11 Chemistry - Organic Naming Practice

Date: _____

Name the following structures using IUPAC nomenclature.

2.

$$H_3C$$
 CH_2
 CH_2

3.

$$H_3C$$
 CH_2 CH CH_2

H₃C
$$CH_2$$
 CH_3 CH_3 CH_3

5.

$$CH_2$$
— CH_2
 CH_2
 CH_2
 CH_2

6.

CH
$$_2$$
—HC CH $_2$ CH $_2$ CH $_2$ CH $_2$ CH $_2$ CI

8.

9.

$$\begin{array}{c} \text{CH}_3\\ \text{CH}_2\\ \text{CH}_2\\ \text{CH}_2\\ \text{CH}_2\\ \text{CH}_3\\ \text{CH}_3\\ \end{array}$$

10.

11.

H₃C—
$$\operatorname{CH}_2$$
 Br CH_2 - CH_2 - Br

12.

12.
$$CH_2 - CH_2$$
 CH_2 CH_2

2

13.

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$$CI$$
 CH_3
 CH_2
 CH_2
 CH_2
 CH_3
 CH_3

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Answers

1. 2-methylbutane

2.

$$H_3C$$
 CH_2
 CH_2

1,2-dibromopentane

3. 3-hexene

4.

$$H_3$$
C CH_2 CH_2 CH_3 CH_3

2,2-dimethylpentane

5.
$$CH_2 - CH_2$$
 H_2C CH_2 $CH_2 - CH_2$ cyclohexane

6.

CH₂—HC
$$CH_2 - HC$$

$$CH_2 - HC$$

$$CH_2 - HC$$

$$CH_2 - HC$$

1,3-dichlorocyclohexane

7. 2-chloro-2-butene

8. 2,2-dimethylpropane

9.
$$\begin{array}{c|c} CH_3 \\ CH_2 \\ CH_2 \\ CH_2 \\ CH_2 \\ CH_2 \end{array}$$

3-methylhexane

10. 2-methylbutane

11. 1,1,1-tribromobutane

12. cyclopentane

13.

$$H_3C$$
 CH_2 CH_2 CH_3 CH_3 CH_3

2-bromo-2-chloro-5-methylhexane