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Calculate  $E_a$ . Ans. 4.9. The activation energy for the reaction,  $2 \text{HI(g)} \rightarrow \text{H}_2 + \text{I}_2 \text{(g)}$  is  $209.5 \text{ kJ mol}^{-1}$  at 581

K. Calculate the fraction of molecules of reactants having energy equal to or



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