

Preclass Assignment

CHEM 1100-General Chemistry II

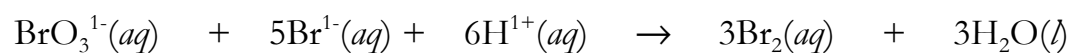
Name:

#3

Section: 31, TR

Due Date: Tuesday 1/22/2019

1. At room temperature, the following data was collected. Determine the rate law and calculate the rate constant:



Trial	Initial $[\text{BrO}_3^{1-}]$	Initial $[\text{Br}^{1-}]$	Initial $[\text{H}^{1+}]$	Initial Rate (M/s)
1	0.15	0.15	0.35	0.022
2	0.15	0.15	0.15	0.0040
3	0.15	0.20	0.15	0.0054
4	0.25	0.25	0.25	0.031