Bond type The ionization energy required to produce M5+ is so immense that it never occurs. A coordination number of 4 is obtained by donating this long pair to another atom or ion, for example in the ammonium ion. Outer electronic structure of group V elements BiO Bi3+ H2O HCI The three unpaired electrons form bonds with three other atoms, and the resultant molecule is tetrahedral with one position occupied by a lone pair. Fluorine is the only element which gives a large enough electronegativity .difference to permit ionic bonds, and SbF3 and BiF3 exist as ionic solids.3