

## Question #78745, Chemistry / General Chemistry

what is the density of isopropyl alcohol in g/ml if a 5.000mL sample has a mass of 0.00086lb?

**solution:**

1lb = 453.6 grams; 1ml = 1cm<sup>3</sup>

$$\text{Density } \rho = \frac{m \text{ mass}}{V \text{ volume}} = \frac{453.6 * 0.00086}{5.000} = 0.08 \frac{\text{g}}{\text{cm}^3} = 80 \frac{\text{kg}}{\text{m}^3}$$

**Answer provided by AssignmentExpert.com**