

Non Sibi High School

Andover's Chem 550/580: Advanced Chemistry

Chapter 2, Review Quiz 1

1

Convert the following:

- 0.040 milligrams neon to number of neon atoms
- 7.43×10^{25} magnesium atoms to kilograms magnesium

2

The density of liquid $\text{C}_2\text{H}_4(\text{NH}_2)_2$ is 0.90 g/mL. What is the volume in liters of 1.08×10^{26} molecules of $\text{C}_2\text{H}_4(\text{NH}_2)_2$?

3

The density of solid $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ is 1.59 g/cm³. How many molecules are in 0.075 m³ of $\text{C}_{12}\text{H}_{22}\text{O}_{11}$? How many carbon atoms are in this sample?



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