

Unit 3: ORGANIC CHEMISTRY – OBJECTIVES

1. Name organic compounds according to the IUPAC naming system.
2. Given the name of an organic compound draw a structural formula.
3. Given the reactants write structural formula for the entire chemical reaction.
4. Given the name of the organic molecule and a model kit construct and draw the structural diagram for a compound and its isomers.
5. List some of the general properties of alkanes, alkenes, alkynes, hydrocarbon derivatives and aromatic compounds.
6. Given the percentage of carbon dioxide and water in a sample and the mass and conditions of a vapourized sample calculate empirical and molecular formulas for the compound.
7. Given the mass of reactants and experimental data calculate the percentage yield.