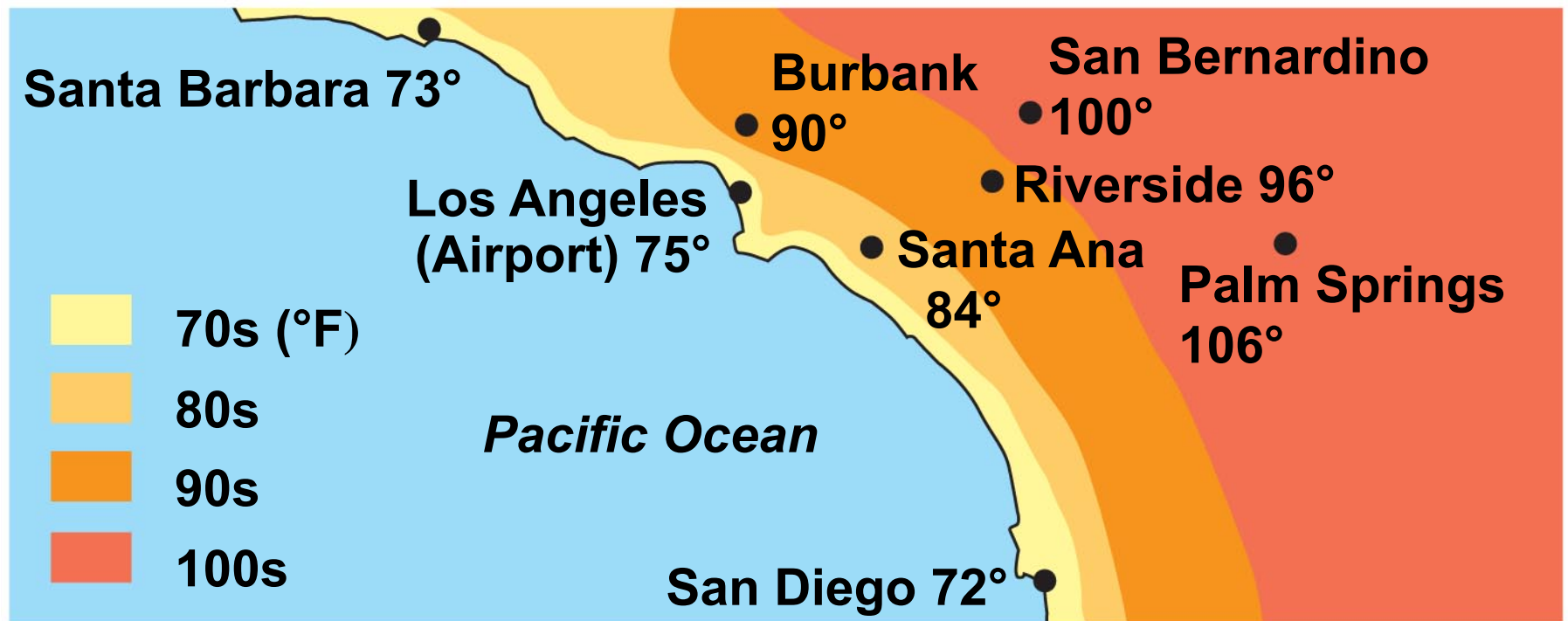


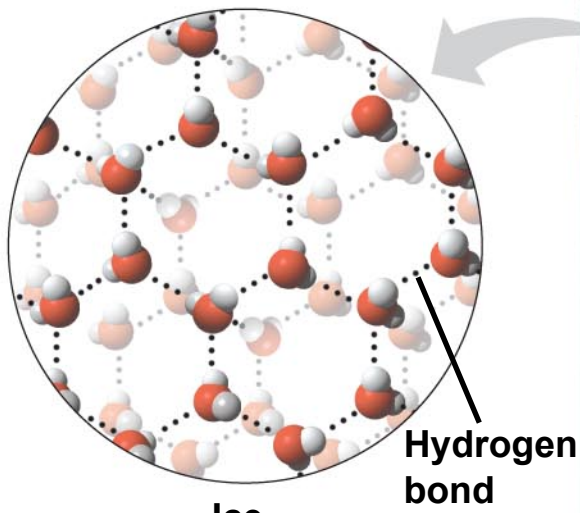


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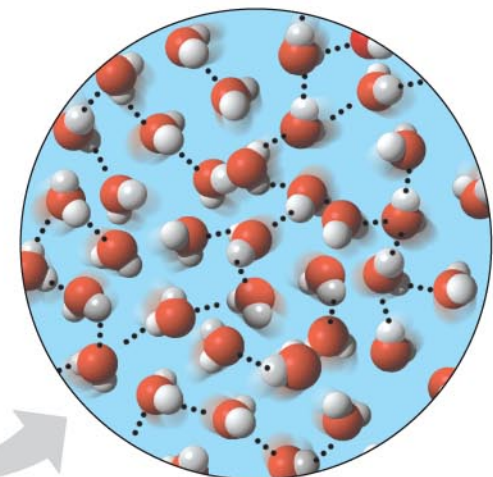
40 miles

