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

MC28c

Which is the most exothermic reaction?

A. 3 H₂

B. 3 H₂

C. 3 H₂

D. 3 H₂
QUESTION 3
MC27aa
Give the best reaction sequence to accomplish the following transformation


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
QUESTION 5
MC27k
Which correctly describes the reagents/conditions/reaction sequence to synthesize the provided alcohol from methylcyclohexane (ignore stereochemistry)?

D 1. NBS/hv, 2. Na⁺ –OH, 3. BH₃·THF, 4. –OH/H₂O₂

QUESTION 6
MC27z
Give the best reaction sequence to accomplish the following transformation

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
QUESTION 7

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

A

1. HBr
2. Na\(^{+}\) –OCH\(_3\)/DMF
3. BH\(_3\).THF
4. H\(_2\)O\(_2\)/–OH

B

1. HBr
2. K\(^{+}\) –O-t-Bu/DMF
3. Hg(OAc)\(_2\)/H\(_2\)O
4. NaBH\(_4\)/EtOH

C

1. HBr
2. Na\(^{+}\) –OCH\(_3\)/DMF
3. Hg(OAc)\(_2\)/H\(_2\)O
4. NaBH\(_4\)/EtOH

D

1. HBr
2. K\(^{+}\) –O-t-Bu/DMF
3. BH\(_3\).THF
4. H\(_2\)O\(_2\)/–OH

QUESTION 8

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
D 1. Br\(_2\)/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