

Course on Periodic Table for Class IX 2023



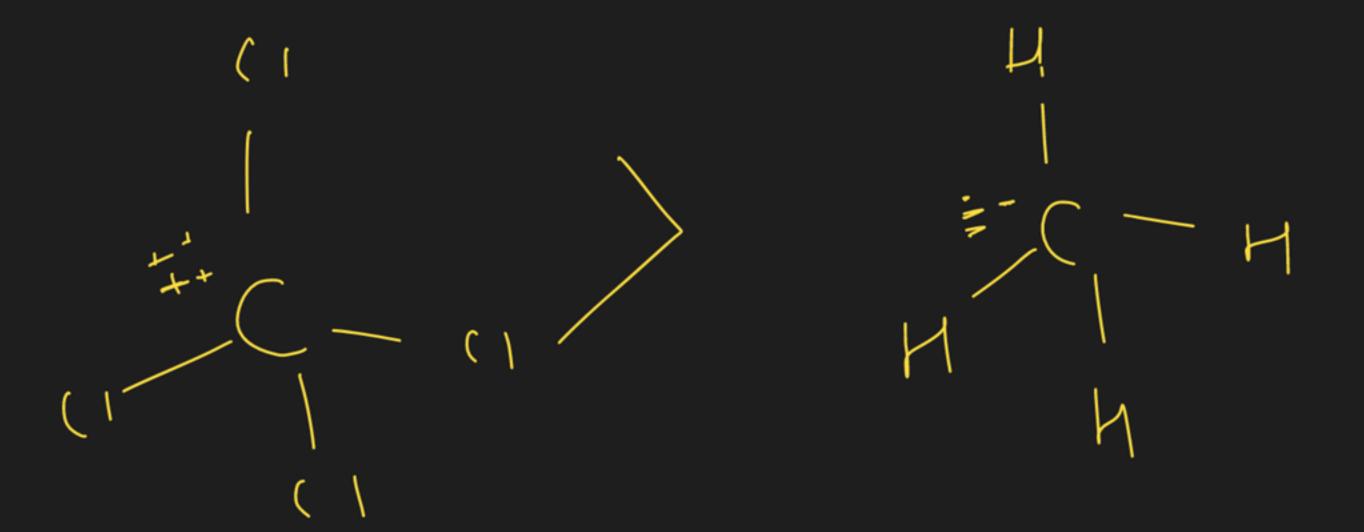
 $\frac{\text{tybhid}}{0 \text{ NLital}} \frac{\text{Sp}}{2} \times 100 = \frac{1}{3} \times 100 = \frac{1}{4} \times 100$



4

 $\frac{sp^3 sp^3}{sp^3} = \frac{sp^2}{sp^2} = \frac{sp^2}{sp^2}$ () EN dep. on ous (tive) Rt / Pe tive Charge Tatt E.N

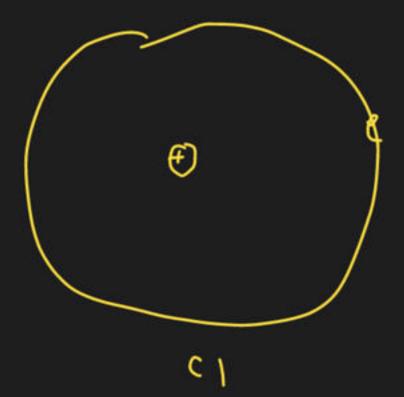
AI < AI < AI+ also dep on surrounding atom





Note

- S + S - C 1 - C 1 - 3



Zeff g N > Zeff g C1

chie to

small size

Size

H-H (nonpolar)

The polar)

-8 pt 4 least polar bond }
2.12 2.10 in tilteen group

which of the following bond is
least polar in 15th group

N-H

S
P-H

(3) AS-H

(4) Sb-H

thenas_ Zeff size my E.N T Except En of Noble gas = of scito pauling Note = Note = Down the group & N & but in

Al family does not found



April

(17) (12) (hemistry

1) - 1 year Chemistry - Nov. - X [v]

[1]

