materials biosources metamorphic histories geochemistry classification and molecular structure It discusses the use of fossil hydrocarbons as a viable energy source in our future detailing the preparation processing and conversion technologies as well as discussing the environmental issues that arise from production processing and use of various fossil hydrocarbons Approaches various fossil hydrocarbons as chemically related entities thus dispelling the unwarranted distinctions between crude oils and coal Explains how heavy fossil hydrocarbons can be processed by much the same methods as crude oils for good economic and environmental purpose Illustrates how bitumens oil shales and coals are convertible into synthetic natural gas and oils Shows a path for reasonable energy self sufficiency through conversion of heavy hydrocarbons into synthetic natural gas and oils Augments each chapter with end of chapter notes and a detailed bibliography Provides more than 200 useful tables schematics and figures The Journal of Industrial and Engineering Chemistry ,1918

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