**Angeles  City Science High School**

**Science 9**

**Name:** Paul Gerald D. Pare **Section:** 9 - Adenine

## Activity No. 1

Direction: Complete the table about the uses of the compounds. Using a check mark, indicate the uses of the compounds. You may have more than one check mark per sample depending on its use/s.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Organic Compounds** | | | | | | |
| **Uses** | Acetone | Acetic Acid | Ethanol | Gasoline | Kerosene | LPG |
| Antiseptic |  | / | / |  | / |  |
| Beverage |  |  | / | / |  |  |
| Cleaner |  | / | / | / |  |  |
| Food |  | / |  |  | / |  |
| Fuel | / |  | / |  | / | / |

## Activity No. 2

Direction: Provide the missing answers on each table below.

## ALKANES

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Expanded Structural Formula** | **Condensed Structural Formula** |
| **Methane** | CH4 | H  |  H – C – H  | H | CH4 |
| **Butane** | C4H10 | H H H H  | | | |  H – C – C – C – C – H  | | | | H H H H | CH3-CH2-CH2-CH3 |
| **Octane** | C8H18 | H H H H H H H H  | | | | | | | |  H – C – C – C – C – C - C - C - C - H  | | | | | | | |  H H H H H H H | CH3-CH2-CH2-CH2-CH2-CH2-CH2-CH3 |
| **ALKENES** | | | |
| **Name** | **Formula** | **Expanded Structural Formula** | **Condensed Structural Formula** |
| **Propene** | C3H6 | H H H  | | |  H – C = C – C – H  | H | CH2 = CH – CH3 |
| **Pentene** | C5H10 | H H H H H  | | | | |  H – C = C – C – C - C - H  | | | | |  H H H H H | CH2 = CH – CH2 – CH2 – CH3 |
| **Heptene** | C7H14 | H H H H H H H  | | | | | | |  H – C = C – C – C – C – C – C –  H | | | | |  H H H H H | CH2 = CH - CH2 - CH2 - CH2 - CH2 - CH3 |

**ALKYNES**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Expanded Structural Formula** | **Condensed Structural Formula** |
| **Ethyne** | C2H2 | H – C ≡ C – H | CH ≡ CH |
| **Hexyne** | C6C10 | H H H H  | | | |  H – C ≡ C – C – C – C – C – H  | | | | H H H H | CH ≡C - CH2 - CH2 - CH2 - CH3 |
| **Heptyne** | C7H12 | H H H H H  | | | | |  H – C ≡ C – C – C – C – C – C - H  | | | | |  H H H H H | CH ≡ C - CH2 - CH2 - CH2 -CH2 - CH3 |

ACTIVITY NO. 3

Why do you think these kinds of organic compounds are very important?

These are important because we can identify their properties and group compounds and molecules that share same traits. Classification is important because without it, we wouldn’t know new discoveries. This is also useful because we will know if a substance is toxic if we digest or consume it.