Organic Chem Problem Set #1

Answers

O-1

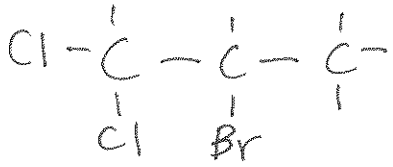
Name each molecule, or draw them if the name is provided.
H atoms don't have to be drawn.

Draw pentane

Draw 2butene

Draw 3heptyne

Draw 2bromo,1,1 dichloropropane

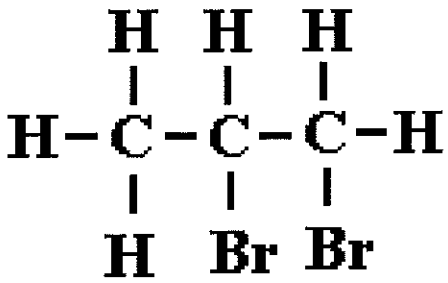


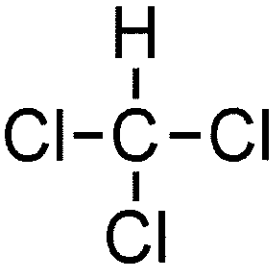
Draw 3,4dichloro, 1pentyne

Draw fluoroethyne

Name these 5

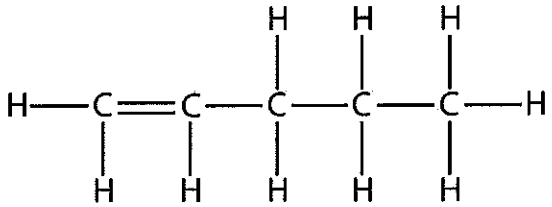
1, 2 dibromo propane

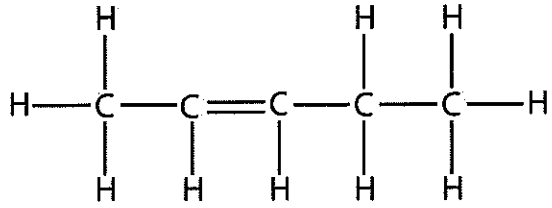




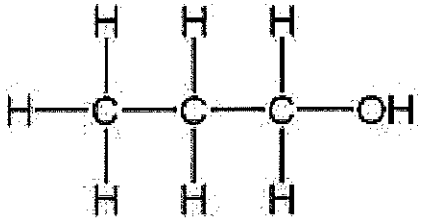
trichloro methane

1-pentene



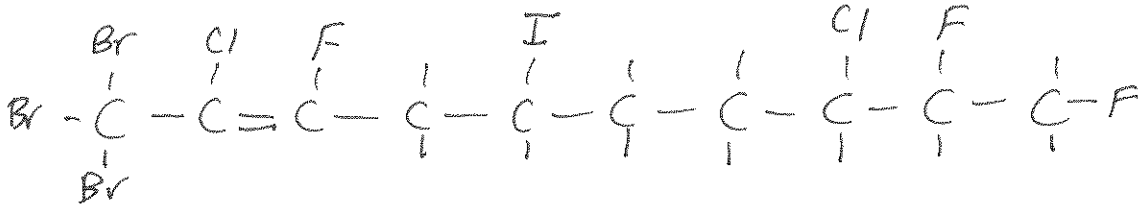


2-pentene



1-propanol

Draw 1,1,1 tribromo,2,8 dichoro, 3,9,10 triflouro, 5 iodo-2decene



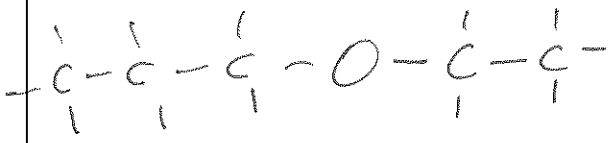
Organic Chem Problem Set #2

Answers

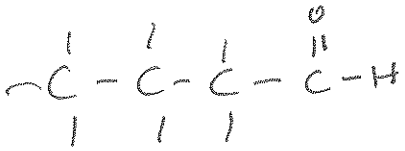
Name each molecule, or draw them if the name is provided.

