

(There is no Prelaboratory Assignment for this exercise. Make entries in your lab notebook for anything that is an *observation*; for your report, turn in this page and the following page.)

Making molecular models

Make models of the following functional groups (additional red O balls will be needed):

make one C-C group

make four -H

make two C=C groups

make four



groups

Make models of the following dicarboxylic acids and observe:

A. Rotation around chemical bonds:

1. Make succinic acid, $\text{HOOC-CH}_2\text{-CH}_2\text{-COOH}$.

Does the molecule rotate around the central C-C bond?

2. Replace the central $\text{CH}_2\text{-CH}_2$ group with a HC=CH group (keep one COOH group on each end).

Does the molecule rotate around the central C=C bond?

3. What is the molecular formula ($\text{C}_x\text{H}_y\text{O}_z$) of your new molecule?

B. Comparison of maleic and fumaric acids.

Maleic acid and fumaric acid have the same molecular formula ($\text{C}_4\text{H}_4\text{O}_4$) and the same condensed structural formula (HOOC-CH=CH-COOH). Your model is either maleic or fumaric acid.

1. Compare your model with others in the class. What differences do you see?

2. Make a second model of the other form.

Geometric Isomers Lab Answers

R Bogdan



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