Preview Assessment: 326WS6

Name 326WS6

Instructions

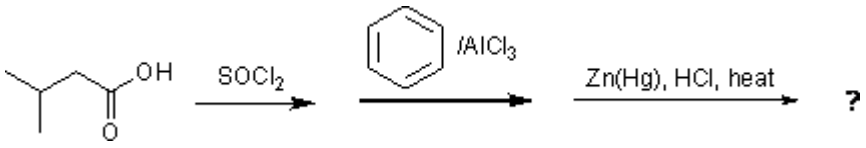
Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

Question Completion Status:

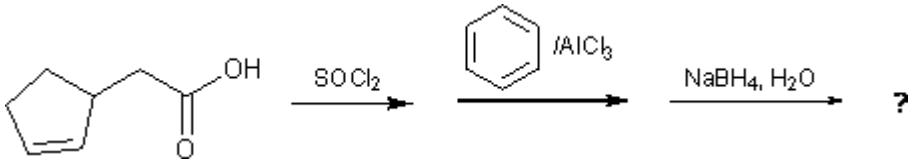
Question 1 **1 points** Save

Draw the structure of the major product of the following reaction sequence:



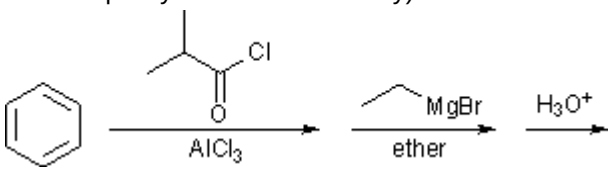
Question 2 **1 points** Save

Draw the structure of the major product of the following reaction sequence:



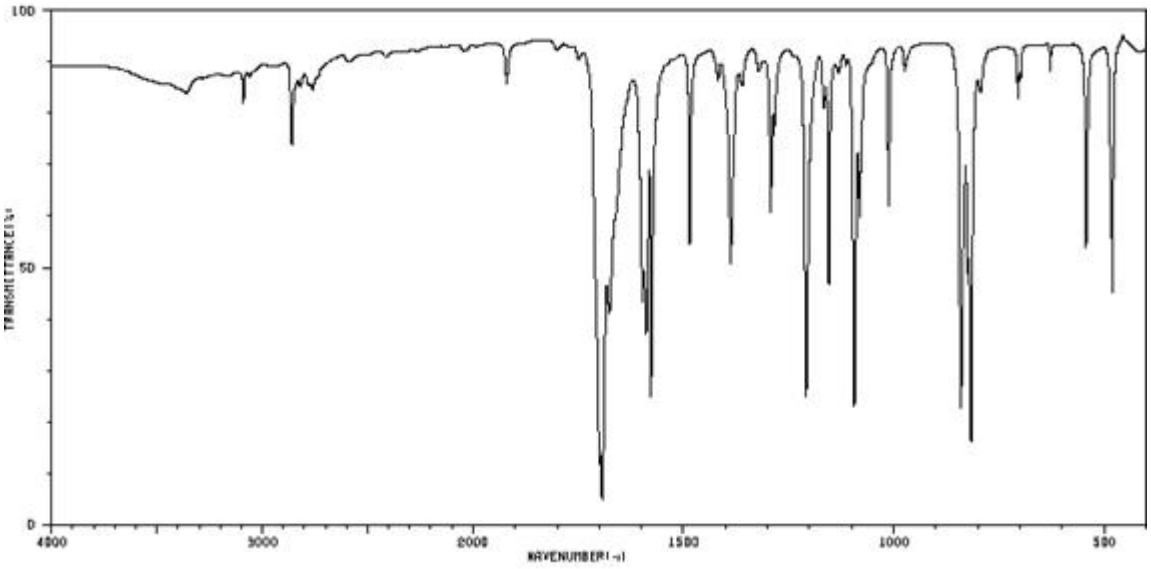
Question 3 **1 points** Save

Draw the structure of the major product of the following reaction sequence (you do not need to specify the stereochemistry):



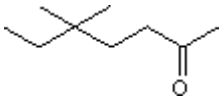
Question 4 **1 po**

A compound is found by mass spectrometry to possess the formula $C_6H_8O_2$. Its ^1H NMR spectrum shows only a singlet, at delta 2.73. Its ^{13}C NMR spectrum shows only two signals, at δ 210 ppm and δ 41 ppm. Its infrared spectrum is shown below. Draw the structure of this compound.



