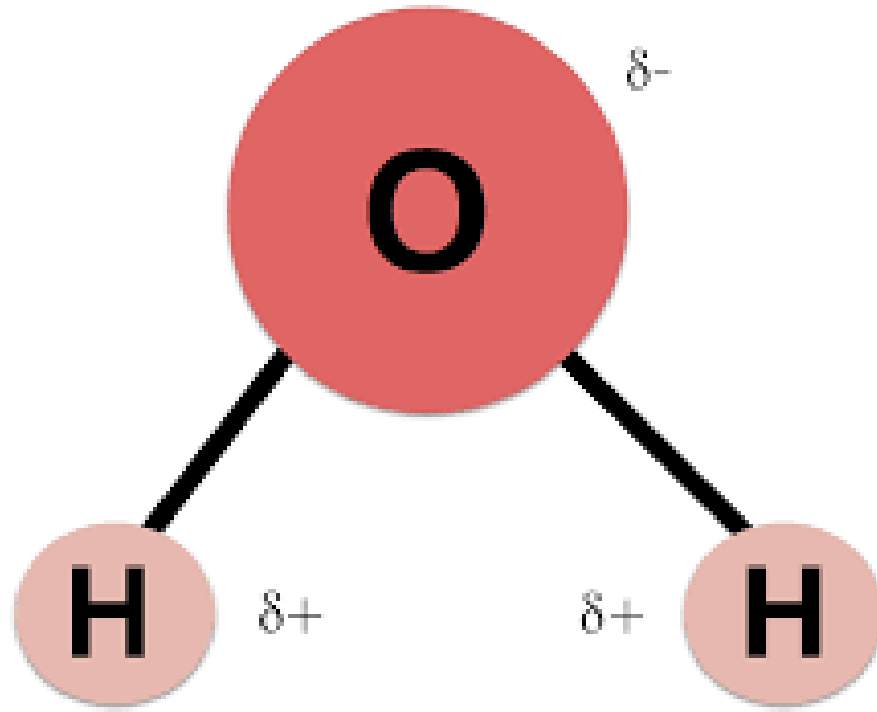


WATER

INTRODUCTION

- ❑ Water is the most important chemical for life.
- ❑ One molecule of water or dihydrogen monoxide contains two hydrogens and one oxygen atom.
- ❑ There is intermolecular hydrogen bonding bonding in water molecules.
- ❑ It is polar in nature and a good solvent for many reagents.

Structure of Water molecule



Sources of water

- Surface water
- Rock catchment areas and rockholes
- Excavated dams
- Rainwater Tanks
- Bores and wells

Soft water and Hard water

Soft water:

- The soft water contains less mineral and chemicals etc. than hard water.
- Soft water can form lather easily with soap. After softening of hard water the water still contains Na^+ and various anions.

Hard water :

- Hard water is the water, which does not form lather with soap solution.
- It has high mineral content (in comparison to soft water).