

THE WATER MOLECULE

structural formula

ball-and-stick model

space-filling model

Water molecules are covalent. Electrons are shared.

Water molecules are polar.

Hydrogen ions are protons, H^+ .
Hydroxide ions are OH^- .
Hydronium ions are H_3O^+ .

Out of 55,000,000 (55 million) water molecules, you will find only one ion.
(There are about 470,000,000,000,000,000,000 water molecules in one drop of water.)