

Hydrocarbons Quiz PDF

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Which hydrocarbon is commonly used as a fuel for cooking?
MethaneEthyleneAcetyleneBenzene
Which of the following is an example of an aromatic hydrocarbon?
○ Ethylene
Benzene
Acetylene
○ Propane
Which hydrocarbons are considered unsaturated? (Select all that apply)
Alkanes
Alkenes
Alkynes
Cycloalkanes
Which of the following are properties of hydrocarbons? (Select all that apply)
☐ Non-polar
Soluble in water
High boiling points
Flammable
What is the IUPAC name for C4H10?
○ Methane
○ Ethane

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○ Propane○ Butane
What is the primary source of hydrocarbons?
○ Water○ Soil○ Crude oil○ Air
Which hydrocarbon is known for having a triple bond?
EthaneEthyleneAcetyleneBenzene
What type of reaction do alkenes typically undergo?
SubstitutionAdditionCombustionsDecomposition
What is the simplest hydrocarbon?
○ Ethane○ Methane○ Propane○ Butane
Which of the following are considered aliphatic hydrocarbons? (Select all that apply)
□ Alkanes□ Alkenes□ Alkynes□ Benzene

Which reactions are typical for aromatic hydrocarbons? (Select all that apply)



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☐ Electrophilic substitution
Nucleophilic addition
☐ Radical substitution
Hydrogenation
Which type of bond is found in alkanes?
O Double bond
○ Triple bond
○ Single bond
○ Aromatic bond
Which of the following are common uses of hydrocarbons? (Select all that apply)
☐ PI plastics
Pharmaceuticals
Fertilizers
Fuels
Explain the difference between saturated and unsaturated hydrocarbons.
Explain the difference between saturated and unsaturated hydrocarbons.Saturated hydrocarbons contain only single bonds.
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Saturated hydrocarbons contain only single bonds. Unsaturated hydrocarbons contain only single bonds. Saturated hydrocarbons have double bonds. Unsaturated hydrocarbons have triple bonds. Describe the environmental impact of hydrocarbon combustion. It releases only water vapor. It releases carbon dioxide and pollutants. It has no environmental impact. It only produces energy. What is the significance of the benzene ring in aromatic hydrocarbons? It makes aromatic hydrocarbons more reactive.

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How does the structure of hydrocarbons affect their physical properties?
 It has no effect on properties. It affects boiling and melting points. It only affects solubility. It only affects density.
Discuss the role of hydrocarbons in the petrochemical industry.
They are not used in the petrochemical industry.
They are raw materials for producing various chemicals.
○ They are only used for fuels.
They are only used for plastics.
What are the challenges associated with the use of hydrocarbons as energy sources?
○ There are no challenges.
○ They are renewable resources.
They contribute to climate change.
○ They are always safe to use.
Which hydrocarbons can exhibit isomerism? (Select all that apply)
Alkanes
Alkenes
Alkynes
☐ Aromatics