H atoms don't have to be drawn.

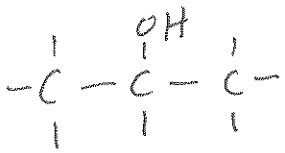
Draw ethyl propyl ether



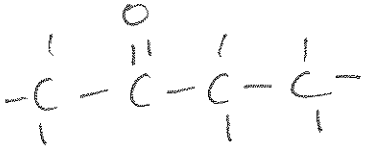
Draw butanal



Draw 2propanol

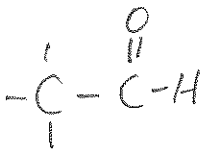


Draw 2butanone

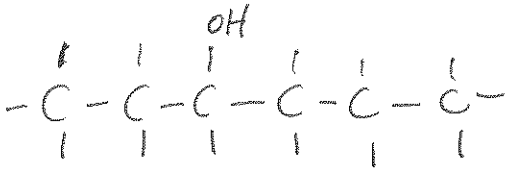


Draw diethyl ether

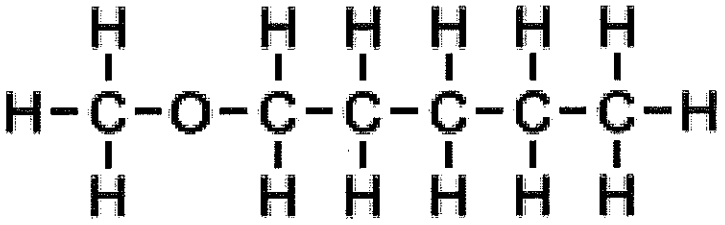
Draw ethanal



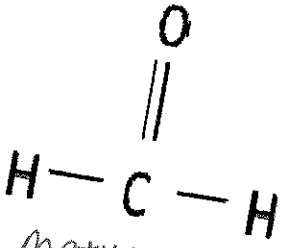
Draw 3hexanol



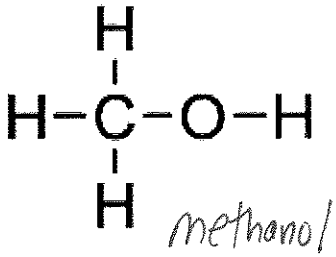
Circle the functional groups and name these 5



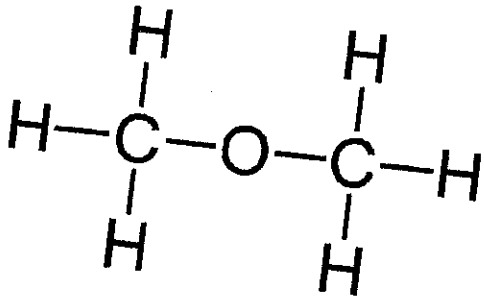
METHYL PENTYL ETHER



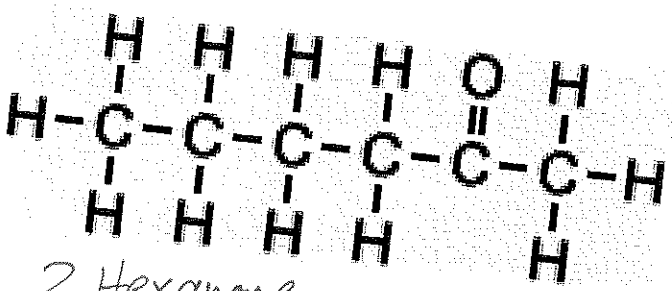
METHANAL



methanol

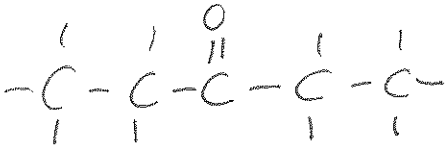


di Methyl ether



2 Hexanone

Draw 3pentanone



Organic Chem Problem Set #3

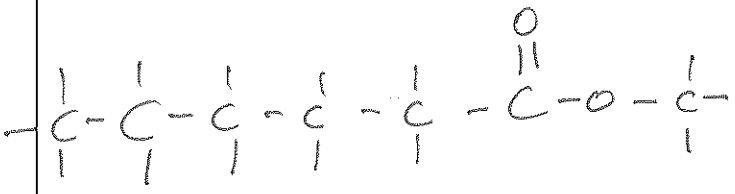
Answers

O-3

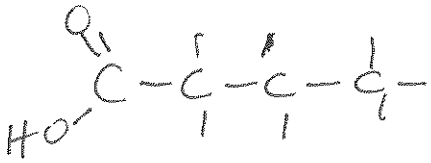
Name each molecule, or draw them if the name is provided.

