

In the structure of diborane

- (i) All hydrogen atoms lie in one plane and boron atoms lie in a plane perpendicular to this plane.
- (ii) 2 boron atoms and 4 terminal hydrogen atoms lie in the same plane and 2 bridging hydrogen atoms lie in the perpendicular plane.
- (iii) 4 bridging hydrogen atoms and boron atoms lie in one plane and two terminal hydrogen atoms lie in a plane perpendicular to this plane.
- (iv) All the atoms are in the same plane.