

Supporting Material

Figure Caption

Figure S Plot of the CVT/SCT rate constants calculated at the CCSD(T)/6-311++G(3df, 2pd)/MP2/6-311G(d, p) level and the available experimental values versus $1000/T$ between 189 and 2000 K for the (1) $\text{CH}_3\text{F} + \text{F} \cdot \rightarrow \text{CH}_2\text{F} + \text{HF}$, (2) $\text{CH}_3\text{Cl} + \text{F} \cdot \rightarrow \text{CH}_2\text{Cl} + \text{HF}$, and (3) $\text{CH}_3\text{Br} + \text{F} \cdot \rightarrow \text{CH}_2\text{Br} + \text{HF}$. k_1 , k_2 , and k_3 represent the rate constants calculated on the PES with BSSE correction and k_1' , k_2' , and k_3' represent the corresponding rate constants calculated on the PES without BSSE correction.

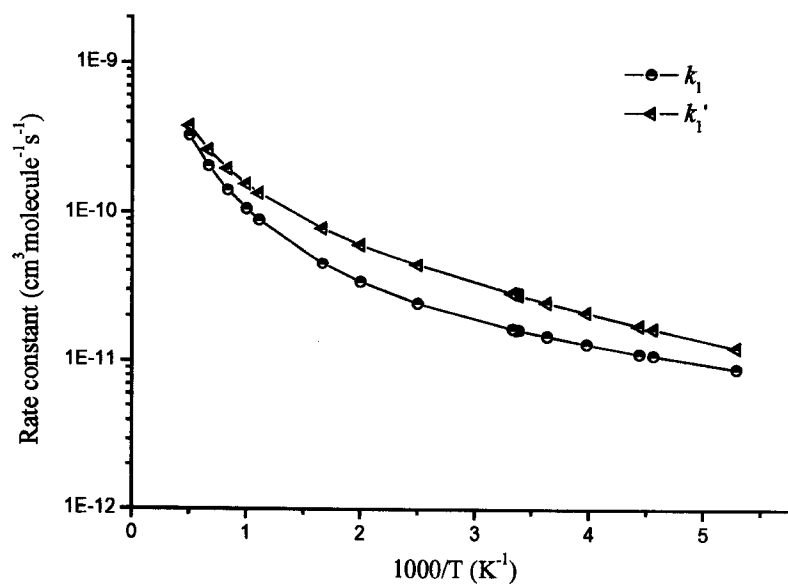


Figure S1

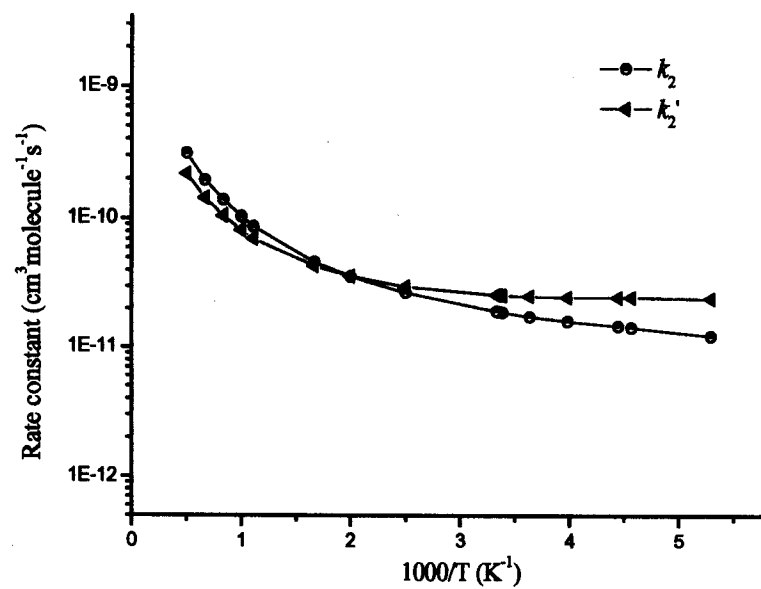


Figure S2

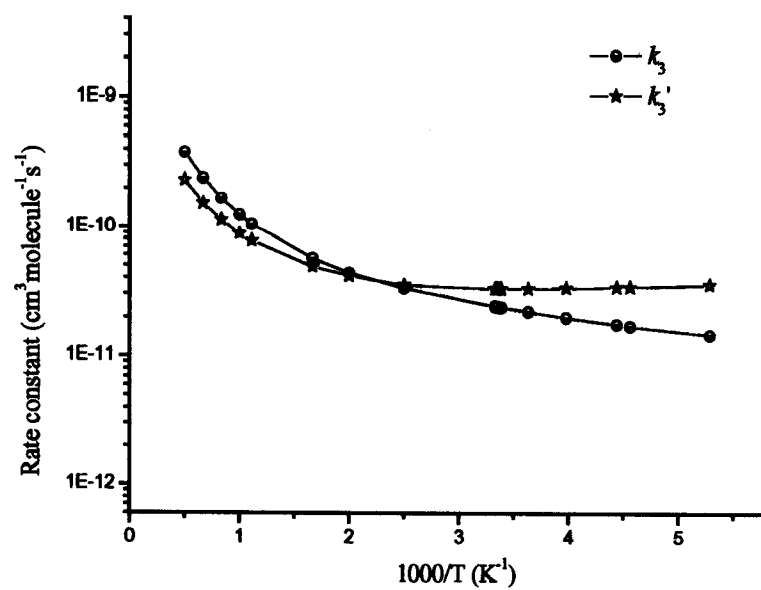


Figure S3