

Keywords:

Hydrophilic - Molecule that can interact with or dissolve in water

Hydrophobic - Cannot interact with water and repels it

Polar covalent bond - When the electrons in a covalent bond are not shared equally. The resulting separation of charge gives one end of the bond a slightly negative charge and the other a slightly positive charge

Hydrogen bond - This is a type of weak intermolecular force. It is formed between a hydrogen atom that's covalently bonded to an oxygen/nitrogen atom in one molecule and an oxygen/nitrogen atom in another molecule

Catabolic reaction - Large molecules are broken down into smaller ones

Anabolic reaction - Build complex molecules from simple ones

Monomer - A molecule that can be bonded to other identical molecules to form a polymer

Polymer - Any of a class of natural or synthetic substances composed of very large molecules, which are multiples of similar chemical units called monomers

Keywords: (cont)

Disaccharide - The sugar formed when two monosaccharides are joined by glycosidic bonds

Elements found in the main biological molecules

Biological molecule	Carbon	Hydrogen	Oxygen	Nitrogen	Phosphorus	Sulphur
Carbohydrates	✓	✓	✓	x	x	x
Proteins	✓	✓	✓	✓	x	(✓)
Lipids	✓	✓	✓	x	(✓)	x
Nucleic acids	✓	✓	✓	✓	✓	x
Water	x	✓	✓	x	x	x



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