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Ice

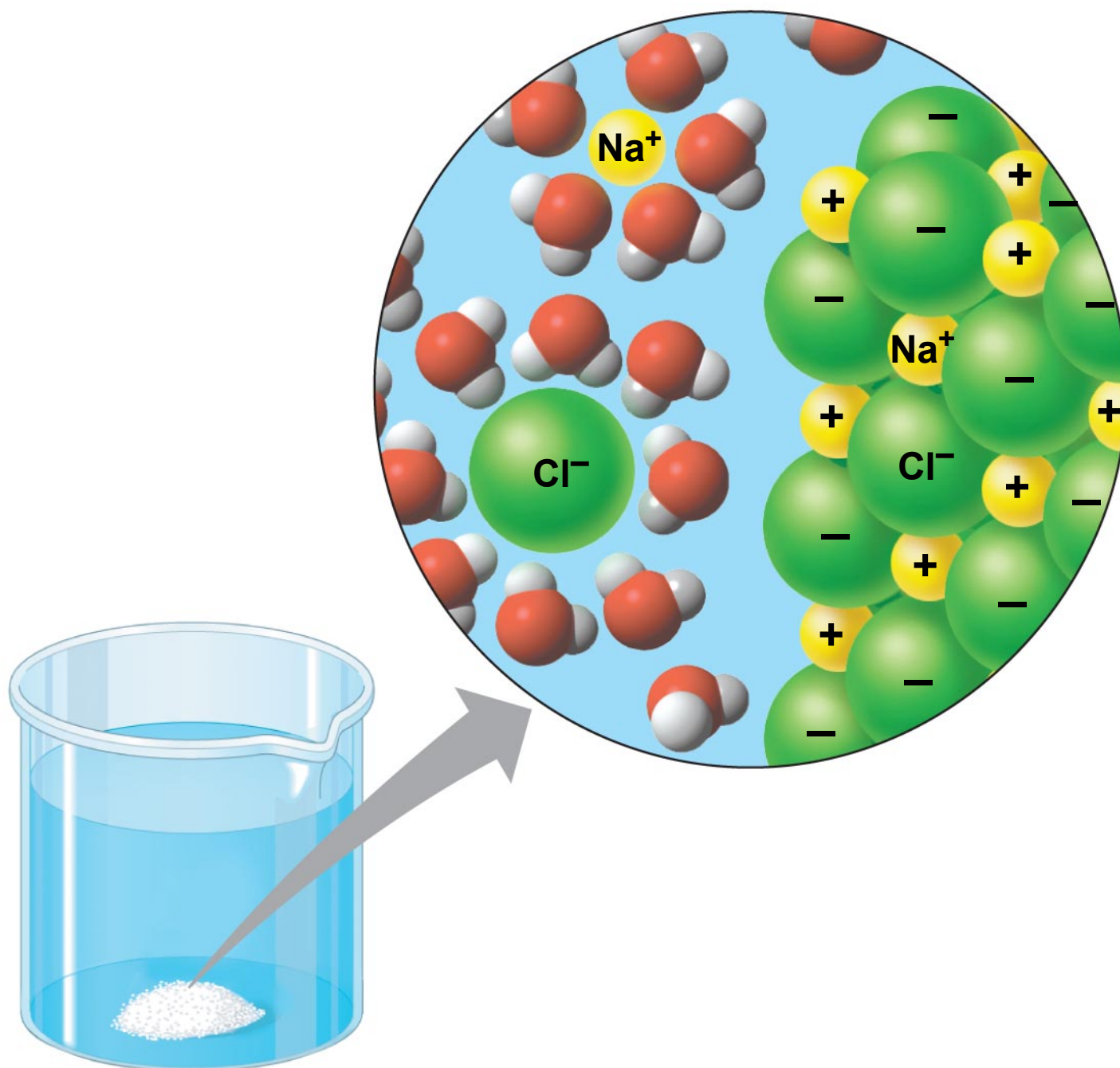
Hydrogen bonds are stable

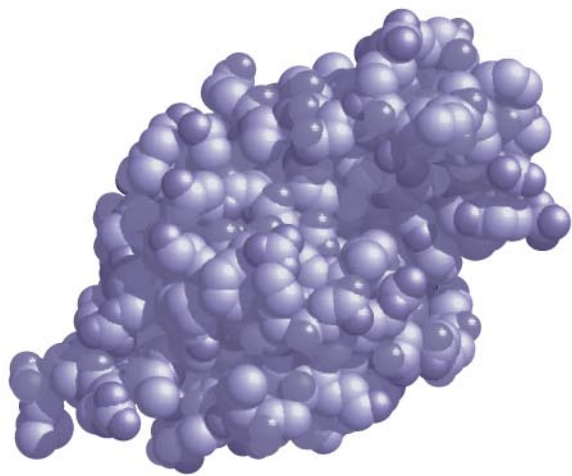


Liquid water

