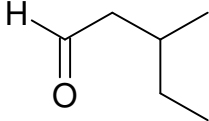
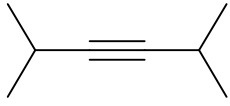
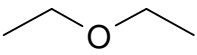
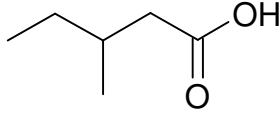
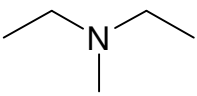
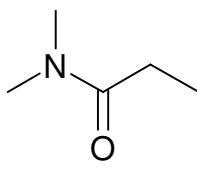
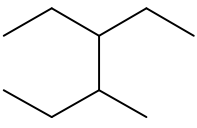
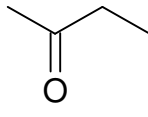
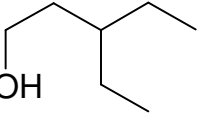
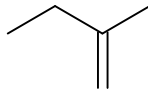
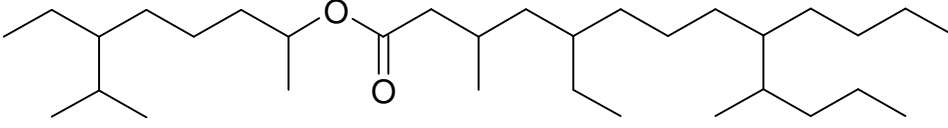


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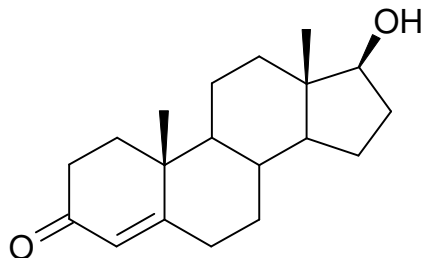
SCH 4U Organic Chemistry
Functional Groups and Chemical Formula

1. For each of the following structures write the name of the family of organic compounds (i.e. the functional group or lack thereof) to which each belongs.

 aldehyde	 alkyne
 ether	 carboxylic acid
 amine	 amide
 alkane	 ketone
 alcohol	 alkene
 ester	

2. Provide chemical formula for each structure (i.e. $C_xH_yNO_2$)

$$H = [2C + 2] - 2(\text{deg. unsat.}) - X + N$$

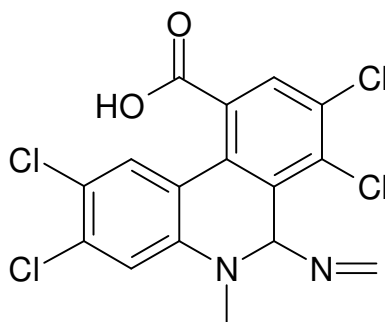


Molecular Weight =288.43

Exact Mass =288

Molecular Formula = $C_{19}H_{28}O_2$

Molecular Composition =C 79.12% H 9.78% O 11.09%



Molecular Weight =404.08

Exact Mass =402

Molecular Formula = $C_{16}H_{10}Cl_4N_2O_2$

Molecular Composition =C 47.56% H 2.49% Cl 35.09% N 6.93% O 7.92%

