Reactants state   TS$_{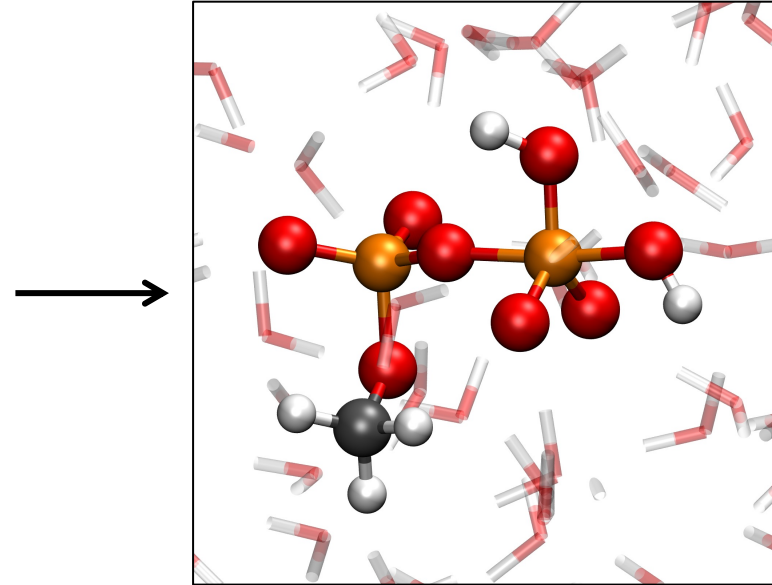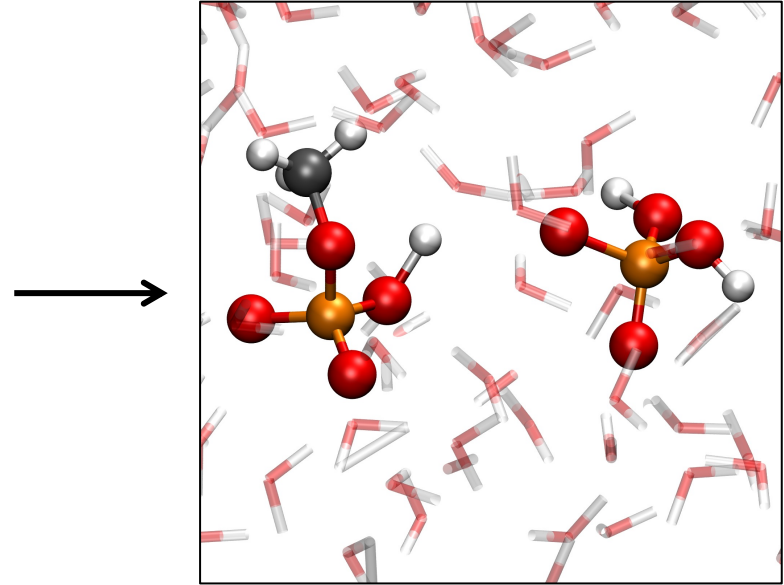assoc}$ Products state