

UNIT 2 - ORGANIC CHEMISTRY

Lesson 1

Families of Organic Compounds

Learning Goals

- ❑ I will be able to recognize *alkanes, alkenes, alkynes, alcohols, ethers, aldehydes, ketones, carboxylic acids*, and *esters* based on the presence of **functional groups**.

Organic Chemistry

is the study of the structure, properties, and reactions of **carbon**-containing compounds.

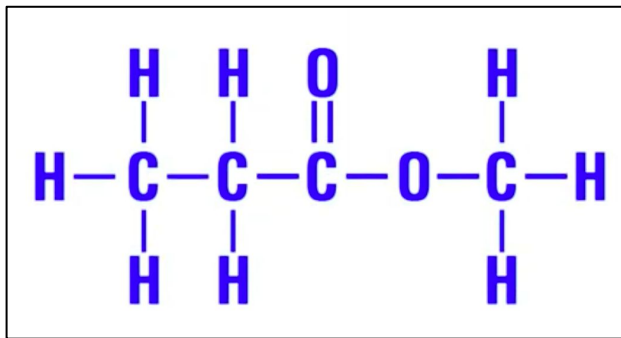
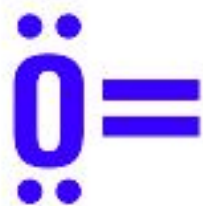
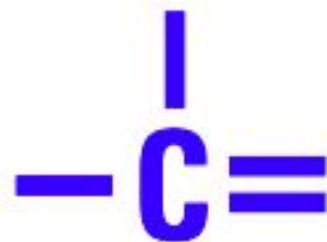
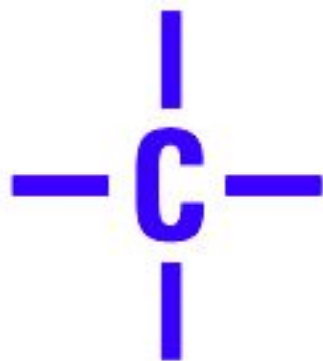
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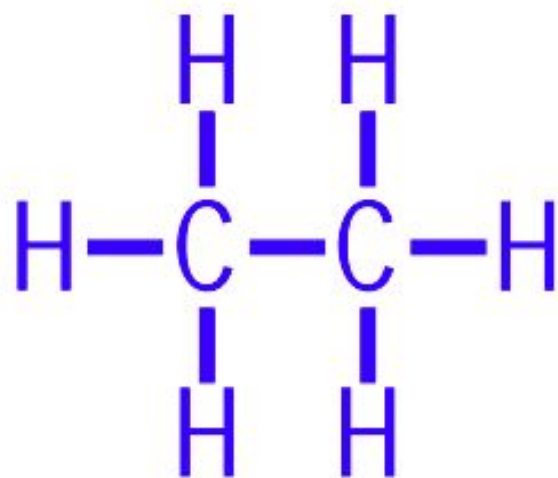
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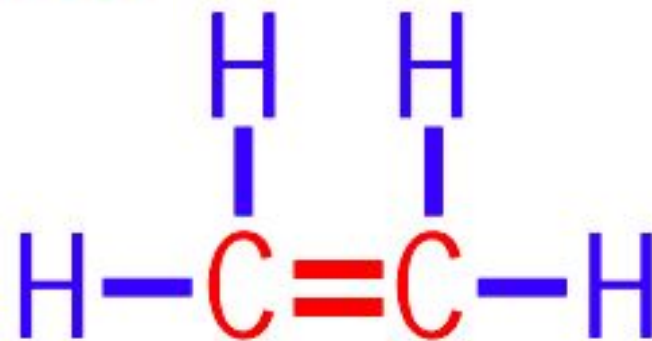
* A	58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61 Pm (145)	62 Sm 150.4	63 Eu 152.0	64 Gd 157.3	65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
	90 Th 232.0	91 Pa (231)	92 U 238.0	93 Np (237)	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)