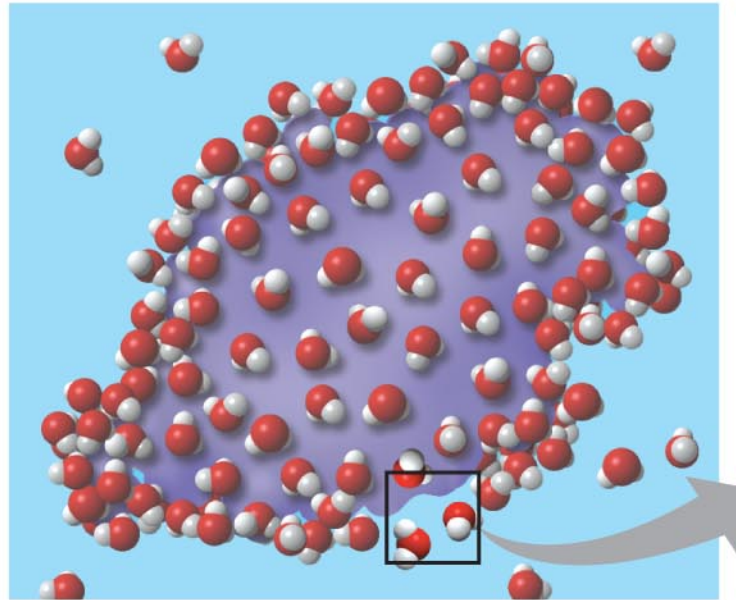
Hydrogen bonds break and re-form

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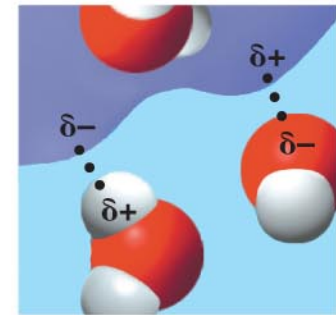




