Chemistry 115 Name

Dr. Cary Willard

Quiz 7a (20 points) May 7, 2014

1. (9 points) Draw three different isomers of C7H16 and name them.

 

n-heptane 2-methylhexane

  

3-methylhexane 2,4-dimethylpentane 3-ethylpentane

   

2,2-dimethylpentane 3,3-dimethylpentane 2,2-dimethylpentane 2,3,3-trimethylbutane

1. (2 points) Draw the structure of 3-octene.



1. (2 points) Draw the structure of 4-ethyl-3,5-dimethyl hexane



1. (6 points) Draw the structure of each the following types of molecules. These must be actual structures of possible molecules, not the general structure for the molecule type.
   1. A ketone



* 1. An ester



* 1. An amine



1. (1 point) How does an alkene differ from an alkyne?

Alkenes have 1 or more double bonds while alkynes have one or more triple bonds.

Chemistry 115 Name

Dr. Cary Willard

Quiz 7b (20 points) May 7, 2014

1. (9 points) Draw three different isomers of C7H16 and name them.

 

n-heptane 2-methylhexane

  

3-methylhexane 2,4-dimethylpentane 3-ethylpentane

   

2,2-dimethylpentane 3,3-dimethylpentane 2,2-dimethylpentane 2,3,3-trimethylbutane

1. (2 points) Draw the structure of 2-hexene.



1. (2 points) Draw the structure of 4-ethyl-3,5-dimethyl octane



1. (6 points) Draw the structure of each the following types of molecules. These must be actual structures of possible molecules, not the general structure for the molecule type.
   1. An aldehyde



* 1. An amide



* 1. An alcohol



1. (1 point) How does an alkene differ from an alkyne?

Alkenes have 1 or more double bonds while alkynes have one or more triple bonds.