

## Pure Substances

Matter composed of a single chemical element or a compound

Examples of matter composed of a single element	Examples of matter composed of a single compound
oxygen gas in a tank	the CO <sub>2</sub> in a soda stream cartridge

Place the following forms of matter into the correct column above:

chunk of sulfur	the neon gas inside a glass tube
ice cube	the baking soda (NaHCO <sub>3</sub> ) inside a box
the hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) in a bottle	iron nail
sheet of aluminum (Al) foil	sugar cube (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> )

Some scuba divers use tanks filled with Nitrox in order to breathe underwater for a lengthy period of time. Nitrox contains nitrogen (N<sub>2</sub>) and oxygen (O<sub>2</sub>) gases. Is Nitrox a pure substance or a mixture? Explain your answer by using the definitions of the underlined words (write in complete sentences).

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