

General Chemistry
Mr. MacGillivray
Quiz #5:
Properties and Classification of Matter

Classify each of the following as a compound, mixture, or element.

- 1) _____ concrete
- 2) _____ water
- 3) _____ hydrogen
- 4) _____ kool-aid dissolved in water

Classify each of the following as a heterogeneous or homogeneous.

- 5) _____ kool-aid dissolved in water
- 6) _____ pepperoni pizza
- 7) _____ air

- 8) What is the name given to a homogeneous mixture of two substances?

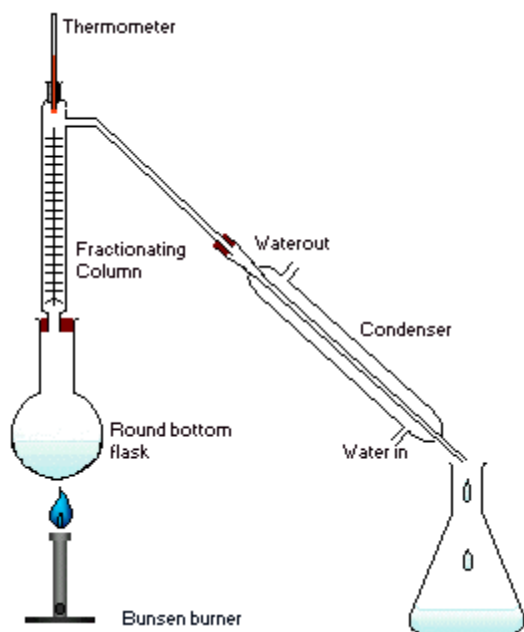
Identify each of the following as either a physical (P) or chemical (C) change.

- 9) _____ cooking a steak
- 10) _____ thawing out a frozen steak
- 11) _____ boiling water
- 12) _____ reacting hydrogen and oxygen to make water (H_2O)
- 13) _____ cutting a piece of rusty metal

Identify each of the following as either a physical (P) or chemical (C) property.

- 14) _____ color
- 15) _____ smell

***** Quiz Continued on Back ******



16) The apparatus above is used to (CIRCLE ONE):

- a) separate two substances based on a difference in their boiling points
- b) separate two substances based on a difference in their particle sizes
- c) separate two substances based on a difference in their magnetic properties

17) The process shown above is called (CIRCLE ONE):

- a) Filtration
- b) Crystallization
- c) Distillation

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Quiz #6:

Properties and Classification of Matter

Classify each of the following as a compound, mixture, or element.

- 1) M concrete
- 2) C water
- 3) E hydrogen
- 4) M kool-aid dissolved in water

Classify each of the following as a heterogeneous or homogeneous.

- 5) HOMO kool-aid dissolved in water
- 6) HETERO pepperoni pizza
- 7) HOMO air

8) What is the name given to a homogeneous mixture of two substances?

SOLUTION

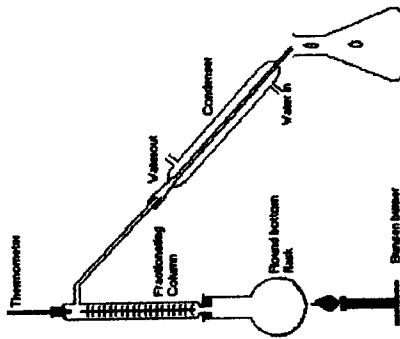
Identify each of the following as either a physical (P) or chemical (C) change.

- 9) C cooking a steak
- 10) P thawing out a frozen steak
- 11) P boiling water
- 12) C reacting hydrogen and oxygen to make water (H_2O)
- 13) P cutting a piece of rusty metal

Identify each of the following as either a physical (P) or chemical (C) property.

- 14) P color
- 15) P smell

*** Quiz Continued on Back ***



16) The apparatus above is used to (CIRCLE ONE):

- a) separate two substances based on a difference in their boiling points
- b) separate two substances based on a difference in their particle sizes
- c) separate two substances based on a difference in their magnetic properties

17) The process shown above is called (CIRCLE ONE):

- a) Filtration
- b) Crystallization
- c) Distillation