

IONIC

DEFINITION

an electrical attraction between a positively charged ion \oplus and a negatively charged ion \ominus



more protons \oplus
than electrons \ominus

atom loses
electron to
become \oplus
charge



more electrons
than protons \oplus

atom gains
electron to
become
 \ominus charge

PROPERTIES

- high boiling point
- high melting point
- solid @ room temperature
- dissolve in water
- conduct electricity
- brittle



COVALENT

DEFINITION

chemical bond formed when electrons are shared.

single \longleftrightarrow share one pair of electrons

double \longleftrightarrow share two pairs of electrons

triple \longleftrightarrow shares three pairs of electrons

PROPERTIES

- do not conduct electricity
- lower melting point
- do not separate in water
- lower boiling point
- can be solid, liquid or gas at room temperature

shared electrons circle both atoms



METALLIC

DEFINITION

bond formed when many metal atoms share their pooled electrons

LIKE IONIC

give away
electrons

LIKE COVALENT

metals
share
electrons

PROPERTIES

- high boiling point
- high melting point
- good conductors of heat & electricity
- shiny



Ionic Bonding Notes Guide

Konstantinos Papadopoulos

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Ionic Bonding Notes Guide:

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