

Molecules and Mixtures Assesment

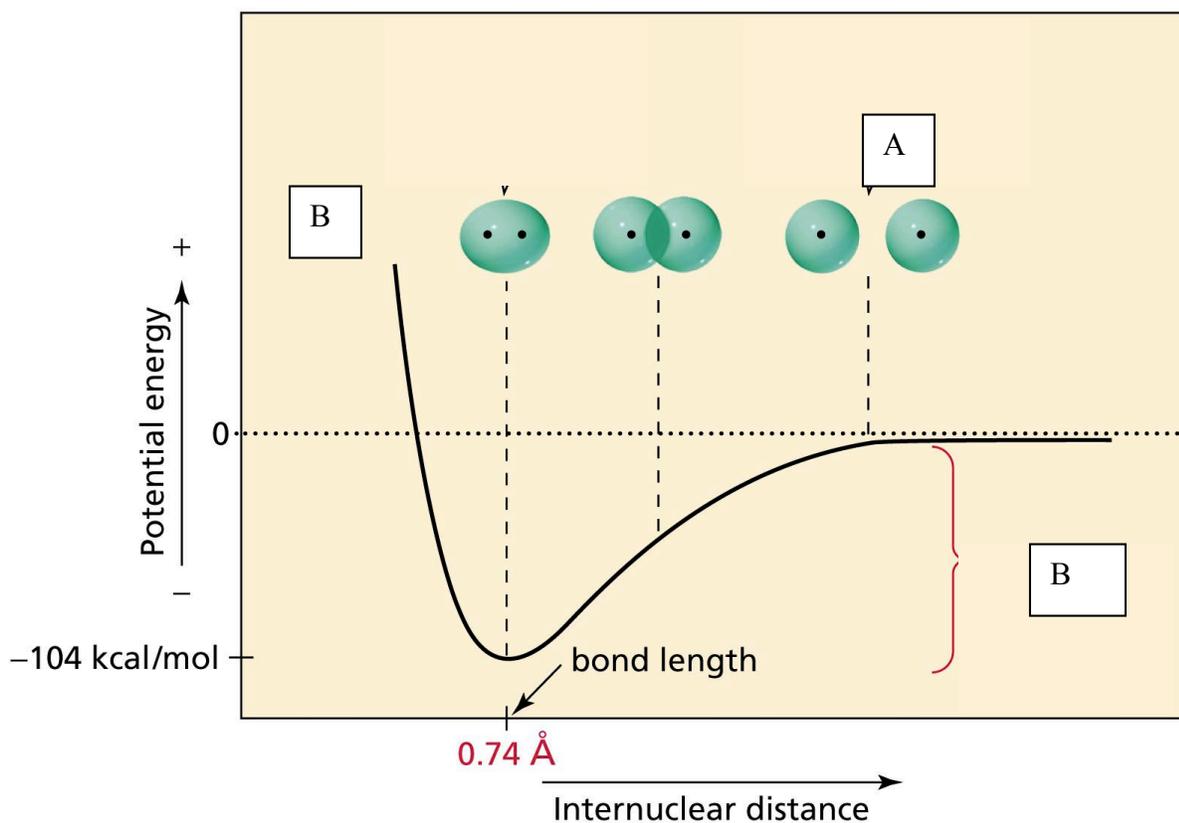
Name: _____ Date: _____

True or false

1. _____ An element is the smallest particle of matter that still retains the properties of the material.
2. _____ An atom has protons and neutrons in its nucleus and electrons orbiting the outside.
3. _____ A positively charged ion is an anion.
4. _____ Metallic bonding forms a cloud of electrons that are not tightly bound to individual ions.
5. _____ Ionic bonds form when one atom gives up its valence electron to another atom.
6. _____ Covalent bonds only form with Hydrogen.
7. _____ Electrons have more mass then protons.
8. _____ The atomic mass is the number of protons in an atom.
9. _____ The wave mechanical model predicts the probability of finding an electron.
10. _____ Bohr's atomic model assumes that electrons have discrete energies.

Fill in the blank

1. Electrons have a _____ charge, protons have a _____ charge and neutrons have a _____ charge.
2. The elements on the periodic table are organized by _____ atomic number.
3. A mixture is a combination of two or more _____.
4. Molecules are two or more _____ held together by chemical bonds.
5. Two or more elements that when chemically combined have characteristics different from the original elements is called a _____.



Use the words below to label the diagram above.

Long range attraction
 Short range repulsion
 Bond energy

Using the diagram above, estimate whether this bond will have a high or low boiling point and whether it will have a large or small thermal expansion.

