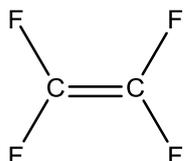


Answer on Question #56847 - Chemistry - General Chemistry

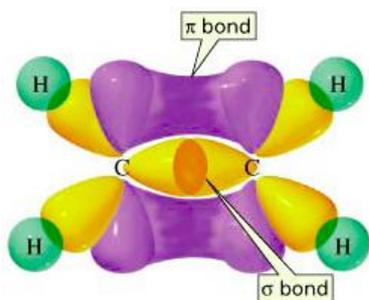
What atomic or hybrid orbitals make up the sigma bond between C1 and C2 in tetrafluoroethylene, C_2F_4 ?

Solution.

The structural formula of tetrafluoroethylene is:



As known, double bond between sp^2 hybrid orbitals formed by one sigma-bond and one pi-bond



Thus, hybrid sp^2 -orbital make up the sigma bond between C1 and C2 in tetrafluoroethylene.

Answer: hybrid sp^2 -orbital make up the sigma bond between C1 and C2 in tetrafluoroethylene