HYDROCARBONS



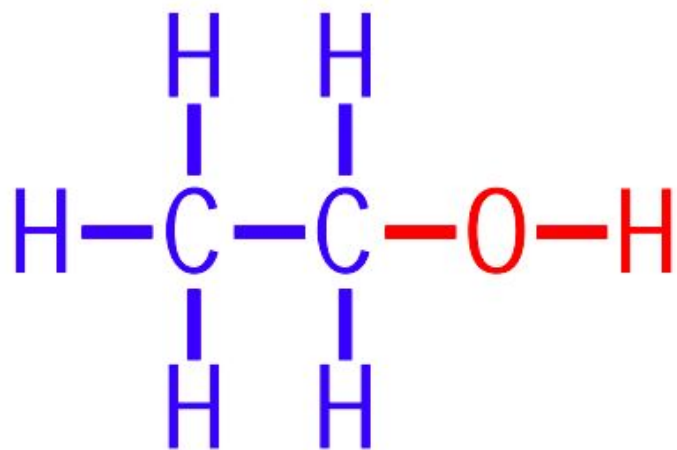
ALKANE



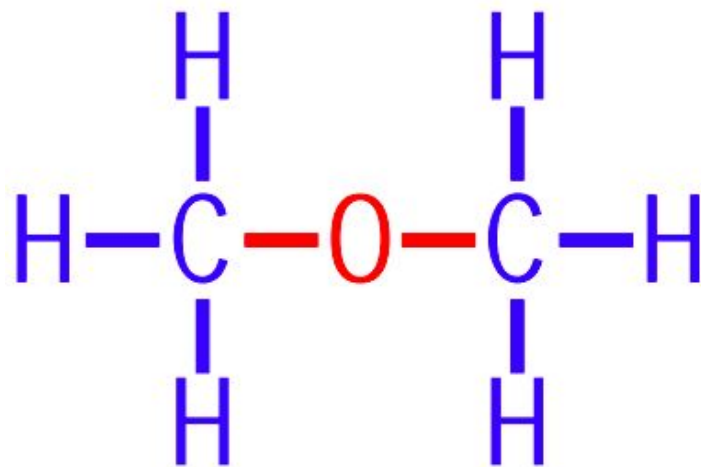
ALKENE



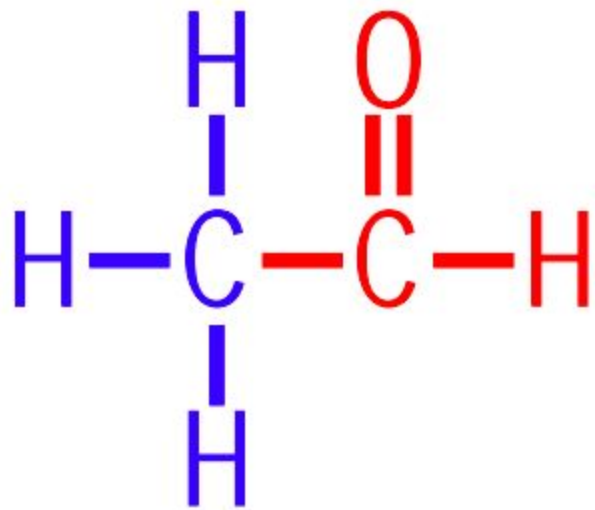
ALKYNE



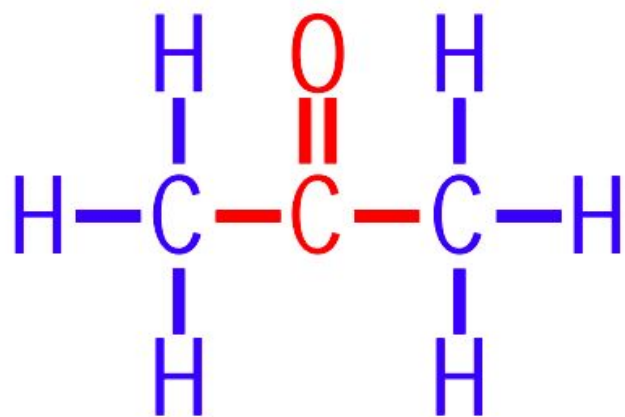
ALCOHOL
(hydroxyl group)



