

"CHEMICAL BONDING"



8 electron



6 electron

↓
Short octet.
Group IIIA element
in compound form
show short octet.



10 electron
extended octet.

- a) NH_3
- b) SO_2
- c) AlCl_3
- d) B and C

- SHORT OCTETS ARE ALWAYS LEWIS ACID.
- EXTENDED OCTETS MAY OR MAY NOT BE LEWIS BASE.

ENERGETICS OF BOND FORMATION:

Formation

$$\Delta H = -ve$$

Energy released

So overall energy less

So stability occurs.

Bond length

or
Bond distance

or
compromise bond distance.

Breakage

$$\Delta H = +ve$$

Heat absorbed.

Overall energy increases

Stability loses.

Chemical Bonding Notes And Study Guide Answers

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