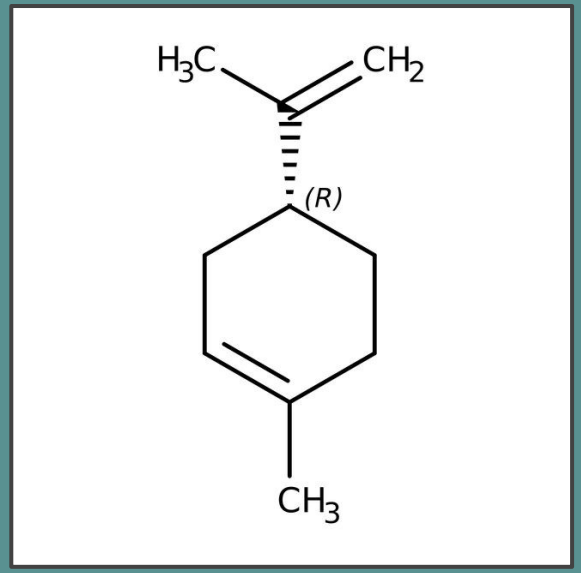
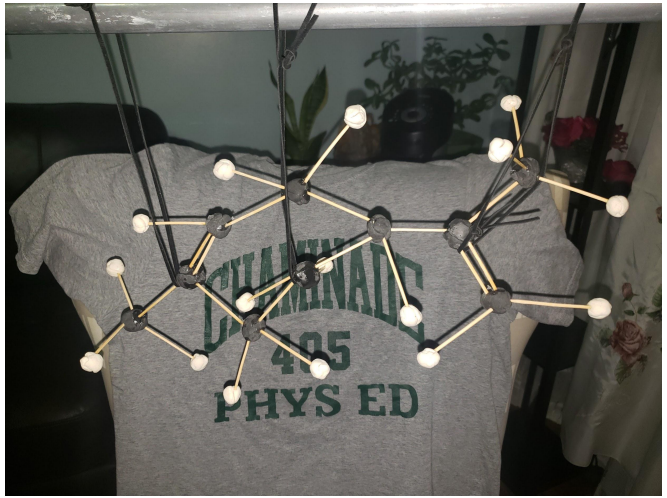


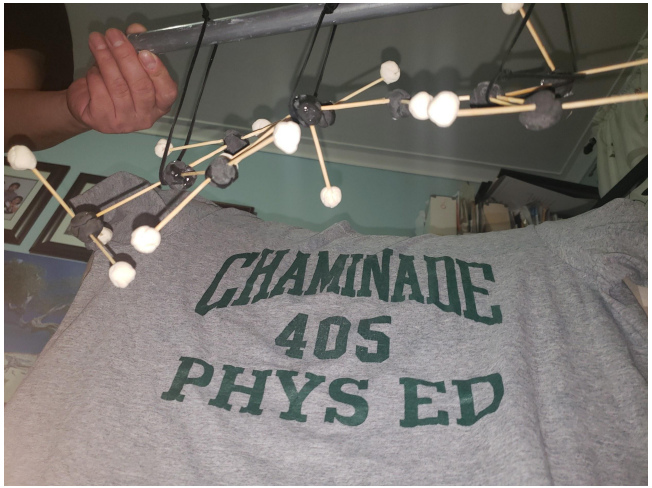
3D Modeling
ISU - D-Limonene

By: Rainier Jorge Jorda

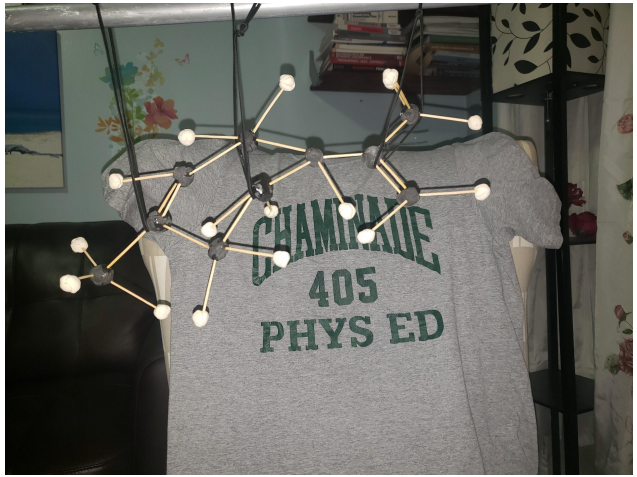
Pictures Of My Model

Scientific Name - 1-methylethenyl-4-cyclohexene
Common Name - Lemon
ID - Limonene
Legend:
Hydrogen - ☐
Carbon - ■





Pictures Of My Model



Written Question:

3.a) Who is credited with the discovery /creation of this molecule/substance?

No one is credited with discovering D-Limonene. It must be due to the fact that this was one of the first few molecules that were discovered way earlier thus the discover name must have been lost through the passage of time.

3.b) Describe the physical and chemical properties of this molecule/substance?

Physical Properties: Limonene is a clear colourless liquid/oil that has a citrus scent and taste.

Chemical properties: Limonene has a boiling point at 348 to 349 ^{o}F, a melting point at -142.4^{o}F, and insoluble in water.

3.c),d),e): Limonene is a natural molecule that came out of nature. This molecule can mostly be spotted in citrus fruits. Thus, it cannot be biologically made or synthesized by humans. It also does not have anyone holding manufacturing right over it except nature as it came from nature.

f) how is this molecule /substance socially significant i.e., impact on society?

The Limonene molecule is very significant in society. It is used in many thing such as foods, cosmetics, cleaning products, and natural insect repellants. It is also being studied that limonene may provide several health benefits anti-inflammatory, antioxidant, anticancer, and heart-disease-fighting properties, however it was found in animals and had not been researched in how it affects in human bodies. Overall, the limonene molecule is very useful for most of the common thing in which society use.

My Sources

https://www.healthline.com/nutrition/d-limonene#benefits

https://pubchem.ncbi.nlm.nih.gov/compound/D-Limonene