Chemistry Formula Sheet

Chapter by chapter, topic by topic. Written by the PadhoNa team for quick revision.

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CHAPTER 12

p Block Elements (Group 13 and 14)

Group 13

INERT PAIR EFFECT

stability of $+1$ rises down the group: Tl^{+} more stable than Tl^{3+}

BF_3 is a Lewis acid; diborane B_2H_6 has two 3c–2e bridges

BORAX BEAD

$$Na_2B_4O_7 \cdot 10H_2O \xrightarrow{\Delta} NaBO_2 + B_2O_3$$

Group 14

catenation: $C \gg Si > Ge \approx Sn$; $\quad +2$ state stable for Pb

SILICATES

basic unit SiO_4^{4-} (tetrahedral)

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