

# HYDROCARBONS



## Hydrocarbon Compounds

Hydrocarbon compounds are compounds that consist only of carbon and hydrogen atoms. Hydrocarbons can be divided into 2, namely:

### a. Saturated Hydrocarbons: single bonds

including saturated hydrocarbons :

- Alkane : open chain ( $C_nH_{2n+2}$ )
- Cycloalkane : closed chain ( $C_nH_{2n}$ )

### b. Unsaturated Hydrocarbons: double bonds

- Alkene : double bond ( $C_nH_{2n}$ )
- Alkyne : triple bond ( $C_nH_{2n-2}$ )
- Alkadiene : two double bonds ( $C_nH_{2n-2}$ )



## Nomenclature of Alkanes

The nomenclature of alkanes is the basis for the nomenclature of other carbon compounds. Therefore the nomenclature of alkanes must be thoroughly understood.

Here are the names of alkanes from  $C_1$ - $C_{10}$  :

| Formula     | Name    | Formula        | Name    |
|-------------|---------|----------------|---------|
| $CH_4$      | methane | $C_6H_{14}$    | hexane  |
| $C_2H_6$    | ethane  | $C_7H_{16}$    | heptane |
| $C_3H_8$    | propane | $C_8H_{18}$    | octane  |
| $C_4H_{10}$ | butane  | $C_9H_{20}$    | nonane  |
| $C_5H_{12}$ | pentane | $C_{10}H_{22}$ | decane  |

Alkene names :

$C_2H_4$  = ethylene

$C_3H_6$  = propene

# Hydrocarbons Note Taking Guide

**JA Banks**



## Hydrocarbons Note Taking Guide:

Manual on Hydrocarbon Analysis ,1977      Manual on Hydrocarbon Analysis A. W. Drews,1998      **Manual on Hydrocarbon Analysis** ASTM Committee D-2 on Petroleum Products and Lubricants,1977      Focus on Physical Science California Edition Michael J. Padilla,2007      Hydrocarbon Processing ,1984-10      **Guidelines for Fire Protection in Chemical, Petrochemical, and Hydrocarbon Processing Facilities** CCPS (Center for Chemical Process Safety),2010-08-13 While there are many resources available on fire protection and prevention in chemical petrochemical and petroleum plants this is the first book that pulls them all together in one comprehensive resource This book provides the tools to develop implement and integrate a fire protection program into a company or facility s Risk Management System This definitive volume is a must read for loss prevention managers site managers project managers engineers and EHS professionals Note CD ROM DVD and other supplementary materials are not included as part of eBook file      **Fluid Catalytic Cracking Handbook** Reza Sadeghbeigi,2012-01-16 Process flow description FCC Feed Characterization FCC Catalysts Chemistry of FCC reactions Unit monitoring and control Products and economics Project management and hardware design Troubleshooting Emerging trends in fluidized catalytic cracking Appendixes Total correlations n d M correlations API correlations ASTM to TBP conversion Definitions of fluidization terms Glossary Index      Guidelines for Investigating Chemical Process Incidents CCPS (Center for Chemical Process Safety),2010-08-13 This book provides a valuable reference tool for technical and management personnel who lead or are a part of incident investigation teams This second edition focuses on investigating process related incidents with real or potential catastrophic consequences It presents on the job information techniques and examples that support successful investigations The methodologies tools and techniques described in this book can also be applied when investigating other types of events such as reliability quality occupational health and safety incidents The accompanying CD ROM contains the text of the book for portability as well as additional supporting tools for on site reference and trouble shooting Note CD ROM DVD and other supplementary materials are not included as part of eBook file      Compressor Handbook for the Hydrocarbon Processing Industries ,1979

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taunus kreis bis seligenstadt am main der limes verläuft dabei über die bewaldeten höhen des taunus und schließt in einem großen bogen das fruchtbare gebiet der wetterau ein

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