

BORON FAMILY



ELECTRONIC CONFIGURATION



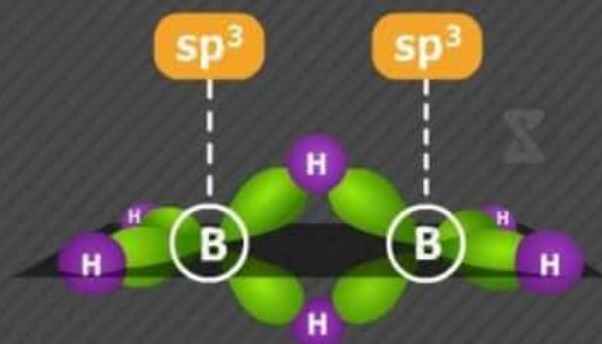
PHYSICAL STATE

Boron is a non metal.
Aluminium, Indium,
Gallium are metalloids.



Gallium has the **second lowest melting point** after mercury. It remains in liquid phase even at high temperatures.

DIBORANE (B_2H_6)



BH_3 is an electron deficient molecule. It has six electrons and a vacant orbital. So, it is used as an electrophile in organic reactions.

AMPHOTERIC

$Al(OH)_3$ is amphoteric



Strength between Al - O
and O - H is same.

Bond strenght Al - O = Bond strenght O - H



Aluminium is used in tins, aeroplanes and even in Iphone

Borax ($Na_2B_4O_7$) is used
for cleaning and washing
purposes.



Aluminium was classified as precious
metal during 19th century. **Napoleon III**
gave aluminium cutlery to his
most valuable guests, all other
guests had to eat with gold cutlery.



Indium is used in display
screens of television
and mobiles.



Thallium is used as rat
poison.

