

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



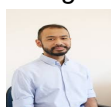
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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

South Pasadena • AP Chemistry

Name: CYRUS  
Period: \_\_\_ Date: \_\_\_/\_\_\_/\_\_\_

## 11 • Chemistry of Carbon

### PRACTICE TEST

- A molecule named propane has the formula:
  - C<sub>3</sub>H<sub>8</sub>
  - C<sub>3</sub>H<sub>6</sub>
  - C<sub>3</sub>H<sub>4</sub>
  - C<sub>3</sub>H<sub>2</sub>

*C<sub>3</sub>H<sub>8</sub>*
- What is the name of a molecule with the formula, C<sub>5</sub>H<sub>12</sub>?
  - pentane
  - hexane
  - butane
  - pentene

*pentane*
- A molecule that fits the pattern, C<sub>n</sub>H<sub>2n+2</sub>, is (n):
  - alkane
  - alkene
  - alcohol
  - acid
- The general formula of the alkene series is:
  - C<sub>n</sub>H<sub>2n</sub>
  - C<sub>n</sub>H<sub>2n+2</sub>
  - C<sub>n</sub>H<sub>2n+4</sub>
  - C<sub>n</sub>H<sub>2n+6</sub>
- How many pi bonds are present in propyne?
  - 1
  - 2
  - 3
  - 4

*C-C≡C*
- The hydrocarbon series that has a double bond between carbon atoms is the:
  - alkane family
  - alkene family
  - alkyne family
  - alkadiene family
- Organic chemistry is the study of:
  - compounds of carbon
  - minerals
  - once-living things
  - compounds produced by living things

*(H<sub>2</sub>O, CO<sub>2</sub>, etc.)*
- In octane, the hybridization(s) of carbon is(are):
  - sp and sp<sup>2</sup>
  - sp<sup>2</sup> only
  - sp<sup>3</sup> and sp<sup>2</sup>
  - sp, sp<sup>2</sup> and sp<sup>3</sup>

*sp<sup>3</sup> and sp<sup>2</sup>*  
*CH<sub>3</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>3</sub>*
- The properties of carboxylic acids include all of the following except:
  - they can be neutralized by bases
  - the molecule has some polarity
  - they ionize completely in water solution
  - they react with alcohols to form esters
- Dimethylbenzene is also known as xylene. 1,3-dimethylbenzene would be the same as:
  - ortho-xylene
  - meta-xylene
  - para-xylene
  - none of these

*meta-xylene*
- The compound
 

$$\begin{array}{c} \text{H}_3\text{C} \\ | \\ \text{C} \\ | \\ \text{H}_3\text{C} \end{array}$$

 is classified as a:
  - alcohol
  - ester
  - acid
  - ketone
- What hybridization is utilized by the oxygen atom in the carbonyl group above?
  - sp
  - sp<sup>2</sup>
  - sp<sup>3</sup>
  - sp<sup>4</sup>

*C=O: SA=3 sp<sup>2</sup>*

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