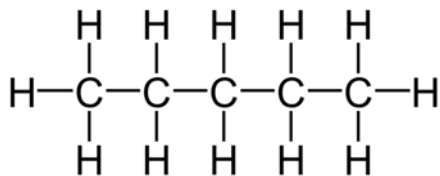


Organic Chem Review for Regents

Compound Name	Name of the HOMOLOGOUS SERIES it belongs to	Draw Structural Formula	Is this a Saturated or Unsaturated Hydrocarbon?	Molecular Formula
1-butyne	ALKYNES	$\begin{array}{cccc} & & \text{H} & \text{H} \\ & & & \\ \text{H} & -\text{C} \equiv \text{C} & -\text{C} & -\text{C}-\text{H} \\ & & & \\ & & \text{H} & \text{H} \end{array}$	UNSAT.	C_4H_6
2-pentene	ALKENES	$\begin{array}{cccccc} & \text{H} & & \text{H} & \text{H} & \\ & & & & & \\ \text{H} & -\text{C} & -\text{C} = \text{C} & -\text{C} & -\text{C} & -\text{H} \\ & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & \end{array}$	UNSAT.	C_5H_{10}
propane	ALKANES	$\begin{array}{ccccc} & \text{H} & \text{H} & \text{H} & \\ & & & & \\ \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{H} \\ & & & & \\ & \text{H} & \text{H} & \text{H} & \end{array}$	SAT.	C_3H_6
methyl butane	BRANCHED ALKANES	$\begin{array}{ccccccc} & & \text{H} & & & & \\ & & & & & & \\ & \text{H} & -\text{C} & -\text{H} & & & \\ & & & & & & \\ \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{H} \\ & & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & & \end{array}$	SAT.	C_5H_{12}

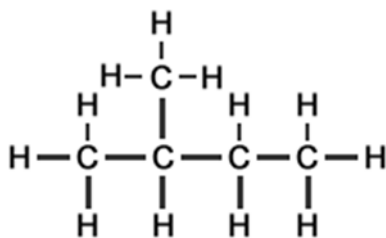
Draw and name an isomer for pentane

“normal” pentane (n-pentane)



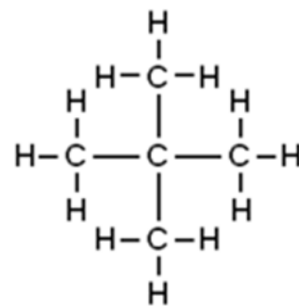
Do it again

Methyl butane (isopentane)

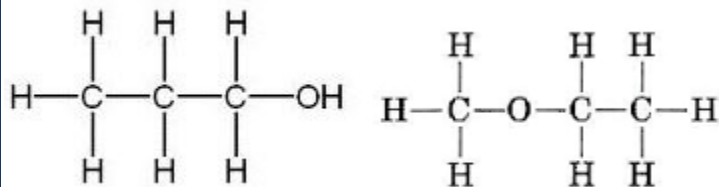


Do it a 3rd time

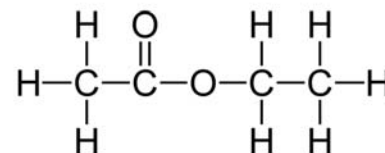
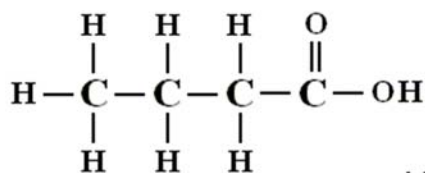
Dimethyl propane (neopentane)



Draw 1 propanol and draw and name an ETHER that is its ISOMER



Methyl ethyl ether



Draw Butanoic Acid, draw + name an ESTER ISOMER

Compound Name	Class or type of organic molecule	Draw the Functional Group	Structural formula	Condensed Structural Formula
ethyl propanoate	ESTER	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{O}- \end{array}$		$\text{CH}_3\text{CH}_2\text{COOCH}_2\text{CH}_3$
pentanal	ALDEHYDE	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{H} \end{array}$		$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CHO}$
2butanol	ALCOHOL	$-\text{OH}$		$\text{CH}_3\text{CH}_2\text{CHOHCH}_2\text{CH}_3$
1chloro-hexane	HALO-CARBON	$\text{R}-\text{X}$ where X is either: F, Cl, Br, or I		$\text{CH}_3(\text{CH}_2)_5\text{CH}_2\text{Cl}$
ethanamine	AMINE	$\text{R}-\text{NH}_2$		$\text{CH}_3\text{CH}_2\text{NH}_2$
propanoic acid	ORGANIC ACID	$\text{R}-\text{COOH}$		$\text{CH}_3\text{CH}_2\text{COOH}$
butanone	KETONE	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R} \end{array}$		$\text{CH}_3\text{CH}_2\text{COCH}_3$
propanamide	AMIDE	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{NH}_2 \end{array}$		$\text{CH}_3\text{CH}_2\text{CONH}_2$