

### Answer on Question #83882, Chemistry / Inorganic Chemistry

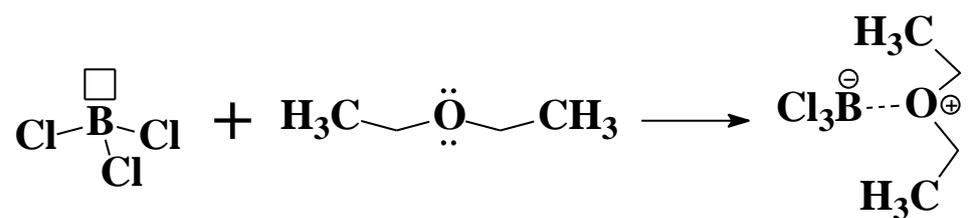
Describe how boron trichloride may coordinate with diethylether in order to form boron trichloride diethyletherate

#### Answer

In  $\text{BCl}_3$  boron atom has unoccupied p-orbital. This type of compounds is called Lewis acid.

In diethylether oxygen atom has lone pairs of electrons. This type of compounds is called Lewis base.

So the coordination occurs because the boron accepts the oxygen's lone pair of electrons.



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