4. Density of liquid = 0.6578 g/cm³

24.018 / 36.5089 = 0.65786698..

25.00mL

Calculations

Density = mass/volume

Volume = mass/density

$$S = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

0.997 + 0.997 + 0.997

0.997

$= (0.026)^2 + (0.019)^2 + (0.014)^2$

0.99 0.59

0.30 0.59 0.42

Percent error = $\frac{\text{observed value} - \text{True value}}{\text{True value}} \cdot 100$

Cylinder

(mass of cylinder + water) − (mass of cylinder)

Pipet

(Mass + stopper + water) − (mass of flask + stopper)

Buret

Final buret − Initial buret = volume of water

(mass + stopper + water) − (Mass + Stopper) = Mass of water