

Lab – Alkanes

Models help us to understand abstract concepts. Today we will make models of alkane molecules to gain a better understanding of the bonding between atoms.

Safety

No eating or drinking is permitted in the laboratory

Procedure

Make a methane molecule with the materials provided. Sketch your molecule

Make a propane molecule with the materials provided. Sketch your molecule

Make a butane molecule with the materials provided. How many different molecules can you make? Sketch your molecules.

Make a pentane molecule with the materials provided. How many different molecules can you make? Sketch your molecules.

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Organic Chemistry – Song

[35] Report – Alkanes

[1] Please write a neat, legible report.

[1] Give your report an appropriate title

[2] Restate the research questions

[21] Procedure and original observations

Include this sheet and your original observations

[10] Results and conclusions

What is the geometry around a carbon atom in an alkane? How can you depict this on paper?

What is a 1° carbon? Give an example.

What is a 2° carbon? Give an example.

What is a 3° carbon? Give an example.

Are alkanes flat molecules? Explain.