A compound X, of boron reacts with NH3 on heating to give another compound Y which is called inorganic benzene. The compound X can be prepared by treating BF3 with Lithium aluminium hydride. The compounds X and Y are represented by the formulas.

(i) B2H6 , B3N3H6 (ii) B2O3, B3 N3 H6 (iii) BF3, B3N3 H6 (iv) B3N3H6 , B2H6