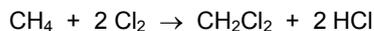




FREE RADICAL SUBSTITUTION 1

- In free radical substitution reactions, H atoms are replaced by halogen atoms (e.g. F, Cl, Br, I).
- For every one H atom that is replaced, one X₂ molecule is used and one HX molecule formed.

e.g. methane → dichloromethane



- 1) methane → bromomethane
- 2) methane → trifluoromethane
- 3) methane → triiodomethane
- 4) chloromethane → dichloromethane
- 5) ethane → chloroethane
- 6) chloromethane → chlorofluoromethane
- 7) ethane → hexachloroethane
- 8) propane → 1,1-dichloropropane
- 9) fluoroethane → 1,2-difluoroethane
- 10) fluoromethane → trichlorofluoromethane