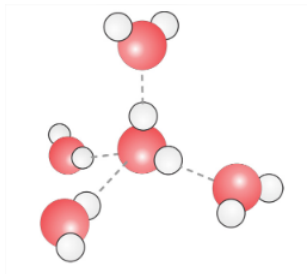


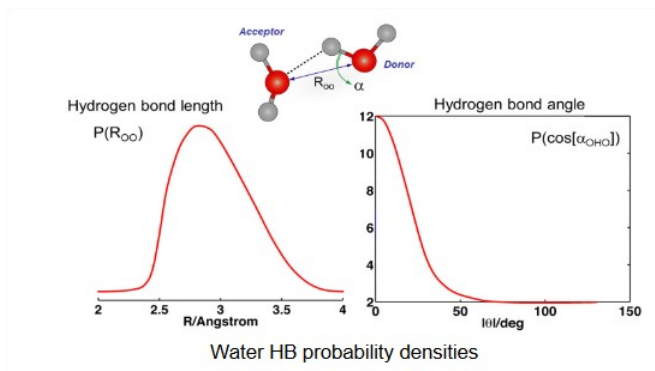
3.1: Water Structure

Water's Physical Properties

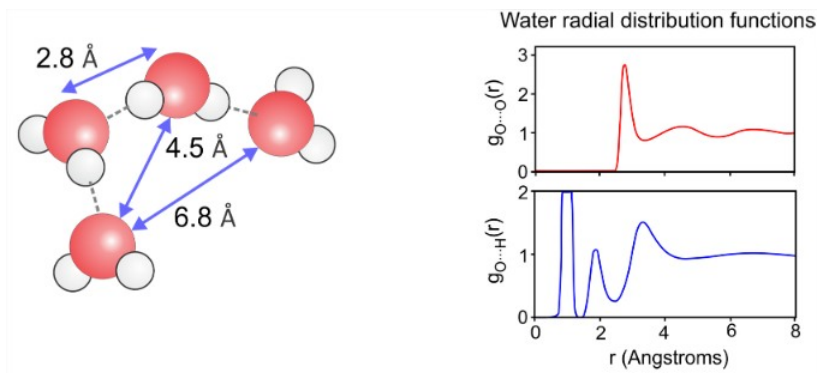
Water is a structured liquid. Its unique physical properties stem from its hydrogen bond network.



- On average, each molecule can donate two hydrogen bonds and accept two hydrogen bonds.
- Strong hydrogen bond (HB) interactions give preferential directionality along tetrahedral orientation.
- Large variation in HB distances and angles.



- Structural correlations last about 1–2 solvent shells, or <1 nm.



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