Question 5 **1 points** Save

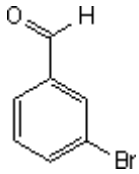
What is the correct IUPAC name for the compound below?



- 5,5-Dimethyl-2-heptanone
- 5-Ethyl-5,5-dimethyl-Methyl-2-octanone
- 5-Ethyl-5-methyl- 2-hexanone
- 5,5-Dimethyl-2-octanone
- 3,3-Dimethyl-6-heptanone

Question 6 **1 points** Save

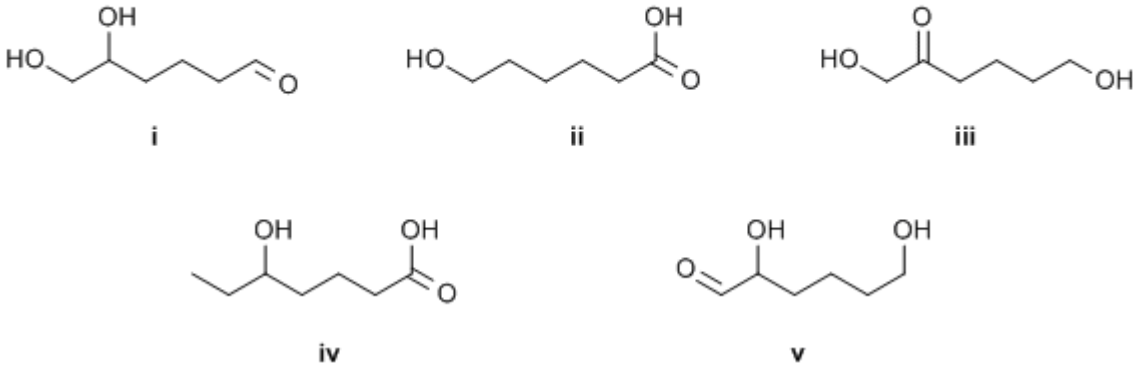
Which is the proper name for the compound below?



- 5-Bromobenzaldehyde
- 5-Aldehydobromobenzene
- 3-Bromobenzaldehyde
- 3-Aldehydobromobenzene

Question 7 **1 pc**

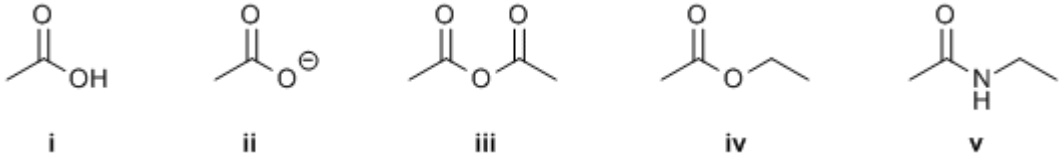
The compound shown below is a cyclic hemiacetal. It is in equilibrium with an acyclic open chain compound X. Identify the structure of compound X.



- i
- ii
- iii
- iv
- v

Question 8 **1 points**

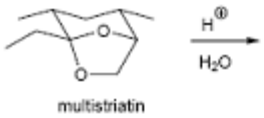
Which of the following compounds would have the highest frequency C=O absorption band in its IR (infrared) spectrum.

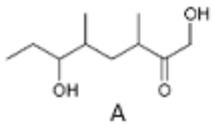


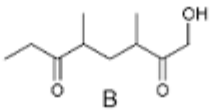
- i
- ii
- iii
- iv
- v

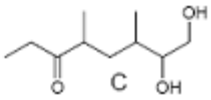
Question 9 **1 points** Save

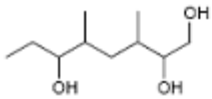
Choose the product of the following reaction.

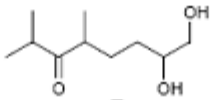



A


B


C


D


E

- A
- B
- C
- D
- E

Save Submit