

Preclass Assignment

CHEM 1100-General Chemistry I

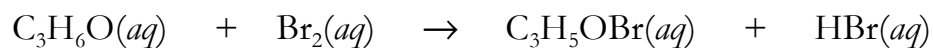
Name:

#5

Section: 31, MWF

Due Date: Monday 7/24/2017

1. At room temperature, the following data was collected for the reaction between acetone and bromine. Determine the rate law and calculate the rate constant:



Trial	Initial [C ₃ H ₆ O]	Initial [Br ₂]	Initial Rate M/s
1	0.130	0.225	2.13 x 10 ⁻⁵
2	0.0500	0.225	8.20 x 10 ⁻⁶
3	0.130	0.550	2.13 x 10 ⁻⁵