

Note: It is Coordinate Bond not banana bond.

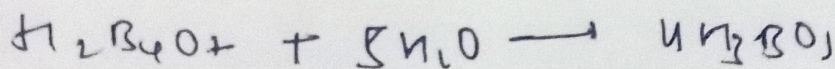
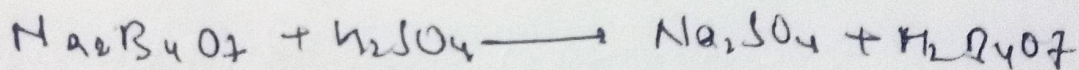
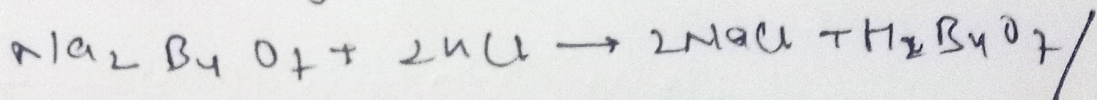
They only exist in vapour & non-polar solvent  
Dis appear in (Water.)

BORON:

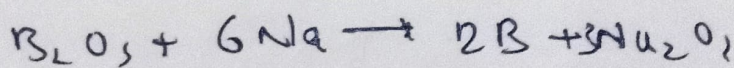
Ores:  $\text{Na}_2\text{B}_4\text{O}_7 \rightarrow \text{Borax}$ .

Colemanite  $\rightarrow \text{Ca}_2\text{B}_6\text{O}_{11} \cdot 5\text{H}_2\text{O}$

Extraction of Boron from Borax.



Now this  $\text{B}_2\text{O}_3$  is made to react with metal to form Bor



Reduction:  $\text{B}_2\text{O}_3 + 3\text{Mg} \rightarrow 2\text{B} + 3\text{MgO}$  Most economical

Boron Halides:  $(\text{BX}_3)$

Except  $\text{BF}_3$  all can be prepared from halogens.

