

General Chemistry

Kinetics

by

Aini Norhidayah Mohamed
ainin@ump.edu.my

Chapter Description

The rate constants for decomposition of hydrogen iodide, HI



Using the data below, plot $\ln k$ versus $1/T$, and determine the activation energy (in kJ/mol) for the reaction.

k ($\text{M}^{-1}\text{s}^{-1}$)	T (K)
3.52×10^{-7}	555
3.02×10^{-5}	629
2.19×10^{-4}	666
1.16×10^{-3}	699
3.95×10^{-2}	781