

Answer on the question #70204, Chemistry / General Chemistry

Question:

What is h2o?

Answer:

H₂O is water, polar inorganic compound that consists of two atoms of hydrogen and one atom of oxygen.

Each molecule of water can form up to four hydrogen bonds, due to which water is liquid at ambient temperature. Being largely different in electronegativity, hydrogen and oxygen have partial charges high enough resulting a molecule with high dipolar moment (fig. 1).

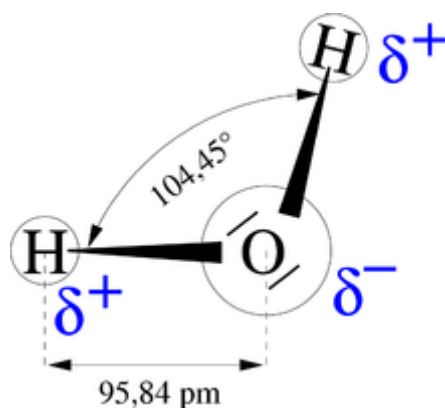


Figure 1. Water molecule geometry and symbolic representation of partial charges on the atoms of oxygen and hydrogen.

Due to its particular properties, water serves as a good insulator and a perfect solvent of polar compounds, playing peculiar role in the functioning of human body.