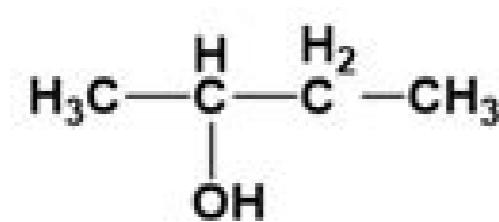
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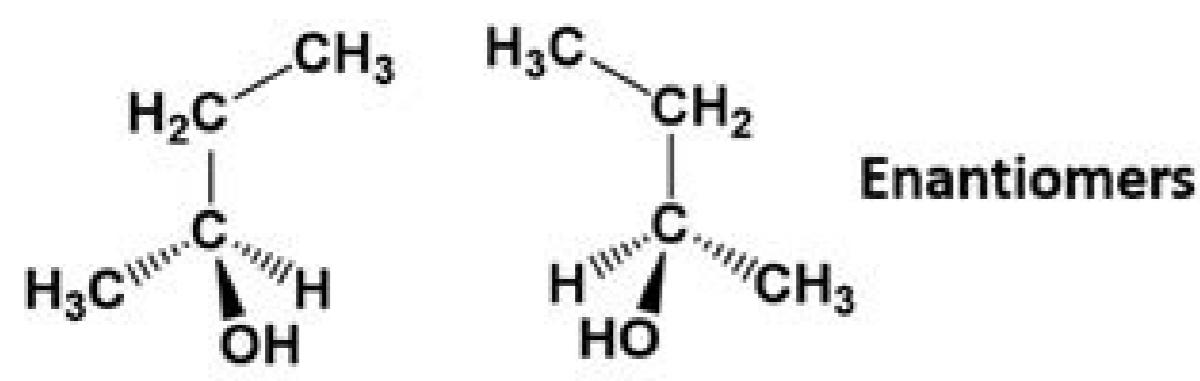
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**Example: 2-butanol**

The partially condensed structure for 2-butanol is:



To show the 3-D positioning of the bonds around the first carbon, the structure can be rewritten as:



As we will discuss in the next section, displaying the 3-D positioning of atoms within a molecule can be very important for defining the overall structure and function of a molecule.

While the above atoms look identical, they actually are not! They are mirror images of each other, however, if you tried to superimpose one molecule on top of the other molecule, you would find that you would not be able to do so. Molecules that are mirror images of each other, but are not superimposable are defined as a special type of isomer called an **enantiomer**.

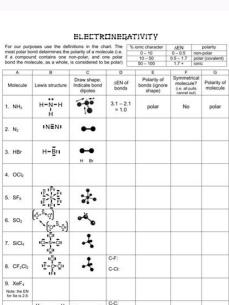
**ELECTRONEGATIVITY**

For our purposes use the definitions in the chart. The most polar bond determines the polarity of a molecule (i.e. if a compound contains one non-polar, and one polar bond the molecule, as a whole, is considered to be polar)

% ionic character	$\Delta\text{EN}$	polarity
0 – 10	0 – 0.5	non-polar
10 – 50	0.5 – 1.7	polar (covalent)
50 – 100	1.7 +	ionic

A	B	C	D	E	F	G
Molecule	Lewis structure	Draw shape. Indicate bond dipoles	$\Delta\text{EN}$ of bonds	Polarity of bonds (ignore shape)	Symmetrical molecule? (i.e. all partials cancel out)	Polarity of molecule
1. $\text{NH}_3$	$\text{H}-\ddot{\text{N}}-\text{H}$ H		$3.1 - 2.1 = 1.0$	polar	No	polar
2. $\text{N}_2$	$\text{IN}\equiv\text{NI}$					
3. $\text{HBr}$	$\text{H}-\ddot{\text{B}}\text{r}$					
4. $\text{OCl}_2$						
5. $\text{SF}_6$						
6. $\text{SO}_2$						
7. $\text{SiCl}_4$						
8. $\text{CF}_2\text{Cl}_2$			C-F: C-Cl:			
9. $\text{XeF}_4$ Note: the EN for Xe is 2.6						
10. $\text{C}_2\text{H}_4$			C-C: C-H:			

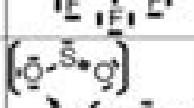
Q – which binary (two element) compound would have the greatest  $\Delta\text{EN}$ ?



## ELECTRONEGATIVITY

For our purposes use the definitions in the chart. The most polar bond determines the polarity of a molecule (i.e. if a compound contains one non-polar, and one polar bond the molecule, as a whole, is considered to be polar).

% ionic character	AEN	polarity
0 – 10	0 – 0.5	non-polar
10 – 50	0.5 – 1.7	polar (covalent)
50 – 100	> 2	ionic

A	B	C	D	E	F	G
Molecule	Lewis structure	Draw shape. Indicate bond dipoles	ΔEN of bonds	Polarity of bonds (ignore shape)	Symmetrical molecule? (i.e. all dipoles cancel out)	Polarity of molecule
1. NH <sub>3</sub>	H=N=H   H		3.1 - 2.1 = 1.0	polar	No	polar
2. N <sub>2</sub>						
3. HBr	H-Br					
4. OCl <sub>2</sub>						
5. SF <sub>6</sub>						
6. SO <sub>2</sub>						
7. SiCl <sub>4</sub>						
8. CF <sub>2</sub> Cl <sub>2</sub>			C-F: C-Cl:			
9. XeF <sub>4</sub>	Note: the EN for Xe is 2.6					
10. C <sub>2</sub> H <sub>4</sub>			C-C: C-H:			

Q – which binary (two element) compound would have the greatest AEN?

	2 lone pairs	3 lone pairs	4 lone pairs
1 Bent angular			
2 T-shaped			
3 Square planar			
4 Linear			

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