(a) Lysozyme molecule in a nonaqueous environment

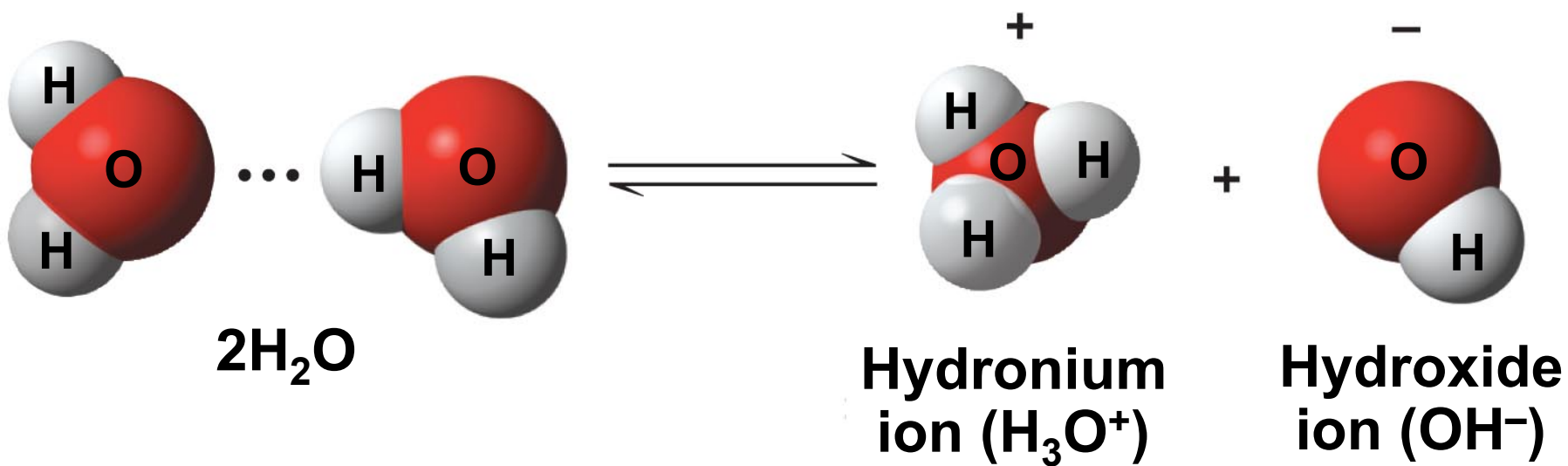


(b) Lysozyme molecule (purple) in an aqueous environment

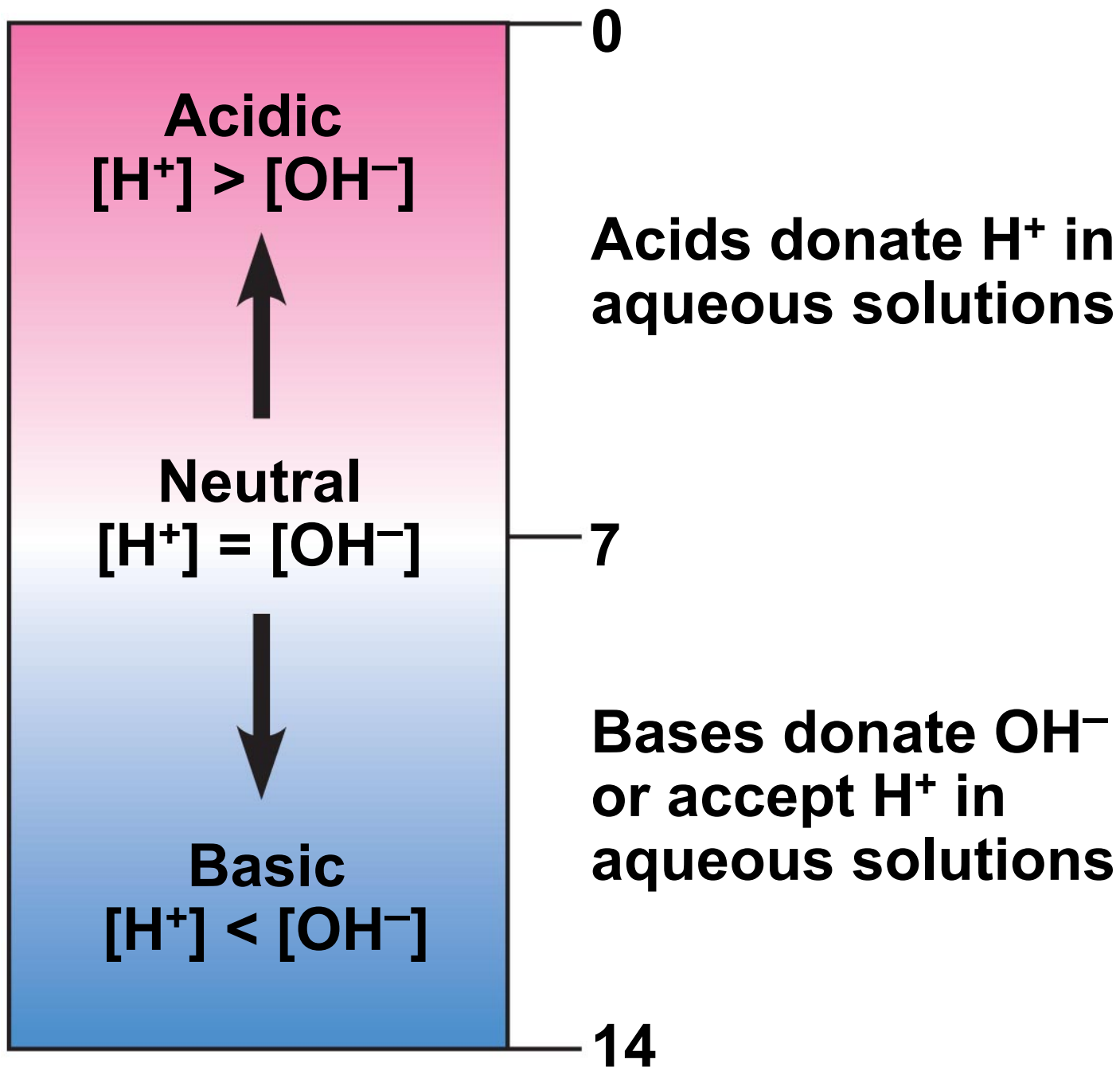


