Properties of Matter

10th Grade Chemistry

Name:_____ Date:_____

I. Classify each of the following as a chemical or physical property. Write C if it is chemical and P if it is physical.

a) reacts with vinegar _____

b) is green _____

c) conducts heat _____

d) easily corrodes _____

e) boils at 110°C _____

f) dissolves in kerosene _____

g) can be drawn into a wire _____

h) is corrosive _____

i) is flammable _____

j) is 2.7 cm long _____

k) is malleable _____

l) condenses at -123 °C _____

m) has a density 1.3 g/cm^3 _____

n) reacts with water ____

II. Calculate the density of the following materials.

a. 35.0 g of a substance that occupies 25.0 mL

b. 2.80 g of a substance that occupies 2.00 L

c. Determine the volume that a 35.2 g of carbon tetrachloride will occupy it has a density of 1.60 g/mL.

d. The density of ethanol is 0.789 g/mL. What is the mass of a 150 L of this alcohol?

e. A block of lead displaces a volume of 27.00 mL. Calculate the mass of this block, if the density of lead is 11.34 g/mL.

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