Chemistry Formula Sheet

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

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CHAPTER 22

p Block Elements (Group 15, 16, 17 and 18)

Group 15

$$\text{hydride basicity: } NH_3 > PH_3 > AsH_3; \qquad \text{bond angle falls down the group}$$

$$\text{oxoacids of P: } H_3PO_2 \text{ (monobasic)}, H_3PO_3 \text{ (dibasic)}, H_3PO_4 \text{ (tribasic)}$$

Group 16

$$\text{acid strength of hydrides: } H_2O < H_2S < H_2Se < H_2Te$$

CONTACT PROCESS

$$2SO_2 + O_2 \xrightarrow{V_2O_5} 2SO_3$$

Group 17

$$\text{oxidising power: } F_2 > Cl_2 > Br_2 > I_2; \qquad \text{acid strength: } HI > HBr > HCl > HF$$

$$\text{bond energy: } Cl_2 > Br_2 > F_2 > I_2$$

OXOACID STRENGTH

$$HClO_4 > HClO_3 > HClO_2 > HClO$$

Group 18

$$XeF_2 \text{ linear; } XeF_4 \text{ square planar; } XeF_6 \text{ distorted octahedral; } XeO_3 \text{ pyramidal}$$

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