## **CHEMISTRY PERCENT COMPOSITION PRACTICE PROBLEMS**

1. A 43.40mg sample of an alcohol contains 15.10mg O, 22.6mg C, and the rest is hydrogen. What is its percent composition?

Name:

2. Ethyl mercaptan is an odorous substance added to natural gas to make leaks easily detectable. A sample of ethyl mercaptan was composed of 1.64g S, 1.23g C, and 0.30g hydrogen. What is the percent composition?

3. Calculate the percent composition of each of the following compounds:

a) CO

b) CO<sub>2</sub>

c) KMnO<sub>4</sub>

d) Co(NO<sub>3</sub>)<sub>2</sub>

4. Cadaverine, one of the compounds responsible for the odor of decaying flesh, has the formula  $NH_2CH_2CH_2CH_2CH_2CH_2NH_2$ . What is the percent composition of cadaverine?

5. Which contains more carbon, 4.71g of glucose,  $C_6H_{12}O_6$ , or 5.85g of ethanol,  $C_2H_6O$ ?

6. A sample of an alloy of aluminum contains 0.0972mol Al and 0.0381mol Mg.a) What is its percent composition?

- b) How many grams of the alloy are needed to supply 150.0g of Al?