

CHM 234, Spring 2018

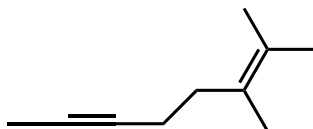
QUIZ #2

(hit the RETURN Button to return to the Main Quiz Page)

QUESTION 1

MC28b

Which is the correct IUPAC name for the following structure?

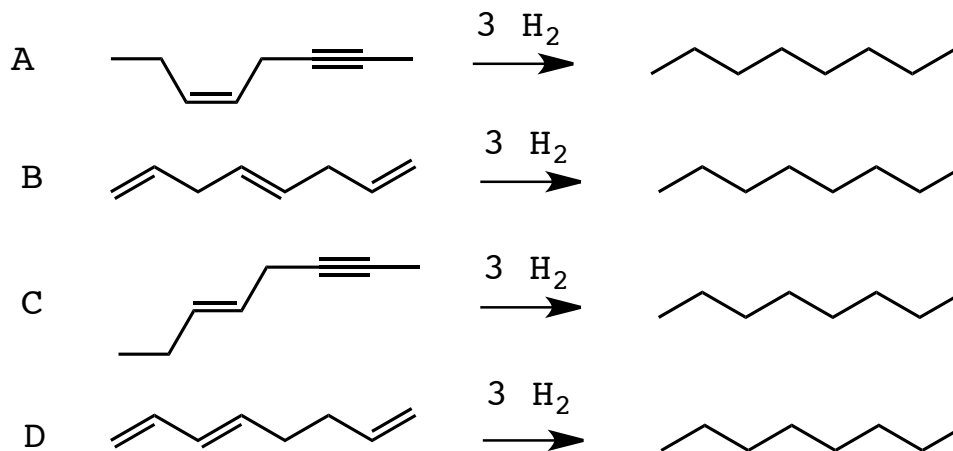


- A. 2,3-dimethyloct-(2Z)-en-6-yne
 - B. 6,7-dimethyloct-6-en-2-yne
 - C. 2,3-dimethyloct-2-en-6-yne
 - D. 6,7-dimethyloct-(6E)-en-2-yne
-

QUESTION 2

MC28c

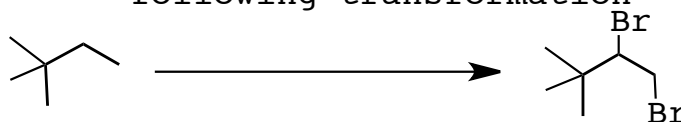
Which is the most exothermic reaction?



QUESTION 3

MC27aa

Give the best reaction sequence to accomplish the following transformation

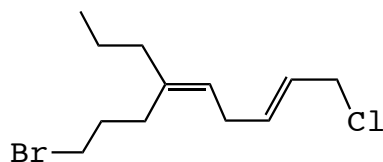


- A 1. $\text{Br}_2/h\nu$ 2. $\text{Na}^+ \text{ } ^-\text{OH}$ 3. $\text{NBS}/h\nu$
B 1. $\text{Br}_2/h\nu$ 2. $\text{Na}^+ \text{ } ^-\text{O-t-Bu}$ 3. $\text{Br}_2/h\nu$
C 1. $\text{NBS}/h\nu$ 2. $\text{Na}^+ \text{ } ^-\text{O-t-Bu}$ 3. Br_2
D 1. $\text{NBS}/h\nu$ 2. $\text{Na}^+ \text{ } ^-\text{OH}$ 3. Br_2
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QUESTION 4

MC26p

Which is the correct IUPAC name for the following structure?

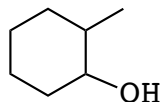
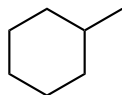


- A 1-bromo-9-chloro-4-propyl-(4E,7E)-nonadiene
B 9-bromo-1-chloro-6-propyl-(2E,5E)-nonadiene
C 1-bromo-9-chloro-4-propyl-(4Z,7E)-nonadiene
D 9-bromo-1-chloro-6-propyl-(2E,5Z)-nonadiene
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QUESTION 5

MC27k

Which correctly describes the reagents/conditions/
reaction sequence to synthesize the provided alcohol
from methylcyclohexane (ignore stereochemistry)?