H atoms don't have to be drawn.

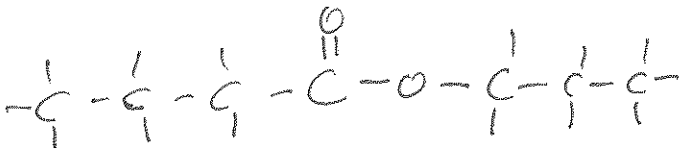
Draw methyl hexanoate (banana oil)



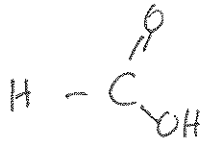
Draw ethanoic acid (but put the functional group on the left side!)



Draw propyl butanoate

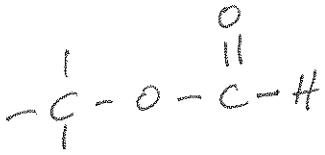


Draw methanoic acid



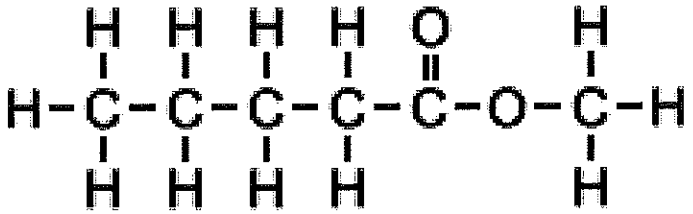
Draw ethyl ethanoate

Draw methyl methanoate (put the "oxygen tail to the left!)

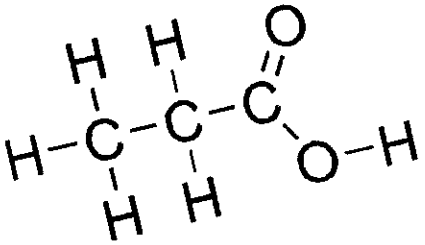


Draw butyl ethyl ether

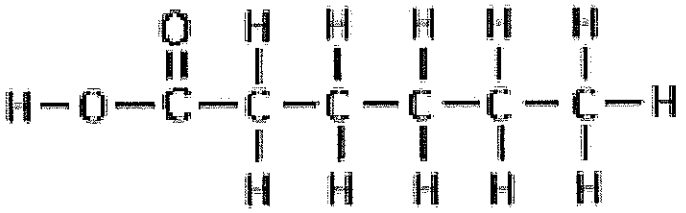
Circle the functional groups and name these



