

COMPOSITION OF THE PLANET AND MATERIALS NEEDED FOR LIFE

Composition of the planet's **chemical composition of the surface is decisive. Life can not develop in extreme environments**, such as excessively saline, alkaline or acidic (humans fail this to preserve food) as well as all the above conditions, if the surface of the earth, besides water, contains some element excessively, that could make life unviable in its creation and development (such as corrosive chemical processes with sulfuric acid or other acids, etc).

It is also possible that initially the ocean had any excess compound, but by some natural process of feedback, it is filtered out and leveling your PH to be neutral.

For the formation of a planet like Earth would also be needed iron, silicon and magnesium, plus sulfur, calcium, etc. Therefore the atmosphere and the surface must meet certain conditions for life to lead, **it is necessary that the surface of the ground is rocky** (which occurs frequently); a gaseous planet usually extreme environments so a priori discarded; however although perhaps certain conditions are not suitable for the survival of complex beings like us, which could not even get to develop multicellular beings,

there are circumstances in which bacteria and unicellular organisms find their breeding ground despite inhospitable atmosphere of the planet in question; so that scientists do not rule out life until thoroughly analyzed microscopically any indication.

Materials needed for life

are fairly common, but are not expendable. **I speak of compounds necessary for the "creation" of life as we know it** ; on earth extant life is based on 26 elements, of which life is mainly six: **hydrogen, oxygen, nitrogen, sulfur and phosphorus** ., and the other only in small quantities **it is quite possible that the first forms life requiring only carbon, oxygen, nitrogen and hydrogen** , and that with the evolution of living beings have assimilated many as improving their biochemical functioning, lengthening their existence probabilities. The astrobiologists, moreover, **takes into account the Life does not have to be based on carbon**; chance can create beings composed of similar materials in a different solvent that does not have to be water, but the properties of this ideal, randomness in physics and chemistry of the universe can create totally different but susceptible molecules and form elements living beings.

Source: <http://crecimiento-sostenible.blogspot.in/2015/01/can-there-be-life-on-other-planets.html>