

Density of Liquids Post Lab Questions

Directions: Answer the following in COMPLETE SENTENCES in your post lab.

1. Place the liquids in order from least dense to most dense.
2. Are any of the liquids the same? How do you know?
3. What is density a measure of?
4. Why is reading the meniscus such an important part of this lab?
5. You are given 2 clear, colorless liquids. You measure the densities of these liquids to see whether they are the same substance or different ones.
 - a. What would you conclude if you found the densities to be 0.93 g/mL and 0.79 g/mL?
 - b. What would you conclude if you found the density of each liquid to be 0.81 g/mL?
6. Using the actual densities of the liquids given to you in class, calculate the % error of your densities for EACH liquid. Use the following equation to help you.
$$\% \text{ Error} = \frac{|\text{accepted value} - \text{experimental value}|}{\text{accepted value}} \times 100$$
7. What are 3 sources of error for this experiment? Explain your 3 choices.