

Download Modeling The Hydrogen Bond

In water, each hydrogen nucleus is covalently bound to the central oxygen atom by a pair of electrons that are shared between them. In H_2O , only two of the six outer-shell electrons of oxygen are used for this purpose, leaving four electrons which are organized into two non-bonding pairs. Hydrogen is a chemical element with symbol H and atomic number 1. With a standard atomic weight of 1.008, hydrogen is the lightest element in the periodic table. The only chemical elements that form stable homonuclear diatomic molecules at standard temperature and pressure (STP) (or typical laboratory conditions of 1 bar and 25 °C) are the gases hydrogen (H_2), nitrogen (N_2), oxygen (O_2), fluorine (F_2), and chlorine (Cl_2). Platforms Windows, Mac, and Linux Key Features Molecule Visualization, Fully Interactive 3D Slides in PowerPoint and Web, Publication Quality Images, Display Ligand Binding Pocket Surfaces, Hydrogen Bond Display, Measure Distances and Angles More...