

Exercise 81

As an instructor is preparing for an experiment, he requires 225 g phosphoric acid. The only container readily available is a 150-mL Erlenmeyer flask. Is it large enough to contain the acid, whose density is 1.83 g/mL?

Solution

Use the given mass and density to calculate the volume that the acid takes up.

$$225 \text{ g} \times \frac{1 \text{ mL}}{1.83 \text{ g}} \approx 123 \text{ mL}$$

The 150-mL Erlenmeyer flask is big enough.