ETHER



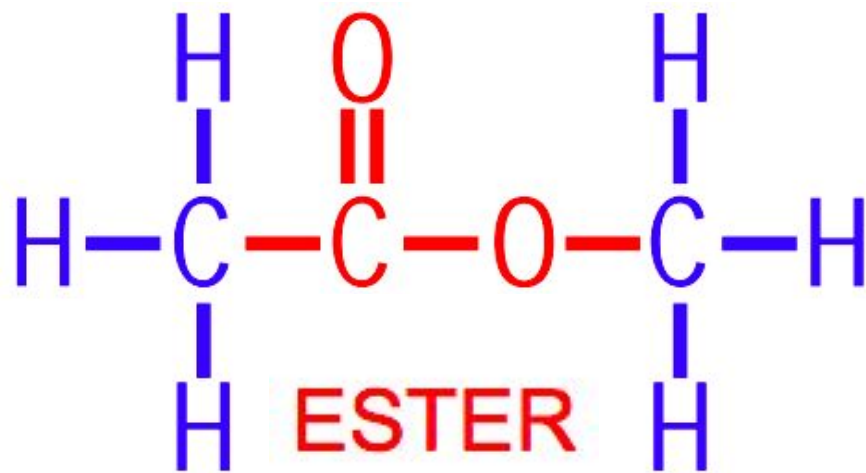
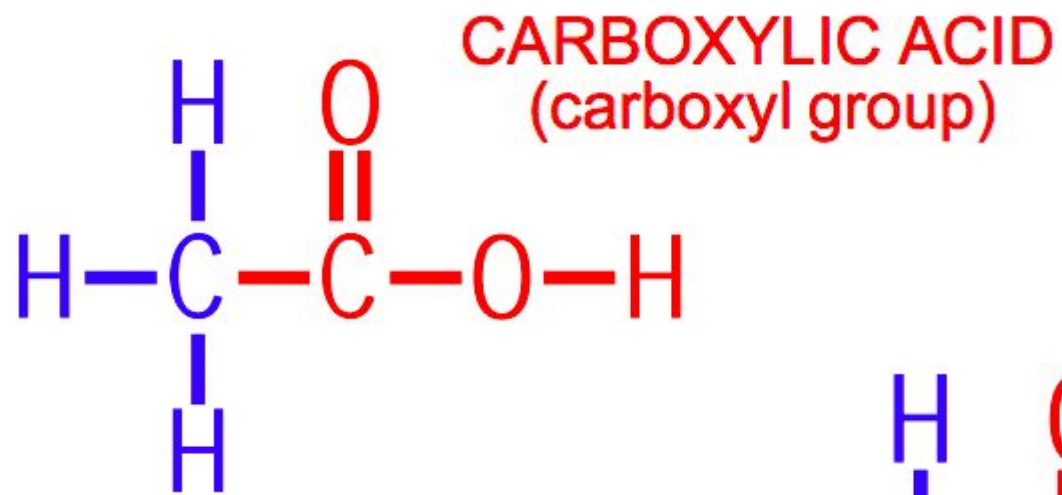
ALDEHYDE

