

Number of carbon atoms	Number of hydrogen atoms	Displayed formula e.g. $\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \text{H} \end{array}$	Molecular formula e.g. CH ₄	Name of alkane
1				
2				
3				
4				
5				
6				
7				

Questions

1. Why is sugar not a hydrocarbon even though it contains hydrogen and carbon atoms?
2. If a wet cloth is saturated what does that mean?
3. Why do you think we say that alkanes are saturated?
4. What is the relationship between the number of carbon atoms in an alkane and the number of hydrogen atoms?
5. Can you create a mnemonic to help you remember the names of the first five alkanes?
6. An alkane has 107 carbon atoms. What is the molecular formula?
7. Alkanes belong to the same homologous series, they have similar chemical properties and gradually changing physical properties. What physical properties do you expect to change as the length of the molecules increase?