

Ionic & Covalent Bonds

Covalent Bonds

sharing electrons
between atoms



likely to occur between atoms
with similar electronegativities → affinity for electrons

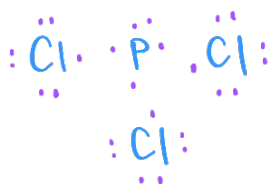


Why?

Similar appetite for electrons
→ unlikely to donate
→ share electrons to achieve

Octet!

Examples



Ionic Bonds

complete transfer
of valence electrons
btw atoms

metals

loses electrons



\oplus cation
(donor)

few valence
electrons

non metals

accepts electrons



\ominus anion
(acceptor)

Why?

close to 8
valence electrons

Octet!

Examples



Differences between Compounds & Molecules

Molecule

Substance contains of
2 or more elements

Examples



Molecular Compound

Substance made from one or
more than one kind of
element held together with

molecular bonds
(covalent)



Ionic Compound

substance made from one
or more kind of element
held together with ionic bond

