



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.



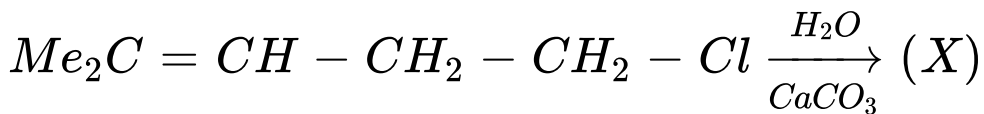
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2. Suggest a structural explanation for the fact that the 1, 2-addition reaction of 1, 3-butadiene and hydrogen bromide occurs faster than 1, 4-addition.

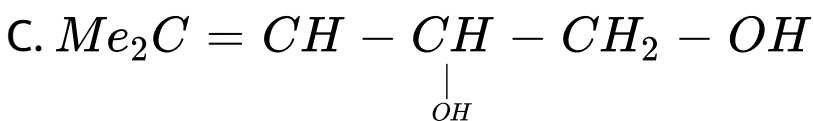
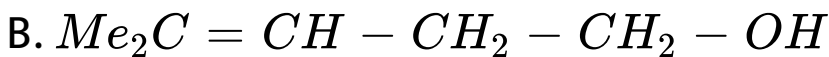
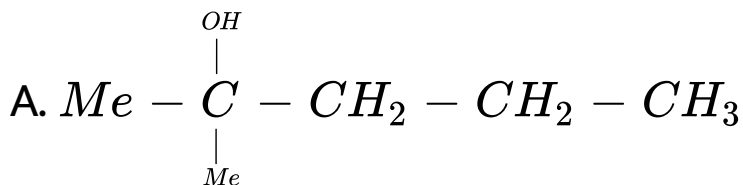


Additional Objective Questions Single Correct Choice Type

1.



The major product of the above the reaction is

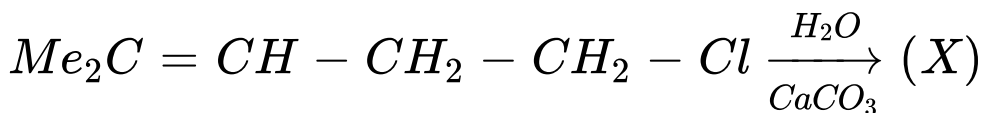


D. 

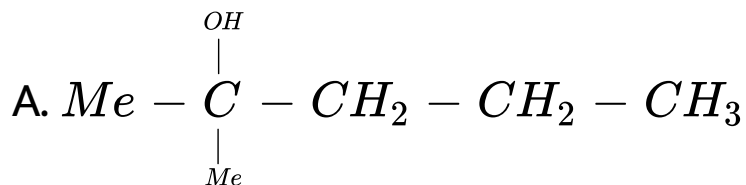
Answer: D

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2.



The major product of the above the reaction is





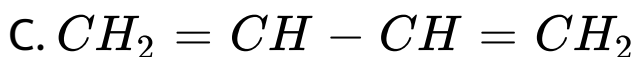
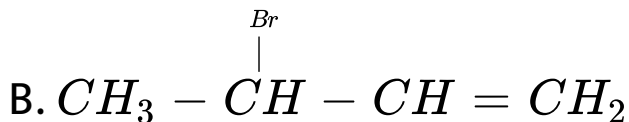
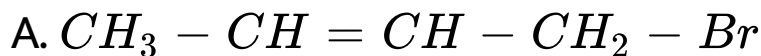
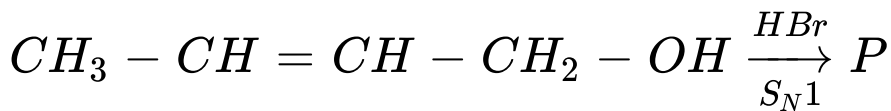
D. 

Answer: D

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Additional Objective Questions Multiple Correct Choice Type

1. Consider the given reaction and identify the product P



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

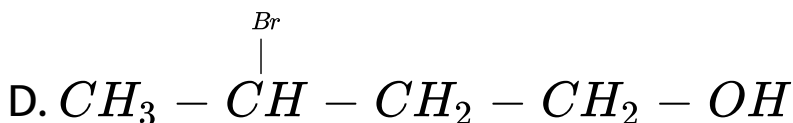
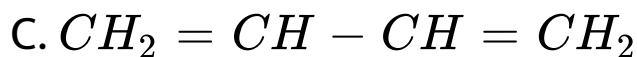
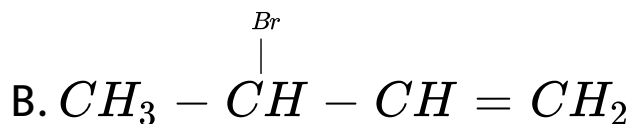
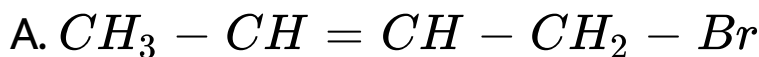
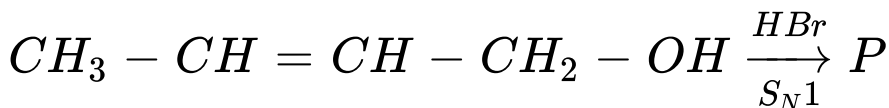
D. 1-chloro-2-hexene

Answer: A::B



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3. Consider the given reaction and identify the product P



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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