

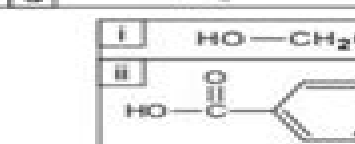
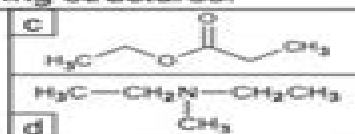
Organic chemistry review

1. Draw structures for the following compounds:

- 2-methylbutane
- 3,3-dichlorohexane
- 4-ethyl-3,3,4-trimethyldecane
- ethanamide
- cis-1,3-dimethylcyclohexane

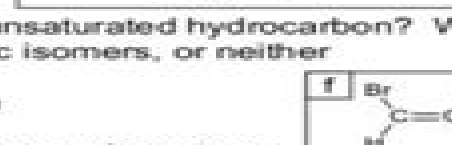
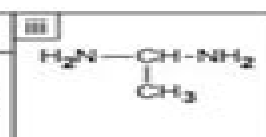
- 2-methyl-4-octanol
- propanal
- methyl ethanoate
- methyl propyl ether
- 2-pentanone

2. Write the correct name for each of the following structures:



3. Draw the polymers that result from:

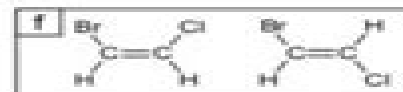
- the reaction of i) and ii)
- the reaction of ii) and iii)
- the addition of ethene molecules
- the addition of 3-hexene molecules



4. What is the difference between a saturated and unsaturated hydrocarbon? Which is benzene?

5. Identify each pair as structural isomers, geometric isomers, or neither

- cyclopentane, pentane
- 1,1-dichloroethene, trans-1,2-dichloroethene
- hexanoic acid, propyl propanoate
- cis-1,2-dichlorocyclopentane, trans-1,2-dichlorocyclopentane
- cis-1,2-dichlorocyclopentane, trans-1,3-dichlorocyclopentane



6. $\text{C}_2\text{H}_6\text{O}$ exists as two structural isomers. Draw each isomer and name each. Predict the relative boiling point and solubility in water of the two isomers. Explain.

7. Indicate if the functional group contains a carbonyl, carboxyl or hydroxyl group:

	alcohol	ketone	ester	carboxylic acid
carboxyl group				
carbonyl group				
hydroxyl group				

8. In each case indicate how the following molecule can be made by drawing the reaction, naming all products and reactants, and naming the type of reaction that is occurring.

- 1,2-dichlorocyclopentane (from a hydrocarbon)
- 1,1-dichlorocyclopentane (from a hydrocarbon)
- A condensation reaction to make butyl methanoate
- The reactants from c) (not using hydrogenation)

9. Using $\text{Br}_2(\text{aq})$, how can you easily distinguish between pentane, 1-pentene, and 1-pentyne?

10. What is wrong with the following names?

- 3-methyl-2-butyne
- 1,2-dichlorocyclobutane
- 3-methyloctene

- 2,3-dimethyl-4-ethylnonane
- 1-butanone
- 2-ethyl-2-methylhexane

Additional practice (pg. 1049-1053): 24.5, 7, 11, 12, 13, 14, 17, 19, 32, 36, 37

Organic Chemistry Review Questions Answers

Yi-Tong Ma



Organic Chemistry Review Questions Answers:

The book delves into Organic Chemistry Review Questions Answers. Organic Chemistry Review Questions Answers is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Organic Chemistry Review Questions Answers, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Organic Chemistry Review Questions Answers
- Chapter 2: Essential Elements of Organic Chemistry Review Questions Answers
- Chapter 3: Organic Chemistry Review Questions Answers in Everyday Life
- Chapter 4: Organic Chemistry Review Questions Answers in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Organic Chemistry Review Questions Answers. The final chapter will summarize the key points that have been discussed throughout the book.

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