

Chemical names and formulas of covalent compounds

1. What is a covalent compound?

a chemical bond that involves the sharing of electron pairs with atoms

2. What type of bond is formed in a covalent compound?

A chemical bond

3. What is used in naming covalent compounds?

Similar method in naming ionic compounds using prefixes

4. Write the chemical formula for each of the following compounds.

(a) silicon dioxide SiO_2	(i) dinitrogen pentoxide N_2O_5
(b) chlorine dioxide ClO_2	(j) dinitrogen monoxide N_2O
(c) tellurium dioxide TeO_2	(k) arsenic tetrabromide AsBr_4
(d) selenium trioxide SeO_3	(l) arsenic pentachloride AsCl_5
(e) carbon disulphide CS_2	(m) disulphide pentoxide S_2O_5
(f) arsenic trichloride AsCl_3	(n) sulphur monochloride SCl
(g) chlorine heptoxide ClO_7	(o) phosphorus trichloride PCl_3
(h) selenium difluoride SeF_2	(p) diphosphorus pentoxide P_2O_5