International Journal of Education and Science Research Review
E-ISSN 2348-6457
July-August- 2016, Volume-3, Issue-4 P-ISSN 2349-1817
www.ijesrr.org Email- editor@ijesrr.org

Importance of Chemistry in our Daily Life

Dr. Abha Mathur
Govt. Girls College, Dausa, Raj

Everything is made of chemicals. Many of the changes we observe in the world around we see that caused by chemical reactions. Chemistry is very important because it helps us to know the composition, structure& changes of matter. All the matters are made up of chemistry. In our every day like various chemical are being used in various from, some of those are being used as food, some of those used clanging etc.

1. Element in the Human Body

Body is made up of chemical compounds, which are combinations of elements. Probably know body is mostly water, which is hydrogen and oxygen, building block of all cells and tissues is carbon (c).

2. Health Care and Beauty:

The diagnostic tests carried out in laboratories, the prognostic estimations, medical prescriptions, pills, the vaccines, the antibiotics play very vital role in health monitoring, control of diseases and in alleviating the sufferings of the humanity. From simple sterilization surgical instruments with antiseptic solution to Chemotherapy and Genome sequencing are all nothing but applications of Chemistry. Aging- a chemical change can only be checked chemically. Most beauty products are produced through chemical synthesis to clean, nurture and protect skins. However their certain ingredients are hazardous to our health in the long run for eg Acetone $\begin{matrix} CH_3 \\ CH_3 \end{matrix} > C = 0$ CH_3COCH_3 is used as nail polish removers.

3. Industries and Transport:

From cloth mills, lather factories, petro-chemical industries and refineries to metal industries- all use numerous fuels for power generation and chemical products for processing their product and improve the equality and simultaneously produce pollution. Now-a-days chemical effluent treatment plants use chemicals to control or neutralist he hazardous impact of pollutants produced by the industries for eg. Polymers and petrol.

4. Food and Agriculture:

The famous green revolution to increase agricultural produce so as to ensure food security was triggered by the advent of inorganic fertilizers. Since then fertilizers are extensively used by farmers to restore the fertility of soil in the fields. Pesticides are used to protect the crop during farming and preserve the grains from pests, rats and mice during storage. Genetically modified seeds which are used to enhance production and earn profits through export of food grains are agricultural applications of Bio-chemistry. Sodium biCarbonate ($NaHCO_3$) used as baking Nitrogenous compounds are used as fertilizers.

5. Cooking :

Chemistry explains how food changes as we cook it, how it rots, how to preserve food, how our body uses the food eats, and how ingredients interact to make food.

6. Cleaning :

Part of the importance of chemistry is it explains how cleaning works. We use chemistry to help decide what cleaner is best for dishes, laundry, yourself, and your home. We use chemistry when use bleaches and disinfectants and even ordinary soap and water. How do they work? That's chemistry!

7. Medicine :

It is very need to understand basic chemistry so that we can understand how vitamins, supplements, and drugs can help or harm us. Part of the importance's of chemistry lies in developing and testing new medical treatments and medicines.

Chemistry is a big part of your everyday life. You find chemistry in daily life in the foods you eat, the air you breathe, cleaning chemicals, your emotions and literally every object you can see or touch. Here's a look at 10 examples of everyday chemistry.