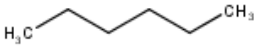
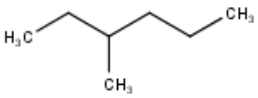
Alkanes Answers:

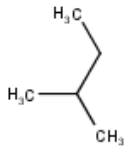
ethane;



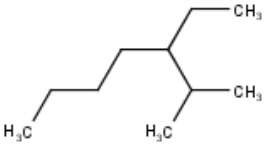
hexane;



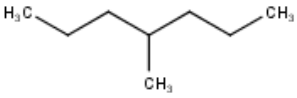
3-methylhexane;



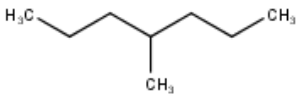
; 2-methylbutane;



3-ethyl-2-methylheptane;

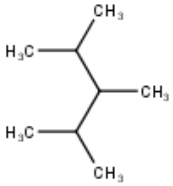


4-methylheptane

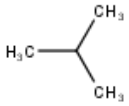


4-methylheptane

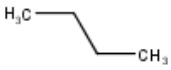
propane



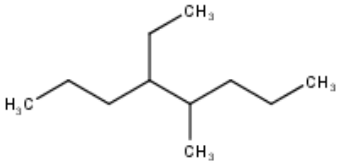
2,3,4-trimethylpentane



2-methylpropane;

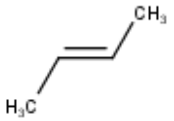


butane;

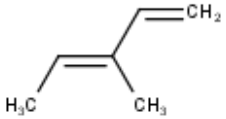


4-ethyl-5-methyloctane;

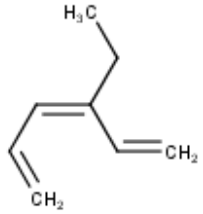
Alkenes and Alkynes Answers:



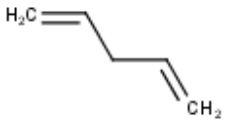
-but-2-ene;



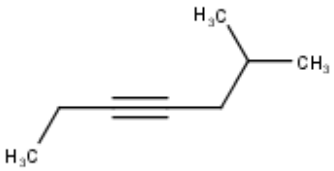
-3-methylpenta-1,3-diene;



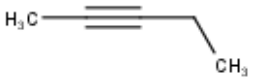
3-ethylhexa-1,3,5-triene



penta-1,4-diene

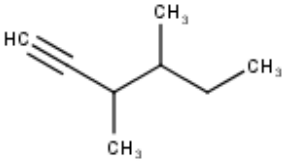


6-methylhept-3-yne

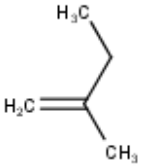


pent-2-yne;

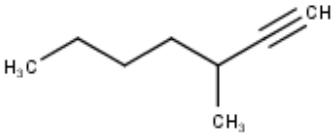
propene



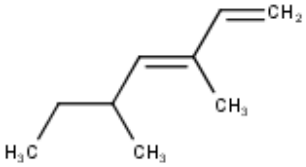
3,4-dimethylhex-1-yne



2-methylbut-1-ene



3-methylhept-1-yne



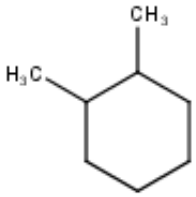
3,5-dimethylhepta-1,3-diene;

Cyclic Hydrocarbons Answers:

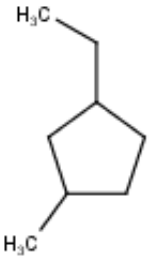
cyclopentane;

cyclopentene;

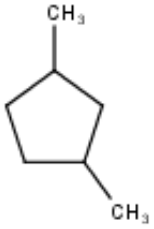
methylcyclobutar



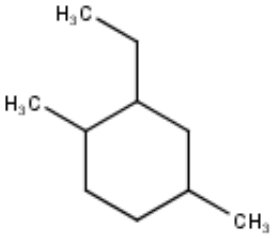
1,2-dimethylcyclohexane;