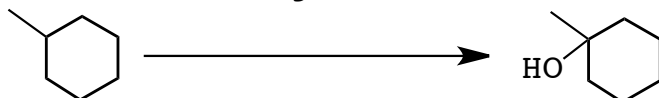


- A** 1. NBS/hv, 2. Na⁺ -OH, 3. Hg(OAc)₂/H₂O, 4. NaBH₄
B 1. Br₂/hv, 2. K⁺ -O-t-Bu, 3. BH₃.THF, 4. -OH/H₂O₂
C 1. Br₂/hv, 2. K⁺ -O-t-Bu, 3. Hg(OAc)₂/H₂O, 4. NaBH₄
D 1. NBS/hv, 2. Na⁺ -OH, 3. BH₃.THF, 4. -OH/H₂O₂
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QUESTION 6

MC27z

Give the best reaction sequence to accomplish the
following transformation

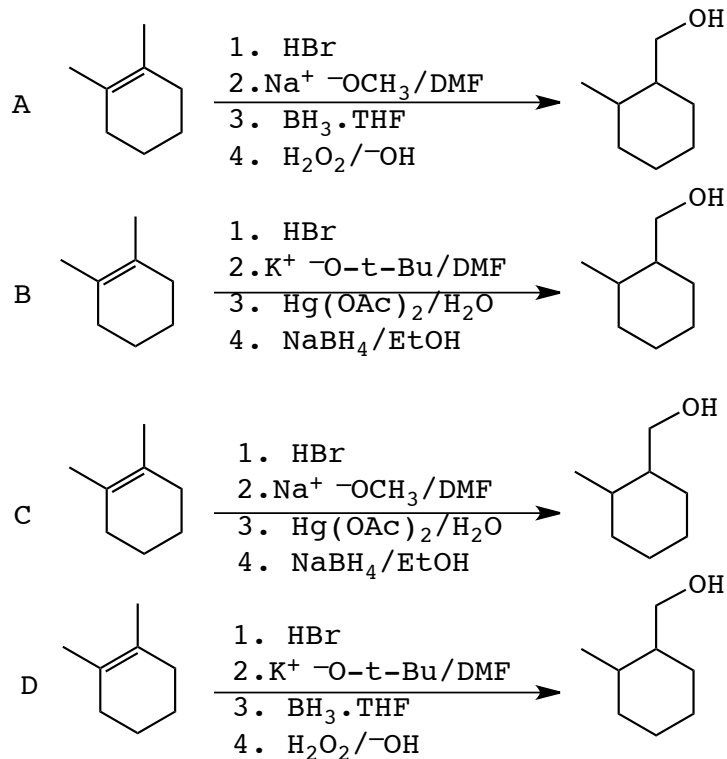


- A** 1. NBS/hv 2. Na⁺ -OH 3. Hg(OAc)₂/H₂O 4. NaBH₄
B 1. Br₂/hv 2. Na⁺ -O-t-Bu 3. BH₃.THF 4. -OH/H₂O₂
C 1. NBS/hv 2. Na⁺ -O-t-Bu 3. BH₃.THF 4. -OH/H₂O₂
D 1. NBS/hv 2. Na⁺ -OH 3. BH₃.THF 4. -OH/H₂O₂
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QUESTION 7

MC27o

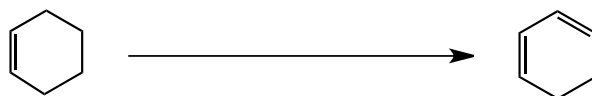
Which describes the best synthesis of those shown below (stereochemistry is ignored in this problem)?



QUESTION 8

MC27x

Which are the best reagents/conditions to perform the following conversion?



- A 1. NBS/hv 2. Na⁺ -OH
B 1. NBS/hv 2. Na⁺ -O-tBu
C 1. Br₂/hv 2. Na⁺ -OH
D 1. Br₂/hv 2. Na⁺ -O-tBu
-

QUESTION 9

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I believe I can earn an A grade in organic chemistry

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 10

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I am confident that I will do well on organic chemistry tests

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 11

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I believe that I can master organic chemistry knowledge and skills

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 12

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I'm sure I can understand organic chemistry

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always