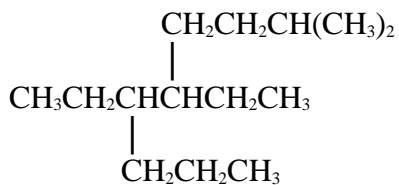


Dr. Jim Bloxton
CHEM 1024 Spring 2021
Prelab Quiz 4
Chapter 11

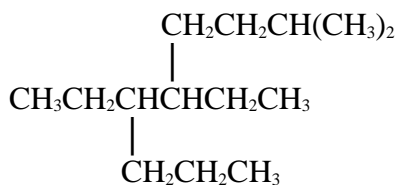
NAME

Group Number H = 1A C = 4A

1. Which of these is the structure for 4-isopropyl-2,4-dimethylnonane.
2. Would you expect 4-isopropyl-2,4-dimethylnonane to be soluble in octane? Explain.
3. Write the structure for iso-butylcyclopentane.
4. Write a line angle formula for the following compound:



5. What is the name of the following compound?



6. Are there any polar bonds in the compound in problem 5? Explain.
7. Draw the structures of two compounds that are constitutional isomers and have the formula C_8H_{18} .
8. Which compound would you expect to have the higher boiling point and why: 3-ethylhexane or 3,3-dimethylhexane?
9. Write the structure for trans-1-bromo-3-methylcyclohexane.
10. Write a balanced equation for the complete combustion of 4-propyloctane.