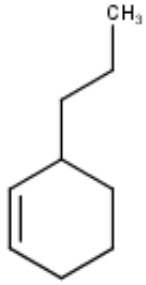
1-ethyl-3-methylcyclopentane



1,3-dimethylcyclopentane



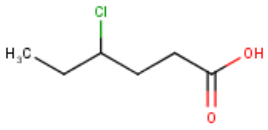
2-ethyl-1,4-dimethylcyclohexane



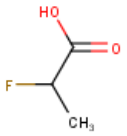
3-propylcyclohex-1-ene;

cyclopropane;

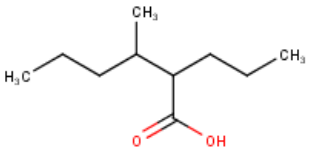
Carboxylic Acids Answers:



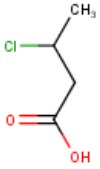
4-chlorohexanoic acid;



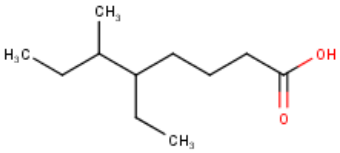
2-fluoropropanoic acid;



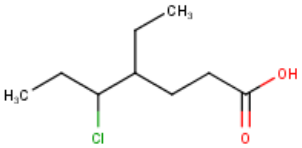
3-methyl-2-propylhexanoic acid



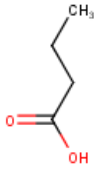
3-chlorobutanoic acid;



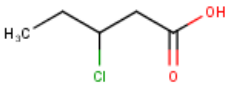
5-ethyl-6-methyloctanoic acid;



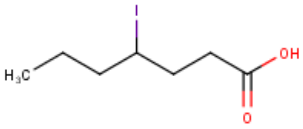
5-chloro-4-ethylheptanoic acid;



butanoic acid



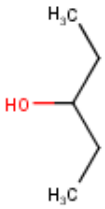
3-chloropentanoic acid;



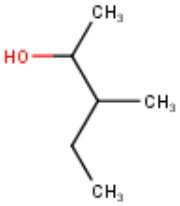
4-iodoheptanoic acid

Alcohols:

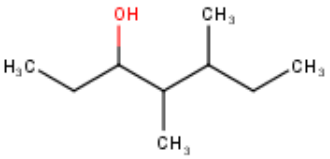
ethanol;



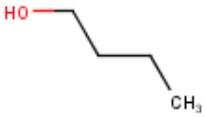
pentan-3-ol



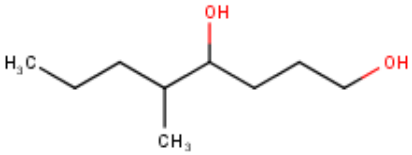
3-methylpentan-2-ol;



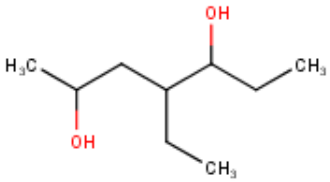
4,5-dimethylheptan-3-ol;



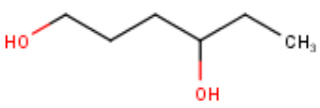
butan-1-ol;



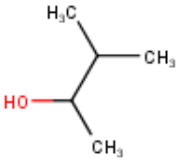
5-methyloctane-1,4-diol;



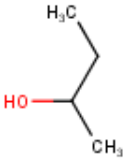
4-ethylheptane-2,5-diol;



hexane-1,4-diol;

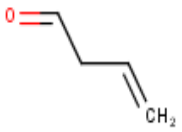


3-methylbutan-2-ol;

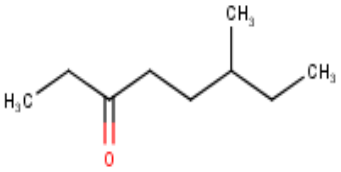


butan-2-ol;

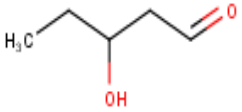
Aldehydes and Ketones:



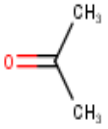
but-3-enal



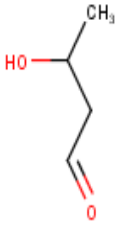
; 6-methyloctan-3-one



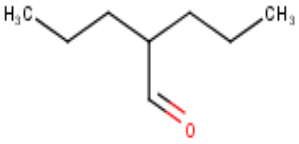
3-hydroxypentanal



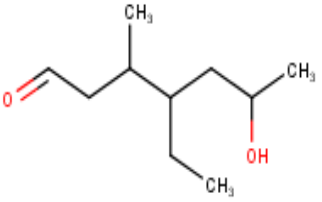
propan-2



3-hydroxybutanal;

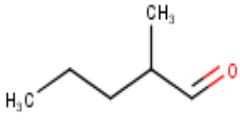


2-propylpentanal

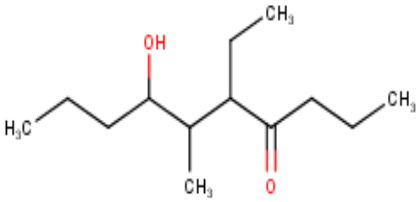


; 4-ethyl-6-hydroxy-3-methylheptanal

ethanal

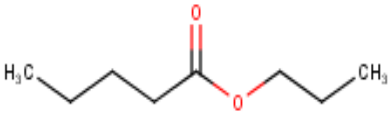


2-methylpentanal;

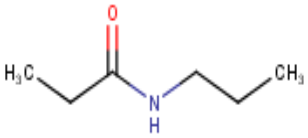


5-ethyl-7-hydroxy-6-methyldecan-4-one

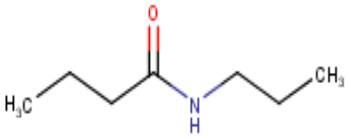
Amides and Esters



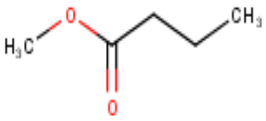
propylpenanoate



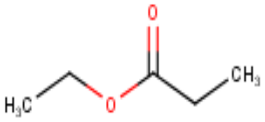
N-propylpropanamide;



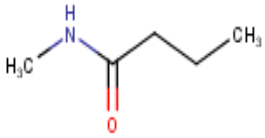
N-propylbutanamide



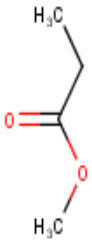
methyl butanoate;



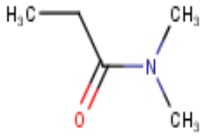
ethyl propanoate



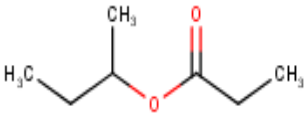
N-methylbutanamide



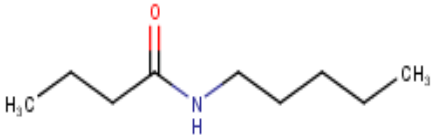
methyl propanoate;



N,N-dimethylpropanamide;



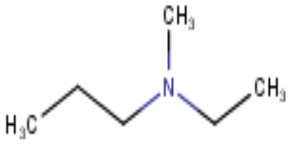
butan-2-yl propanoate;



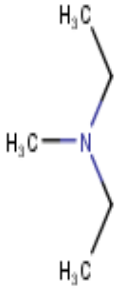
N-pentylbutanamide;

Amines:

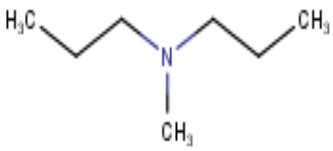
methanamine;



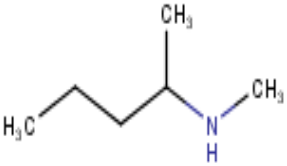
ethyl(methyl)propylamine;



