

Covalent

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The mole is a unit representing a specific number of entities.

- 6.02×10^{23} number of particle in a substance
- The number of particles in 12g of carbon - 12
 - o 2,8,2

Covalent

Covalent bond - forms between non - metal, electron shared to be able to achieve stable structure

- The covalent bond is the electrostatic attraction between the positive nuclei and the shared pair of electron.

Draw Lewis structure

- Currently, we have to assume the single atom is the central of covalent structure

Put the electron that need to full of the valence shall at the outside around and them connect them together which each different atom

Different type of metals

Ferrous - metals they contain iron and are affected by magnetism (apart from stainless steel)

Non - ferrous - metals that do not contain iron and re not affected by magnetism.

Metal can also be grouped into:

Pure metals - metal made up from only one chemical element

Alloys - metal made up from a mixture of elements eg: copper + zinc

Alloying - metals are alloyed to improve the qualities of the individual pure metals

Corrosion when choosing metals, resistance to corrosion may be an important factor.

Corrosion is cause by oxygen in the air combining with the atoms of metal, at the surface of the metal, to create a new chemical called oxide