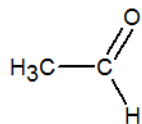
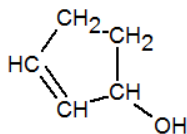


Circle each functional group and identify the functional groups by name.

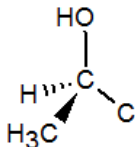
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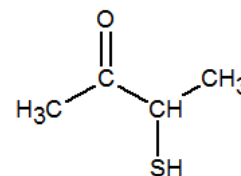
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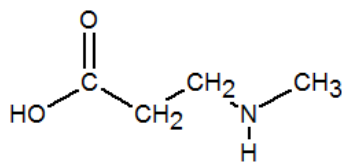
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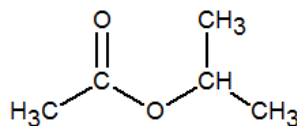
4.



5.



6.



7. Draw constitutional isomers for 2-methyl-2-butene

8. Draw two diastereomers for 1,2-dibromocyclobutane

9. Draw a constitutional isomer to propanoic acid ($\text{CH}_3\text{CH}_2\text{COOH}$) that contain:

a. an ester

b. an ether and aldehyde

c. a cyclic structure

10. Draw structures for the following compounds. If the name is INCORRECT, fix that

a. 2,2,4-trimethylhexane

b. 4-isopropyloctane

c. 1-ethyl-5-methylcyclohexane

d. 2-propylpentane

e. butanone

f. cyclopentene

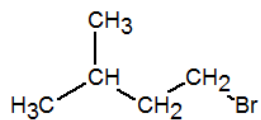
g. 3-ethylcyclopentanol

h. 4,4-dichloropentanoic acid

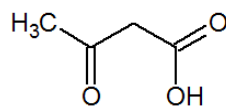
i. tert-butyl chloride

11. Name the following molecules using IUPAC rules

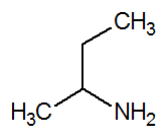
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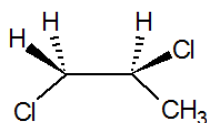
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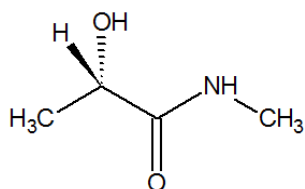
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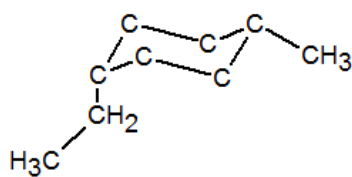
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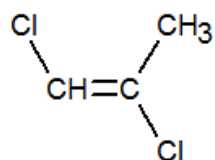
5.



6.



7.



8.