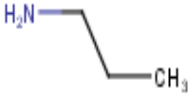
diethyl(methyl)amine



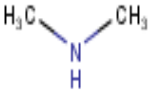
methyldipropylamine



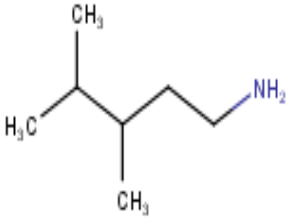
methyl(pentan-2-yl)amine



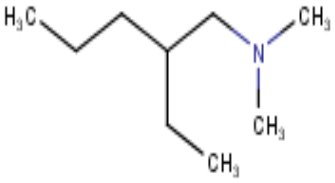
propan-1-amine



dimethylamine

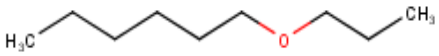


3,4-dimethylpentan-1-amine

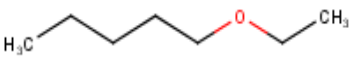


(2-ethylpentyl)dimethylamine

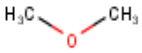
Haloalkanes and ethers:



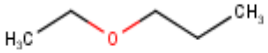
1-propoxyhexane;



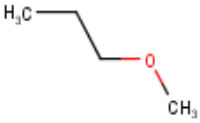
1-ethoxypentane;



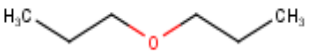
methoxymethane



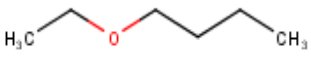
1-ethoxypropane;



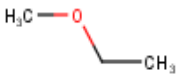
1-methoxypropane;



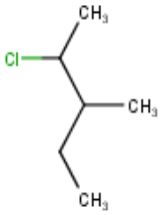
1-propoxypropane;



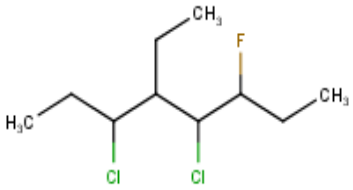
1-ethoxybutane;



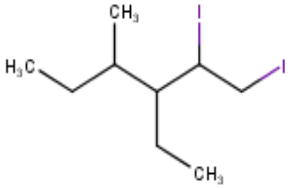
methoxyethane;



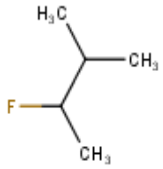
2-chloro-3-methylpentane;



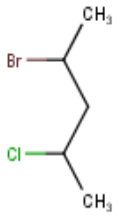
3,5-dichloro-4-ethyl-6-fluorooctane



3-ethyl-1,2-diiodo-4-methylhexane

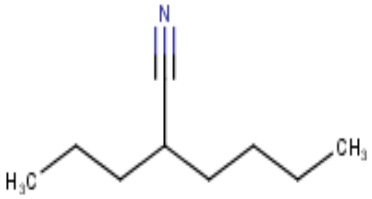


2-fluoro-3-methylbutane

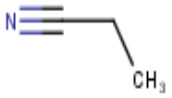


2-bromo-4-chloropentane;

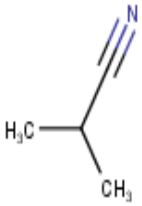
Nitriles:



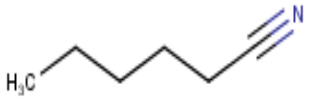
2-propylhexanenitrile



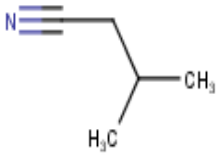
propanenitrile



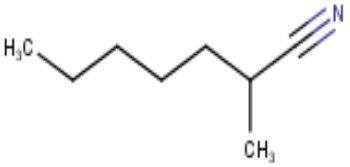
; 2-methylpropanenitrile;



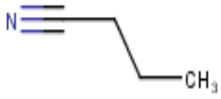
hexanenitrile;



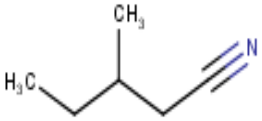
; 3-methylbutanenitrile;



2-methylheptanenitrile



butanenitrile;



3-methylpentanenitrile;