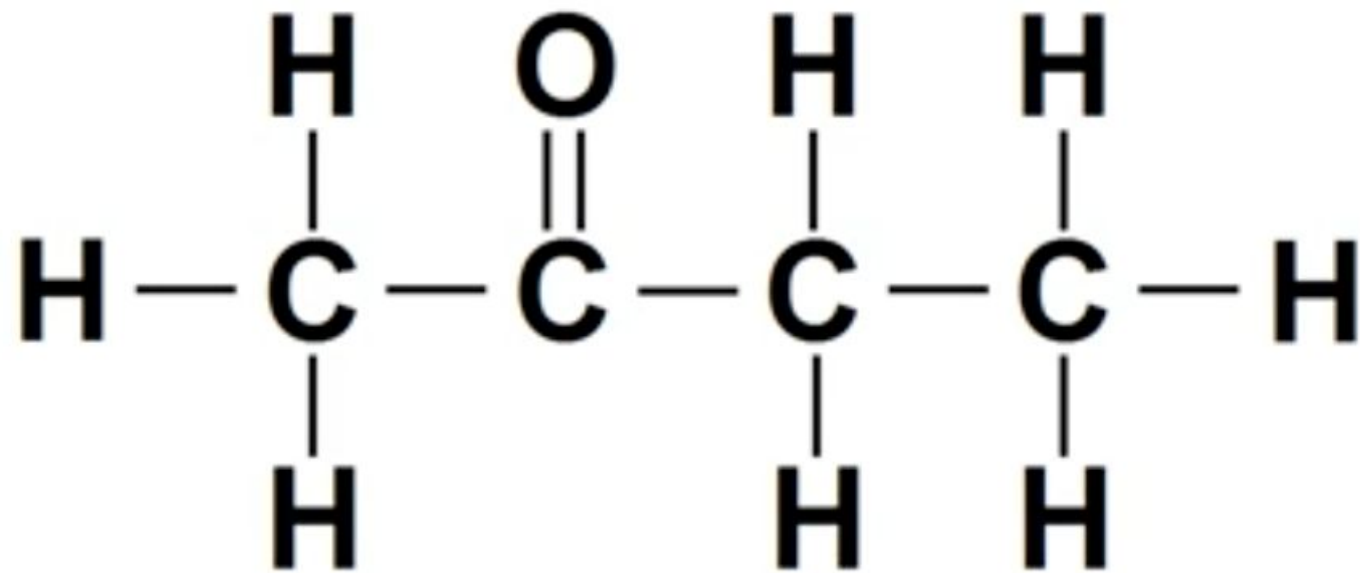


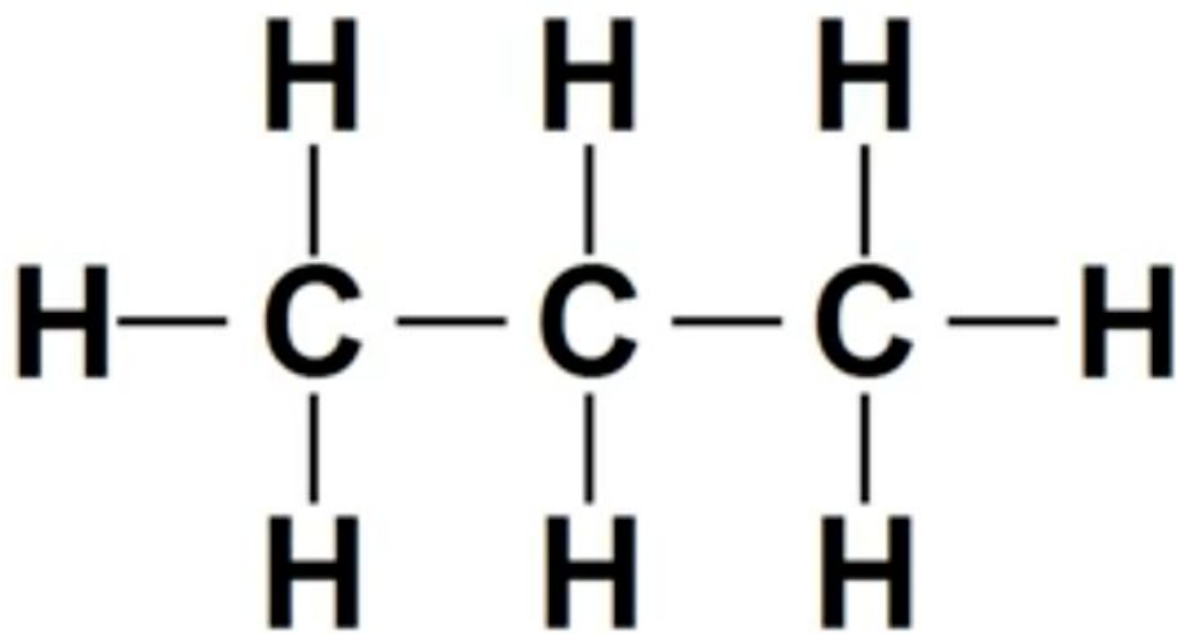
KETONE

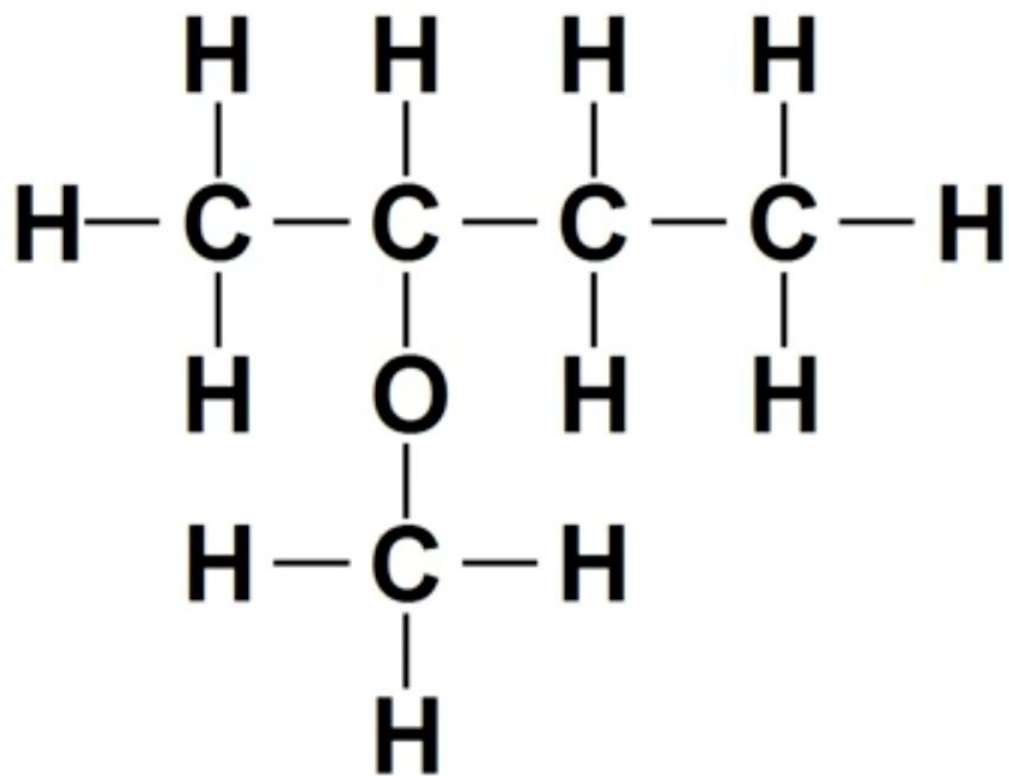


