**10.** Record the temperature of the room and the atmospheric pressure.

**11.** Use the table of water-vapor pressures in your textbook to find the vapor pressure of water at the temperature of the room. Record this water-vapor pressure in your data table.

### Cleanup and Disposal

**12.** Clean all apparatus and your lab station. Return equipment to its proper place. Dispose of chemicals and solutions in the containers designated by your teacher. Do not pour any chemicals down the drain or in the trash unless your teacher directs you to do so. Wash your hands thoroughly before you leave the lab and after all work is finished.

### Data Table

| | |
|---|---|
| Length of Mg used | cm |
| Mass per meter of Mg | g/m |
| Volume of $H_2$ collected under lab conditions | mL |
| Temperature of $H_2$ collected | °C |
| Barometer reading | mm Hg |
| Vapor pressure of water at observed temperature | mm Hg |

**Observations:**

## CALCULATIONS

**1. Organizing Data** From the length of the magnesium ribbon you used and the mass of a meter of magnesium ribbon, determine the mass of the magnesium that reacted. Record this result and all your calculated results in your calculations table.

**2. Organizing Data** Calculate the number of moles of magnesium that reacted.