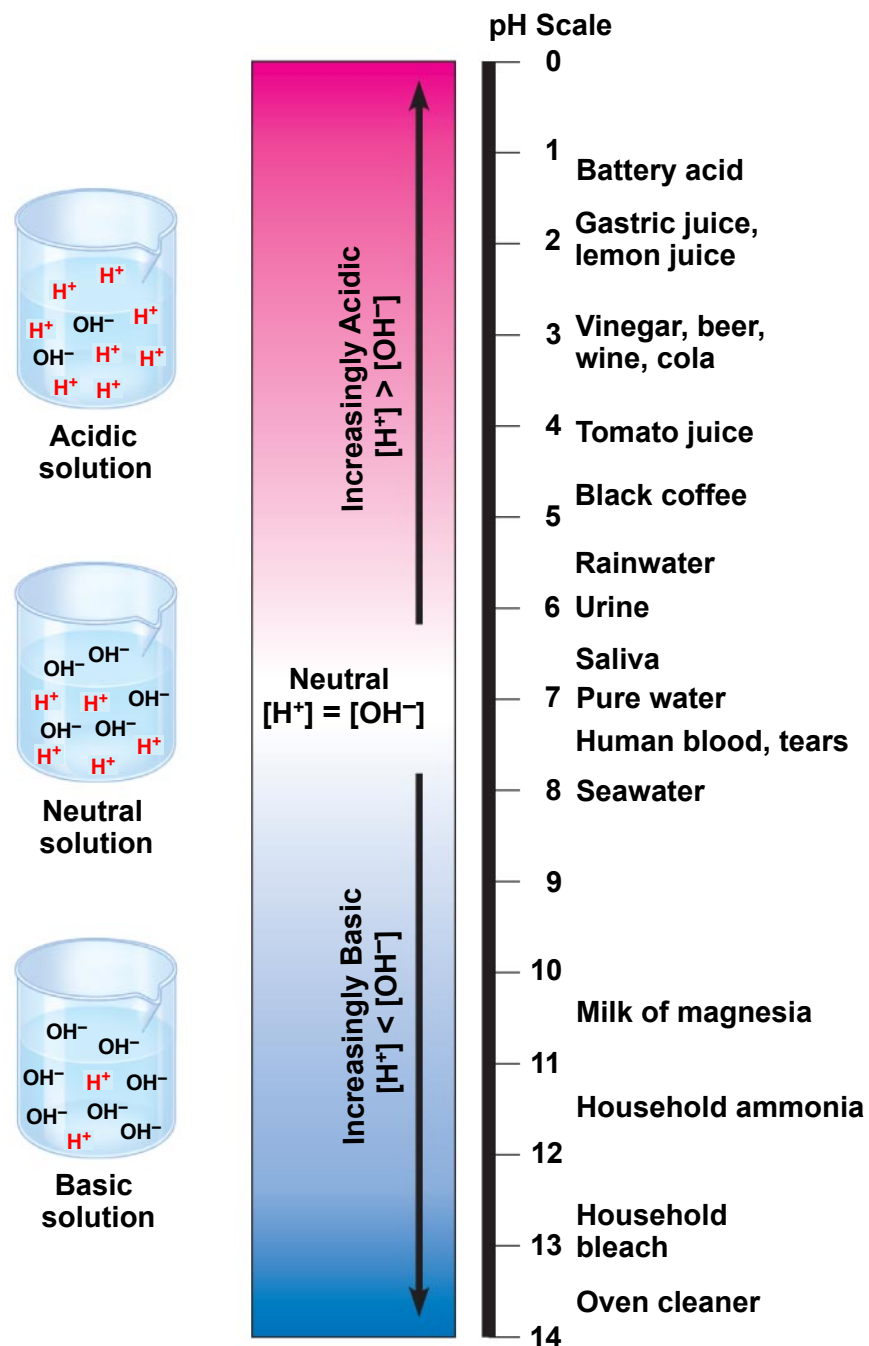
(c) Ionic and polar regions on the protein's surface attract water molecules.

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