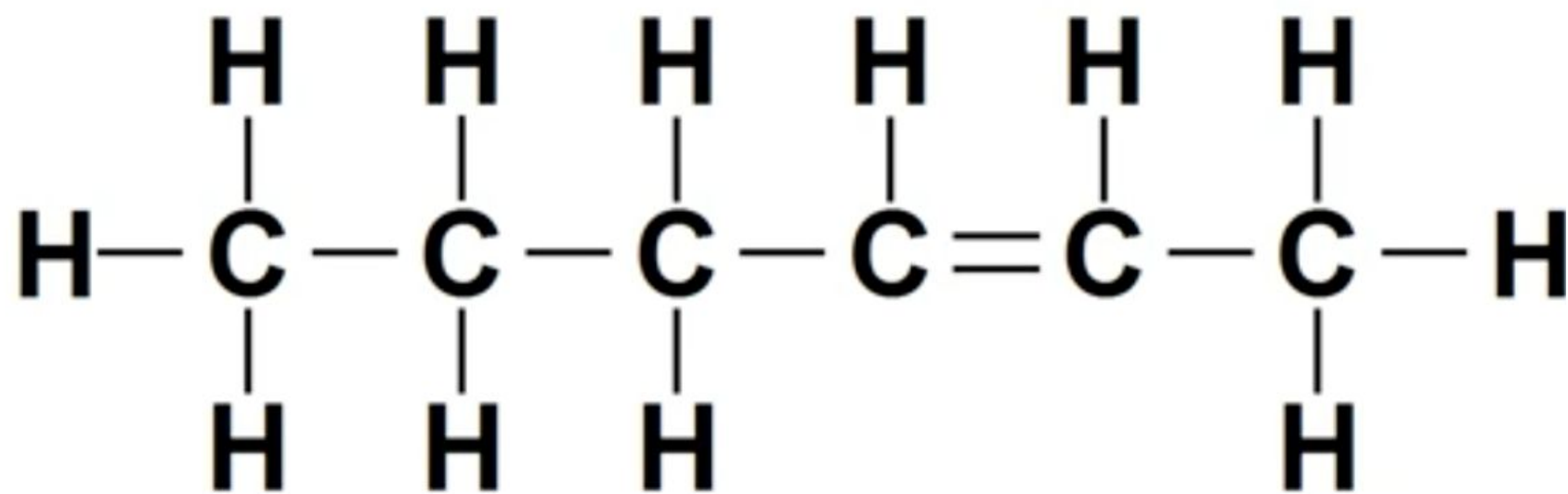
carbonyl group

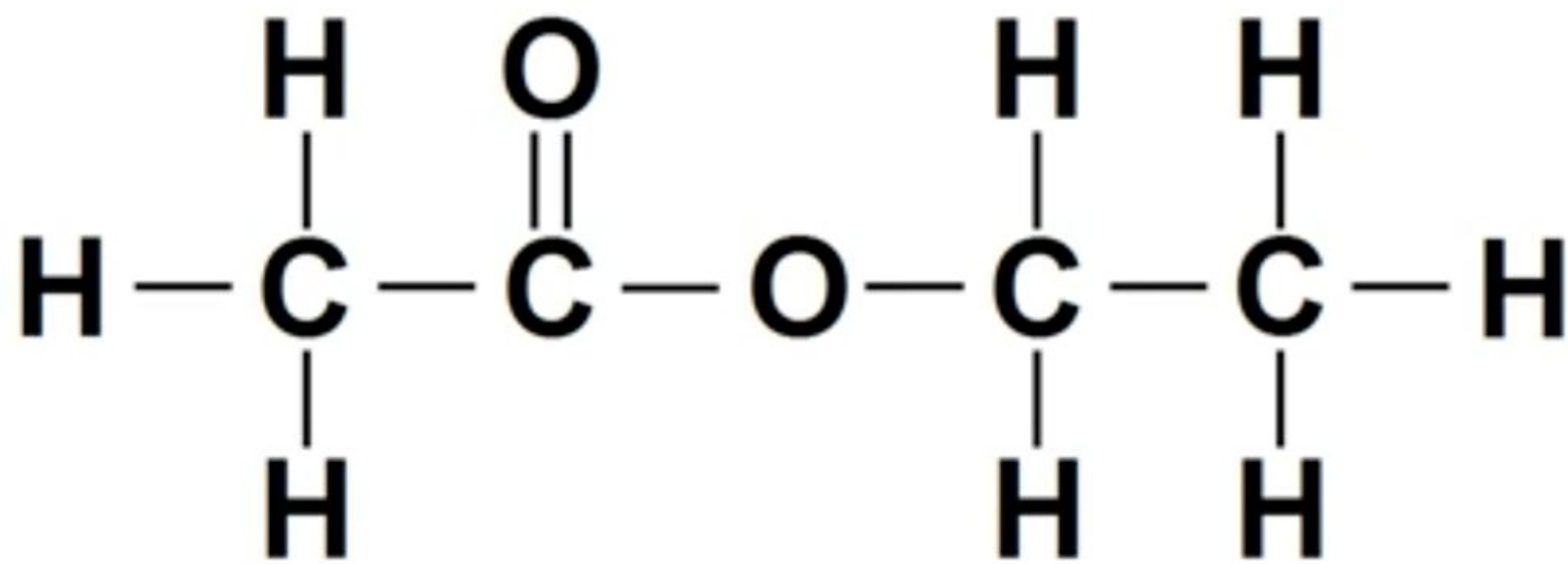