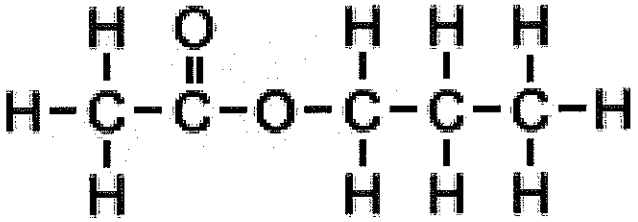
Methy Pentanoate



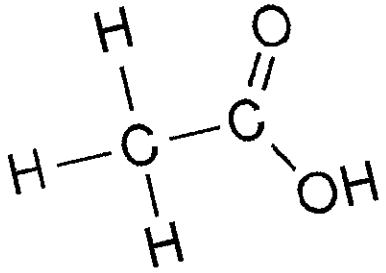
propanoic Acid



HEXANOIC ACID



PROPLY Ethanoate



ethanoic Acid

Organic Chem Problem Set #4

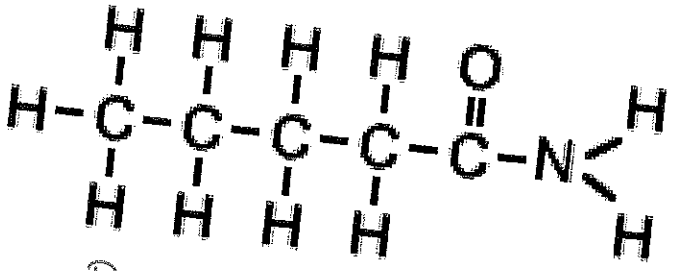
Answers

O-4

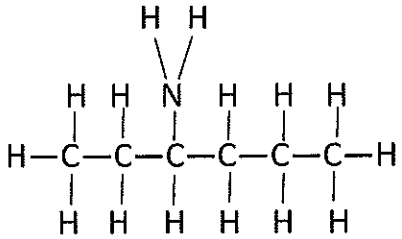
Name each molecule, or draw them if the name is provided.

H atoms don't have to be drawn.

Circle the functional groups and name these

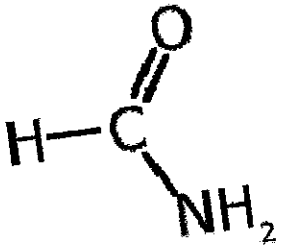


PENTANAMIDE

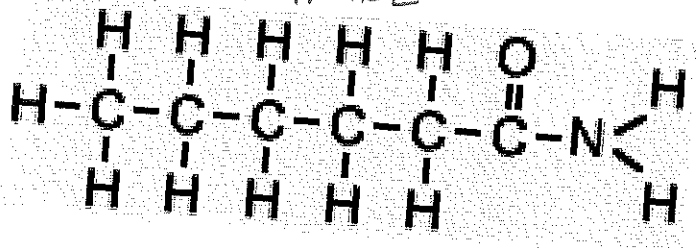


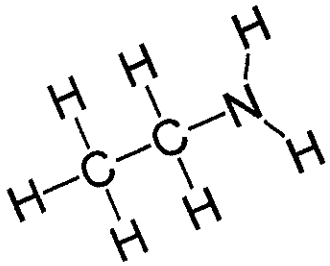
3 Hexanamine

METHANAMIDE



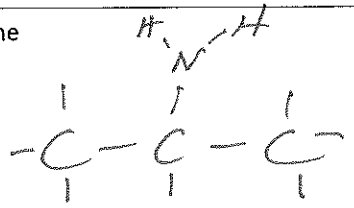
HEXANAMIDE





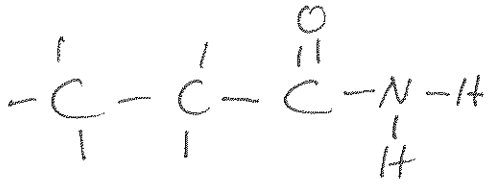
Ethanamine

Draw 2 propanamine



Draw 1 propanamine

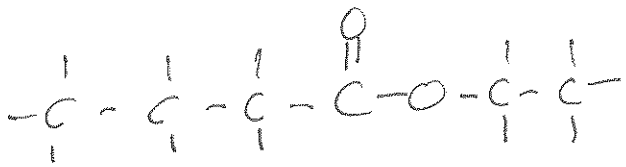
Draw propanamide



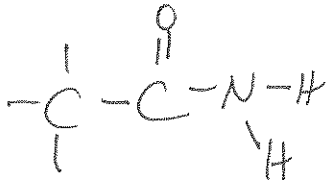
Draw 3 pentanone

Draw ethanamine

Draw ethyl butanoate



Draw ethanamide



Organic Chem Problem Set #5

Answers

O-5

Draw out these reactions.

