

- Physical property

 characteristic
 of a substance that can change without
 the substance's becoming a different
 substance.
- Typically include odor, color, volume, state (gas, liquid, solid), density, melting point, and boiling point.
 - Think of it this way, you can change the color of your hair, shape of your body, or your name, but you are still you!

- Chemical property

 characteristic
 that describes the ability of a substance
 to change to a different substance.
- Wood burning in a fireplace is a chemical change because it gives off heat and gases and leaves a residue of ashes (no longer wood!).
 - Other examples: steel rusting, food digesting, and plants growing.

Identifying Physical and Chemical Properties

Classify each of the following as a physical or a chemical property.

a. Gallium metal melts in your hand.



Physical Property Why?

When solid gallium melts, it forms liquid gallium.

Identifying Physical and Chemical Properties

- Classify each of the following as a physical or a chemical property.
 - b. The pages in your book are white.



Physical Property

Why?

Color is a physical property, it does not change the paper.

Identifying Physical and Chemical Properties

Classify each of the following as a physical or a chemical property.

c. The copper sheets that form the "skin" of the Statue of Liberty have acquired a greenish coating over the years.

Chemical Property

Why?

Copper reacts with air to form a new substance that is green.



