**Organic Chemistry**

1. Construct each of the compounds below, and then have Mr. Tomasino check each.

2. Classify each compound as a(n) Alkane, Alkene, Alkyne, Alcohol, Aldehyde/ Ketone, Carboxylic Acid, Amine, or Amino Acid.

3. Circle the Functional Group/ Bonds:

**Example:**

 **Propanoic Acid** Carboxylic Acid (Circled)

|  |  |  |
| --- | --- | --- |
| **Name** | **Structure** | **Classification** |
| Butane | http://www5a.wolframalpha.com/Calculate/MSP/MSP24821e0d16553bi774i900003h9i259d92dhh3b8?MSPStoreType=image/gif&s=28&w=251.&h=129.&cdf=Resizeable |  |
| Ethene(Ethylene) | http://www5a.wolframalpha.com/Calculate/MSP/MSP2491ead1f55a626h13200005g3bc5f197a0bgai?MSPStoreType=image/gif&s=35&w=153.&h=121.&cdf=Resizeable |  |
| Ethanol | http://www5a.wolframalpha.com/Calculate/MSP/MSP12571ia2536ib4bb677b000030e4h69b4b9ah5e3?MSPStoreType=image/gif&s=6&w=204.&h=129.&cdf=Resizeable |  |
| Formaldehyde(I make labs smell terrible) | http://www5a.wolframalpha.com/Calculate/MSP/MSP16491f7b66fcd61c547i000063c9373b143hgb31?MSPStoreType=image/gif&s=33&w=134.&h=120.&cdf=Resizeable |  |
| Acetone | http://www5a.wolframalpha.com/Calculate/MSP/MSP1971aih4a271feh737100003c6ad90c3254h8a6?MSPStoreType=image/gif&s=14&w=188.&h=150.&cdf=Resizeable |  |
| Acetic Acid | http://www5a.wolframalpha.com/Calculate/MSP/MSP14571c313h6e0db3e9a10000104hbgch935i10i7?MSPStoreType=image/gif&s=36&w=191.&h=152.&cdf=Resizeable |  |
| Methylamine | http://www5a.wolframalpha.com/Calculate/MSP/MSP30541gd81f6age505381000068d2ad27h1895282?MSPStoreType=image/gif&s=23&w=147.&h=137.&cdf=Resizeable |  |
| Glycine | http://www5a.wolframalpha.com/Calculate/MSP/MSP2691fchgca4gg4ci2a40000398e8e0ifb9b3d53?MSPStoreType=image/gif&s=24&w=185.&h=171.&cdf=Resizeable |  |
| Alanine | http://www5a.wolframalpha.com/Calculate/MSP/MSP4391eeg04hfbebdhe7f00000e99chb603bdddg6?MSPStoreType=image/gif&s=37&w=219.&h=196.&cdf=Resizeable |  |
| Glycerol | http://www5a.wolframalpha.com/Calculate/MSP/MSP23111ecdi2a0h89ca28f00003421d8g0i1277i0h?MSPStoreType=image/gif&s=17&w=267.&h=151.&cdf=Resizeable |  |
| Cheat Sheet | -OH Alcohol- NH2 Amine- http://www.daviddarling.info/images2/aldehyde_and_ketone_compare.jpg- Carboxylic Acidhttp://www.chemistry-drills.com/icons/3.jpg | * Black = Carbon
* White = Hydrogen
* Blue = Nitrogen
* Red = Oxygen
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