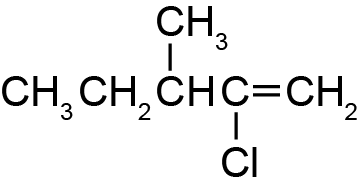
**ANSWERS: Structural formula (aka displayed, expanded structural formula)**

|  |  |  |
| --- | --- | --- |
| ethanol | methylpropanoic acid | 3-methylbutanoic acid |
| 2,2-difluorobutane | iodoethane | butan-2-amine |
| 2-hydroxypropanoic acid | propan-2-amine | 2,3-dimethylbutane |
| 3-methylpentanoic acid    carboxylic acid | propan-1-amine    amine | 2-chlorobutanoic acid    **carboxylic acid** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| pentanoic acid    **carboxylic acid** | **but-1-yne**  http://www.chemeddl.org/resources/models360/files/7846/but-1-yne-lewis2.png  alkyne | 2,2-dichloropentan-1-ol  Cl  http://upload.wikimedia.org/wikipedia/commons/thumb/a/a0/Pentan-1-ol.png/1024px-Pentan-1-ol.png  Cl  alcohol | | |
| **ethanoic acid**    **carboxylic acid** | **2-aminopentane**    **amine** | 3-methylbut-1-ene    **alkene** | | |
| **1-aminopropane**  CH3–CH2–CH2–NH2  amine | **butan-1,3-diol**  **90309assQ1a1**  **alcohol** | **3-methylbut-1-yne**  **90309q1a3ass**  **alkyne** | | |
| **methanol**  CH3–OH  alcohol | **2-chloropent-2-ene**  **90309assQ1a2**  **alkene** | | **2-chlorobutan-2-ol**  **90309q1a4ass**  **alcohol** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3-chlorobutan-1-ol**    **alcohol** | | | C4H8O2 butanoic acid    carboxylic acid | | 2-chloro-3-methylbutanoic acid    **carboxylic acid** |
| A branched-chain secondary alcohol C5H11OH 3-methylbutan-2-ol    alcohol | | | A branched-chain tertiary alcohol  C5H11OH 2-methylbutan-2-ol    alcohol | | 2-amino-3-methylbutane  2009.jpg  amine |
| 4-chlorobutanoic acid    carboxylic acid | | pentan-2-ol  90309q1a  alcohol | | 4-methylpent-2-yne  4-methyl.jpg  alkyne | |
| 3-aminopentane    amine | | 2-chloropropan-1-ol    alcohol | | 2-amino-2,3-dimethylbutane    amine | |
| pent–2–ene    alkene | 3-chloropropan-1-ol    alcohol | | | 2–bromo–3–methylbutanoic acid    carboxylic acid | |
| 4–methylpent–2–ene    alkene | butanoic acid  http://upload.wikimedia.org/wikipedia/commons/c/c8/Butyric_acid_flat_structure.png  carboxylic acid | | | 2,4-dichlorobut1ene    alkene | |

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1. 

Numbering of the chain starts from the end that carries the main functional group, the double bond. Once counted from this end, the number of the double bond and chlorine change.

2-chloro-3-methylpent-1-ene

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