

# Experiment 13: Calculation of the Molar Volume of a Gas at STP and the Ideal Gas Constant, R

Sample Data and Results tables.

## Data Table

	Trial 1	Trial 2	Trial 3
Atmospheric pressure			
Mass of Mg ribbon			
Volume of H <sub>2</sub> gas collected			
Temperature of solution in beaker			
Vapor pressure of water			
Height of the column of solution in eudiometer			

## Results Table

	results
Average molar volume for hydrogen at STP	
%error molar volume of hydrogen	
% difference of molar volume of hydrogen	
Average ideal gas constant, R	
% error ideal gas constant, R	
% difference of ideal gas constant, R	