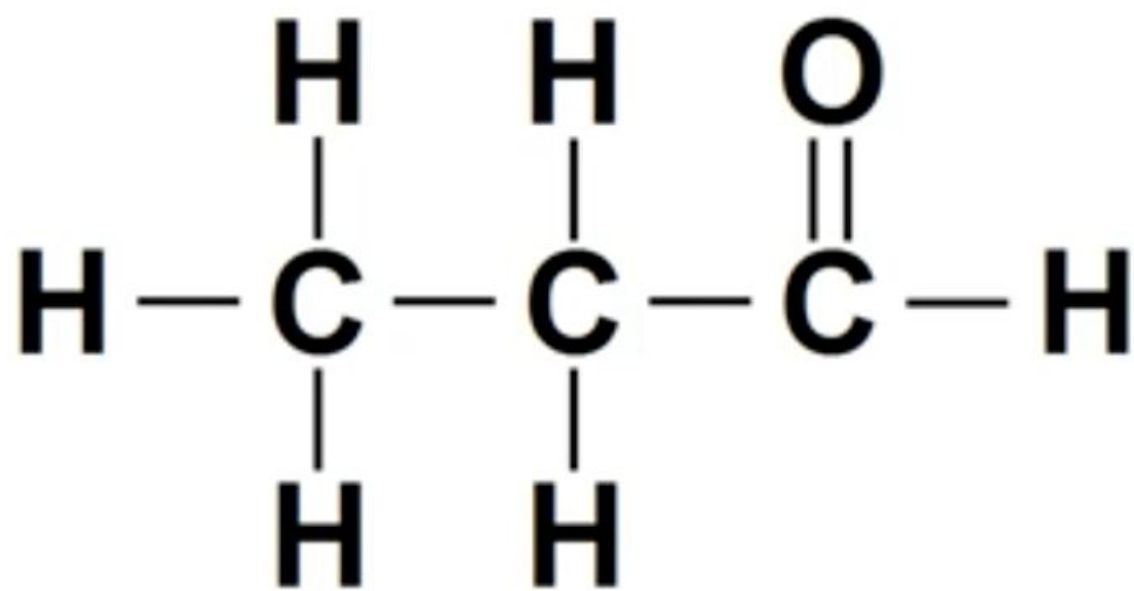


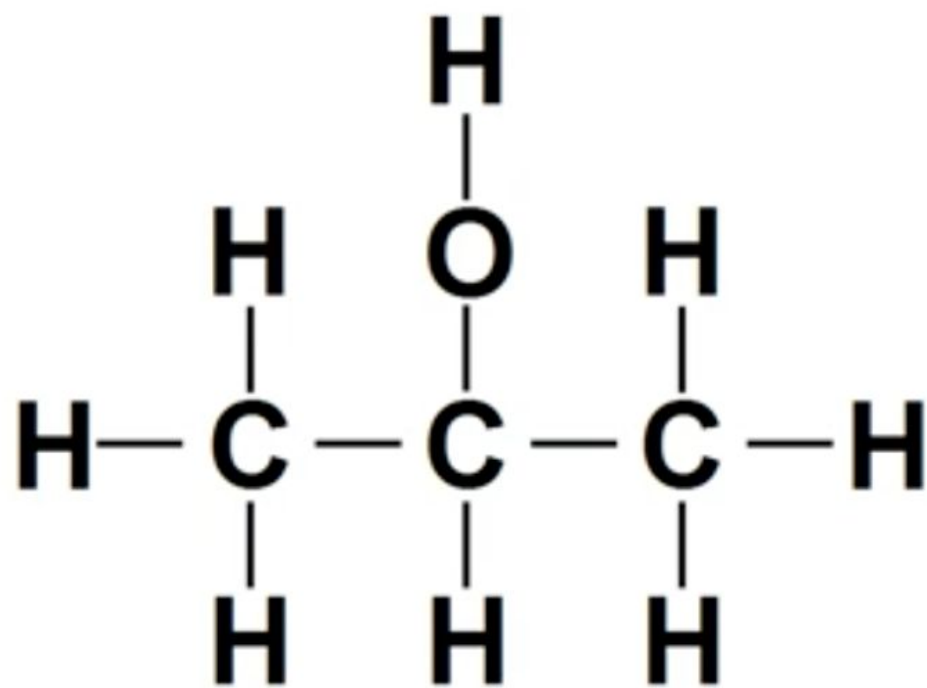


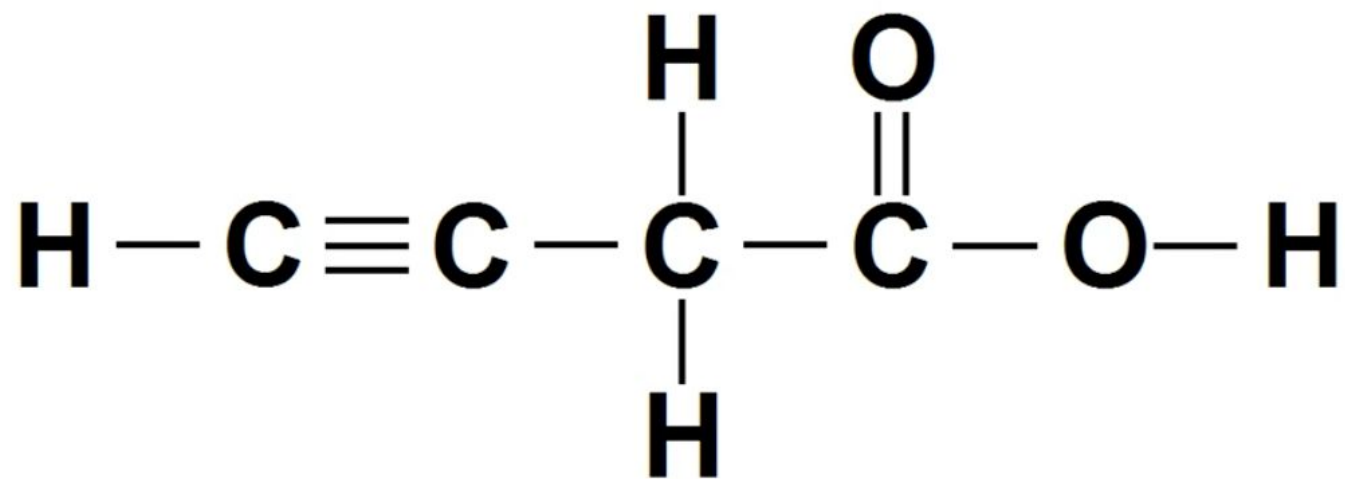












Success Criteria

- ❑ Based on the presence of **functional groups**, I can recognize
 - ❑ *alkanes*
 - ❑ *alkenes*
 - ❑ *alkynes*
 - ❑ *alcohols*
 - ❑ *ethers*
 - ❑ *aldehydes*
 - ❑ *ketones*
 - ❑ *carboxylic acids*
 - ❑ *esters*