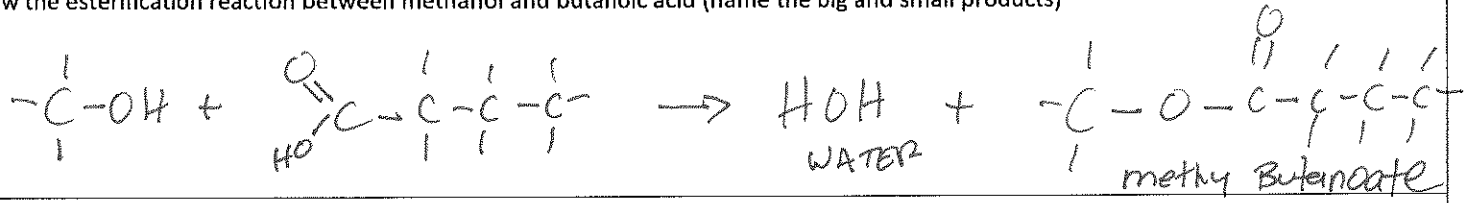
H atoms don't have to be drawn.

Show the structural diagrams of the molecules propyne + bromine in an addition reaction, and name the big product

Show the structural diagrams of the molecules propane + chlorine in an substitution reaction (name the big product)

I chose 1-chloro propane

Show the esterification reaction between methanol and butanoic acid (name the big and small products)



Show the substitution reaction between butane and bromine (name the big product)

I chose 2 Bromo butane

Show the esterification reaction between propanol and methanoic acid (name the big products properly)

propyl methanoate

Make up an esterification reaction, name both reactants and both products properly (not one from above)

Show the substitution reaction between IODINE and ethane (name the bigger product)

Iodo-ethane

Show the addition reaction between 2butyne and fluorine (name the product)

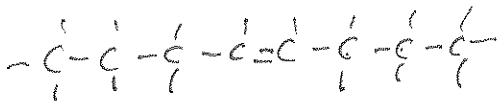
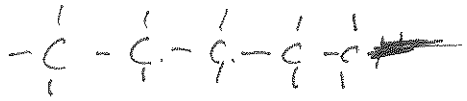
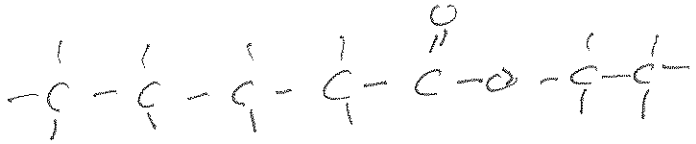
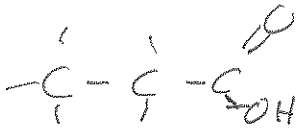
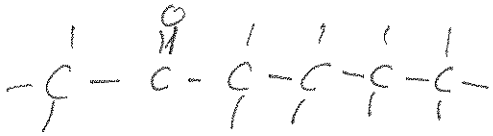
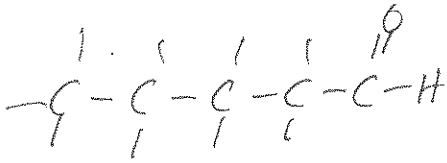
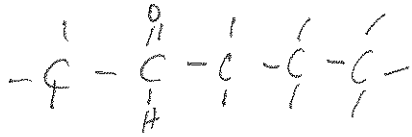
2,3 di Fluoro Butane

Organic Chem Problem Set #6

Answers

O-6

Change these condensed structural formulas into diagrams, or change these diagrams into condensed structural formulas. H atoms don't have to be drawn.

	DRAW all MOLECULES here
Name $CH_3CH_2CH_2CHCHCH_2CH_2CH_3$ 4 octene	
Name $CH_3(CH_2)_3CH_3$ pentane	
Name $CH_3CH_2CH_2CH_2COOCH_2CH_3$ ethyl pentanoate	
Name CH_3CH_2COOH propanoic acid	
Name $CH_3CH_2CH_2CH_2CH_2CH_2NH_2$ 1 hexanamine	
Name $CH_3COCH_2CH_2CH_2CH_3$ 2 hexanone	
Name $CH_3OCH_2CH_3$ ethyl methyl ether	
Name $CH_3CH_2CH_2CH_3CHO$ pentanal	
Name $CH_3CHOCH_2CH_2CH_3$	
Name $CH_3CH_2CHN_2CH_2CH_2CH_3$ 3 hexanamine