

Quiz 1

HCHE111, ELEMENTARY INORGANIC CHEMISTRY I, FALL 2017

NAME:

Problem 1.(5 points.) Ethanol freezes at -114.1°C . What is its freezing point on the Fahrenheit scale?

Problem 2.(15 points.) Diamonds are measured in carats, and $1 \text{ carat} = 0.200\text{g}$. The density of diamond is 3.51 g/cm^3 .

- A) What is the volume of a 5.0-carat diamond?
- B) What is the mass in carats of a diamond measuring 2.8 mL?