Lab Report 2 Kaylen Karnes

Objective

Utilize two different types of glassware to find the density of two different liquids.

Results

|  |  |  |  |
| --- | --- | --- | --- |
| Regular |  | Diet |  |
| 2.1 | 2.068 | 2.4 | 2.5 |
| 4 | 4.142 | 3.6 | 3.855 |
| 6.1 | 6.296 | 5.4 | 5.566 |
| 8.2 | 8.355 | 7.2 | 7.366 |
| 9.4 | 9.755 | 9.8 | 9.94 |
| Density=1.0296 g/mL |  | Density=1.0236 g/mL |  |

Conclusion

Twist Up Regular had a larger density than Twist Up Diet. In order to calculate the density, divide the mass by the volume. The average density for Regular was 1.022 and the average density for Diet was 1.036. Sugar molecules were the reason why the density for Twist Up Regular was larger than Diet, it contributed to the mass. The volumetric flask was more accurate than the beaker because it was designed for measuring volume.