



CHEMISTRY

BOOKS - MS CHOUHAN CHEMISTRY (HINGLISH)

CONJUGATED UNSATURATED SYSTEMS

Solved Problem

1. Identify all of the position bearing allylic hydrogen atoms in cryptoxanthin (a natural

pigment)



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2. Provide an explanation for the fact that many more molecules are in the s-trans conformation of 1, 3-butadiene at equilibrium.



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3. Identify all of the position bearing allylic hydrogen atoms in cryptoxanthin (a natural

pigment)



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4. Provide an explanation for the fact that many more molecules are in the s-trans conformation of 1, 3-butadiene at equilibrium.



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Practice Problem

1. Suggest a structural explanation for the fact that the 1, 2-addition reaction of 1, 3-butadiene and hydrogen bromide occurs faster than 1, 4-addition.



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2. Suggest a structural explanation for the fact that the 1, 2-addition reaction of 1, 3-butadiene and hydrogen bromide occurs faster than 1, 4-addition.



Additional Objective Questions Single Correct Choice Type

1.

$$Me_2C=CH-CH_2-CH_2-Cl \xrightarrow[CaCO_3]{H_2O}(X)$$

The major product of the above the reaction is

A.
$$Me-\overset{\circ n}{\underset{\parallel}{C}}-CH_2-CH_2-CH_3$$

$$\mathsf{B.}\, Me_2C = CH - CH_2 - CH_2 - OH$$

C.
$$Me_2C=CH-CH-CH_2-OH$$

Answer: D



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2.

$$Me_2C=CH-CH_2-CH_2-Cl ag{H_2O\over CaCO_3} (X)$$

The major product of the above the reaction is

A.
$$Me-\stackrel{\circ h}{\underset{M_e}{C}}-CH_2-CH_2-CH_3$$

$$\mathsf{B.}\, Me_2C = CH - CH_2 - CH_2 - OH$$

C.
$$Me_2C=CH-CH-CH_2-OH$$

D. 📝

Answer: D



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Additional Objective Questions Multiple Correct Choice Type

1. Consider the given reaction and identify the product P

$$CH_3-CH=CH-CH_2-OH extstyle {HBr \over S_N 1} P$$

A. $CH_3-CH=CH-CH_2-Br$

B.
$$CH_3 - CH - CH = CH_2$$

$$C. CH_2 = CH - CH = CH_2$$

D.
$$CH_3-CH-CH_2-CH_2-OH$$

Answer: A::B



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2. Products formed when HCl adds to 2, 4-hexadiene are

A. 4-chloro-2-hexene

B. 2-chloro-3-hexene

C. 2-chloro-4-hexene

D. 1-chloro-2-hexene

Answer: A::B



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3. Consider the given reaction and identify the

product P

$$CH_3-CH=CH-CH_2-OH \stackrel{HBr}{ \underset{S_N1}{\longrightarrow}} P$$

A.
$$CH_3-CH=CH-CH_2-Br$$

B.
$$CH_3 - \overset{ert}{CH} - CH = CH_2$$

$$\mathsf{C.}\,CH_2=CH-CH=CH_2$$

D.
$$CH_3 - \overset{ert}{CH} - CH_2 - CH_2 - OH$$

Answer: A::B



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4. Products formed when HCl adds to 2, 4-hexadiene are

A. 4-chloro-2-hexene

B. 2-chloro-3-hexene

C. 2-chloro-4-hexene

D. 1-chloro-2-hexene

Answer: A::B



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