

"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.

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