

The geometry of a complex species can be understood from the knowledge of type of hybridisation of orbitals of central atom. The hybridisation of orbitals of central atom in $[\text{Be}(\text{OH})_4]$ – and the geometry of the complex are respectively

(i) sp^3 , tetrahedral (ii) sp^3 , square planar (iii) sp^3d^2 , octahedral (iv) dsp^2 , square planar