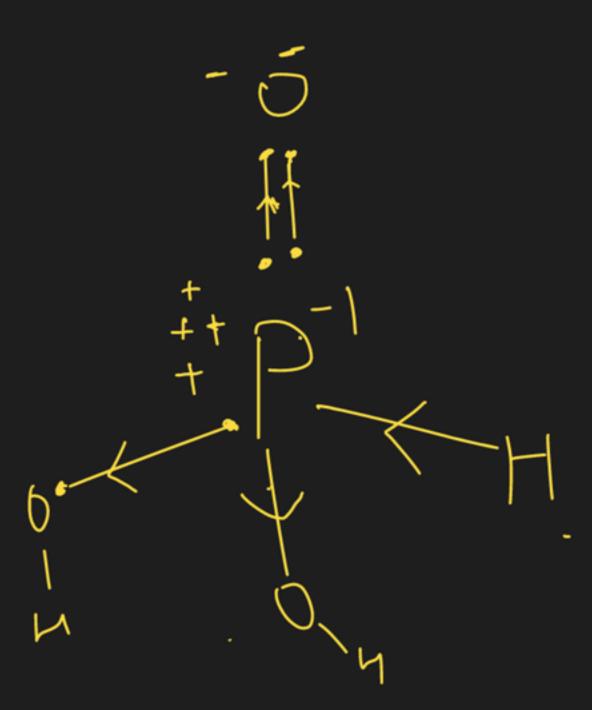
[2]

NOVI Gh Properties effected by Electronegativity

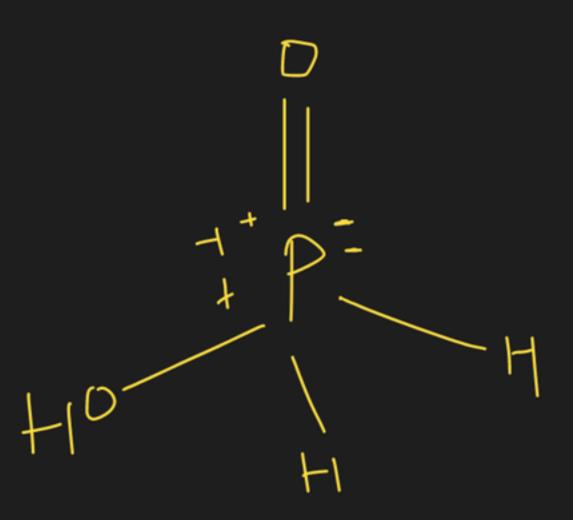
(1) More E'N diff, more partial charge, more

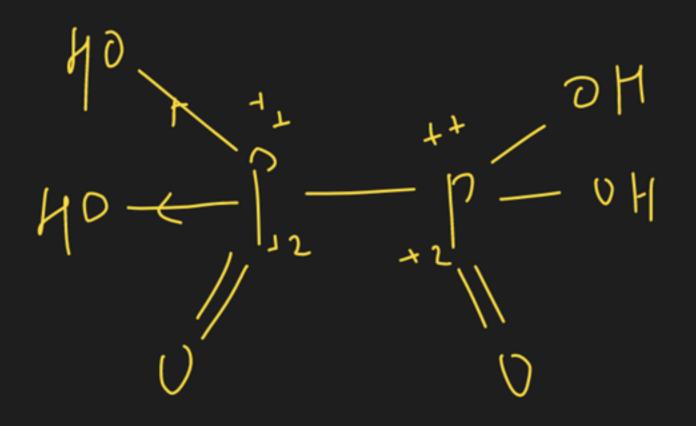
sonic (h. and more polarity more tolarity (16 D + 3.5 B) Memy Amith D= E.N Styl H-F) H-(1) H-BL) H-T

in JPB in following structure 6 · S 11 S O H



O the (Sulphonic acid) A HD





Demposion of Bond length and Bund Strongth

if EN diff then b.l | and bond 8trongth t (Keeping other parameters constant like size-limiter St reyth H-F> H-O> H-N Bondleyth H-F (H-O (H-N

4- (1 h- H H-11 on the basis We Com't Compare H-n and of this factor six of too much greater than that of A

.

and Which of the forwaring bond is knot tolar (3) 0-4 (2) N-H 2.5 2.1 3 2.1 (3) 0-4 (4) F-H 4 2.7 but 11 - 11 = 11 10 - 11 = 11 11 - 01 = 11 (1) 15, +5 (2) +3, +3 (3) +5,+3 (4) none

find the Ionic ch. in H(1)

(1) 11.235 (2) 15 (3) 12/ (4)20/.

 $= |(\Delta + 3.5 \Delta^{2})|$ $= (x(.9) + 3.5(0.9)^{2})$ = |(7.235)|

 $\int H = 2.1$ C1 = 3



$$B = 2$$

$$A_1 = 1.61$$

$$G_9 = 1.81$$

$$T_1 = 1.78$$

$$T_1 = 1.62$$

2.1 H Li Be B C N 3.5 4F