

## **Alkanes Quiz PDF**

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| What is the main environmental concern associated with burning alkanes?   |
|---|
| <ul><li>Ozone depletion</li><li>Acid rain</li><li>Greenhouse gas emissions</li><li>Water pollution</li></ul>                                    |
| What type of bonds do alkanes primarily contain?  |
| <ul><li>Double bonds</li><li>Triple bonds</li><li>Ionic bonds</li><li>Single bonds</li></ul>  |
| Which of the following are properties of alkanes? (Select all that apply)   |
| <ul> <li>☐ High reactivity</li> <li>☐ Saturated hydrocarbons</li> <li>☐ Strong C-C and C-H bonds</li> <li>☐ Presence of double bonds</li> </ul> |
| How does the structure of alkanes affect their boiling and melting points?  |
|   |



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How are alkanes named according to IUPAC nomenclature rules? Provide an example.



| Which of the following is the simplest alkane?                                    |    |
|---|----|
| ○ Ethane  |    |
| ○ Propane   |    |
| Methane   |    |
| ○ Butane  |    |
|   |    |
| At room temperature, which state are the lower alkanes (C1-C4) typically found in | ?  |
| ○ Solid   |    |
| ○ Liquid  |    |
| ○ Gas   |    |
| ○ Plasma  |    |
| Which of the following alkanes are used as fuels? (Select all that apply)         |    |
| ☐ Propane   |    |
| □ Butane  |    |
| ☐ Hexane  |    |
| ☐ Methanol  |    |
|   |    |
| Explain why alkanes are considered saturated hydrocarbons.                        |    |
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Which of the following statements about alkane isomerism are true? (Select all that apply)



| Alkanes can have structural isomers.                                |  |
|---|--|
| ☐ Isomers have different molecular formulas.                        |  |
| ☐ Isomers have the same molecular formula but different structures. |  |
| ☐ Isomerism is not possible in alkanes.                             |  |