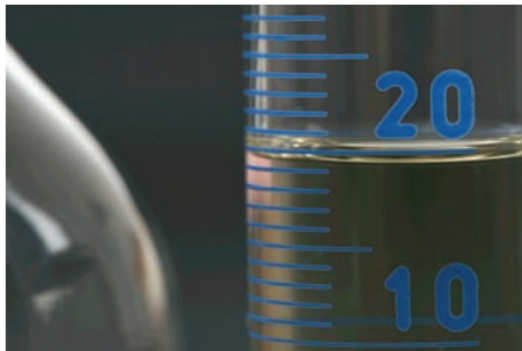


Exercise 1.52

You have a graduated cylinder that contains a liquid (see photograph). Write the volume of the liquid, in milliliters, using the proper number of significant figures.



Solution

Notice that there are markings for every milliliter.



The volume of a liquid is always measured from the bottom of the meniscus, which appears to be halfway between the “19” and “20” markings. Therefore, the recorded volume is

19.5 mL.

The uncertainty lies in the tenths place (the 5).