

1. How many bonds does the carbon atom form? Can carbon form double, triple, and quadruple bonds?
2. How many bonds do the following atoms form: oxygen, nitrogen, and hydrogen?
3. What atoms does carbon commonly form bonds with?
4. What is the difference between a molecular formula and a structural formula?
5. Draw both structural isomers for the chemical formula  $C_2H_6O$ . (Hint: There are only single bonds in these structures)
6. What is the name of the functional group that the following molecule contains? Circle the functional group. What smell do you predict this molecule to have?

