

# **ORGANIC CHEMISTRY AS A MIRROR OF A PERSON'S LIFE**

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The importance of organic chemistry in human life is very difficult to overestimate, because these processes are everywhere around us: from basic cooking and finishing to biological processes in the body.

Organic chemistry is intimately connected with medicine. Important role in medicine play a synthetic polymeric materials. They help to produce many things: from disposable syringes to artificial heart valves, various prostheses internal organs - blood vessels, esophagus, bile ducts, heart valves, etc. Plastics correct some defects of the face (replace part of the nose, the ear, the eye-sockets).

In everyday life oxalic and citric acids are often used. Oxalic acid is a part of many household chemicals that are designed to remove rust from metal or enameled surfaces. The fact that the oxalate ions  $(C_2O_4)^{2-}$  - form a colorless, durable and highly soluble complexes with cations of iron. Citric acid is used as a flavouring substance in order to give the right flavor to drinks or confectionery products.

Organic chemistry also serves as a source of beauty. In the composition of cosmetic lotions, in addition to water, comprises up to 40% ethyl alcohol, and various inorganic and organic additives. Organic chemistry has already found application in the food industry. People often use essential oils, esters, some alcohols, aldehydes, ketones, hydrocarbons and various organic acids (acetic, citric, lactic, adipic, malic). In sausages monosodium salt of glutamic acid, to improve the taste is added.

Some scientists believe that the origin of life on our planet occurred in an environment consisting of carbon dioxide, ammonia, water and methane, and the first organisms get the energy for life, decomposing molecules without oxidation. Thus, the chemistry in human life is the cure for diseases, and weapons, and the economy, and cooking, and, of course, life itself.