

B Noz Sz Oz 1 KC103 2+2x-6=0 0=2-x2+x+1+ x+4x0+0-1=2 $\chi = 2$ x = +5x = +3

$$2 + 2x - 6 = 0$$

 $x = 2$
(a) $H_5 = 0$

$$\alpha = 7$$

@ Fe0.940

3 <u>50</u>-2

0.94x -2=0

x = 2 = 2000.94
94

4x + 6x - 2 = -2

4x-12=-2

x = 2.5

0. N of Cx = +6

0.N of 0 = -1

[-0-0]

peroxy Bond = 2

Aug of 0 = -6

$$6) \quad K N_3$$

$$1 + 3x = 0$$

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→ 3+4+3×44=0

 $x = \frac{7}{3}$

> 1/2 SOY

 $\chi = +6$

(N2 M5) \$ O4

28 + X - 8=0

$$x+4=1$$
 $x-6=-1$
 $x=-3$ $x=+5$

$$x = -4 + 6$$

M2505

①
$$Cr0_5$$
② Br_30_8
 O^2
 O^2

$$|| \quad || \quad 0 = -2$$
Peroxy Bond = 0

$$0 = 38 - 37 - 37 = 0$$

$$||+2||+2 ||+2||+2 ||+2| = 0$$

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P. Linkage = 1

A. Vo. N of
$$0 = -\frac{4}{3}$$

Aug oxid No . = Ho. Total charge of atom y Alato No. of atomy

(4)
$$k_3(x)0_8$$

(5) $k_3(x)0_8$

(6) $k_3(x)0_8$

(7) $k_1 = 0$

(8) $k_2(x)0_8$

(9) $k_3(x)0_8$

(10) $k_1 = 0$

(11) $k_1 = 0$

(11) $k_2 = 0$

(11) $k_3 = 0$

(11) $k_3 = 0$

(12) $k_3 = 0$

(13) $k_3 = 0$

(14) $k_3 = 0$

(15) $k_3 = 0$

(16) $k_3 = 0$

(17) $k_3 = 0$

(18) $k_3 = 0$

(19) k_3

exist as 2Pbo. Pbo2 O.N of S = +6 o.N of 0 = -1 & -2 0-N of N = +1 How to find P-L without structure. g. Cx05 -> Peroxy linkage is present when 2-10=0 x = +10 > +6Aug O.N > Max O.N Yes, P.Z is present Max O. N fox 38 d Block -> group No. g ' H2 SO5 2+x-10=0 for p Block → group. No -10 n=+8>+6 Yes, P-L is present

Mow to find no. of P.L without struct in w.

atom is present

$$P \cdot L = \frac{\text{Avg O.N} - \text{maxO.N}}{2}$$

$$P. L = \frac{10-6}{2} = \frac{4}{2} = 2$$

$$P.Z = \frac{13-6}{2} = \frac{7}{2} \approx 3.5 \approx 4$$

Case I: when only one central Case II: when two C. A are present

$$\xi_{3} H_{2} = 0_{8}$$
 $2 + 2\pi - 16 = 0$
 $x = 47 > +6$

$$P \cdot L = 7 - 6 = 1$$

$$G + No_3 \longrightarrow G^{+2} + No_2$$

O.NT, oxidises itself, Reducing agent

Cose I: If C.A is in its max. o. N

Reduces itself, oxidizing agent g kmnoy, K2 C7207, HNO3, etc

600 3:89, M28, SnC/2, HCl

Case 3: If C.A is in its inleamediate O.N oxidises, Reduces itself,

Oxidizing & Reducing agent Both eg HNO2, HIO3. etc.

Normality (N)

N= No. of gm equivalent Volume (in L)

No. of gm equi = $\frac{\text{Weight}}{\text{Equivalent Weight}}$

Equivalent weight = Atomic 08

Moleculor weight n-factor

Normality = Molarity x n-foctor

1-lactor

D'Case I: for acids of = no. of rtions furnish

& 4, soy - + + 4 soy n≠=1

4 SOy -> 24+ SOy2nf = 2

 $H_3 PO_4$, nf = 1, 2, 3M3 PO3, nf = 1,2 4, PO2, nf=1

M2808, nf=1

Case 2: for Bases

nf = no. of out ions furnish in the solution

 $Mon \rightarrow \eta f = 1$

 $M(on)_2 \rightarrow nf = 1, 2$

 $M(OH)_3 \rightarrow nf = 1, 2, 3$

Cose 3: for salts

nf = Total tre charge or Total -ve charge

g Nacl → nf=1

Cada - nf = 2

 $Ca_3(PQ)_2 \rightarrow nf = 6$

Alpoy -> nf = 3

Cose 4: Redox Rxn.

I: When only one atom can undergor either oxidation or reduction

 $nf = (7-2) \times 1 = 5 \times 1 = 5$

 $kMn O_{y} \longrightarrow k_{2}MnO_{y} \rightarrow Rasic$ nf = (7-6)x1 = 1medium

 $KMnO_{y} \longrightarrow MnO_{2} \longrightarrow Alkaline$ $nf = (7-4) \times 1 = £3$

 $k_2(r_2)_7 \longrightarrow (r^{+3} \text{ nf} = (6-3) \times 2$

Eq.
$$fe S_2$$
 \longrightarrow $fe^{+3} + So_y$ ge $fe C_2 O_y^2 \longrightarrow$ $fe^{3+} + Co_2$

$$nf_1 = (3-1) \times 2 = 10$$

$$nf_2 = (3-1) \times 1 = 1$$

$$nf_2 = (4-3) \times 2 = 2$$

$$nf = |0+1=1|$$
 $nf = 2+1=3$

 $nf_1 = 2 \times 4 = 12$

Eg.
$$S_8 \longrightarrow S^2 + S_2 O_3^2$$

 $nf_1 = 2 \times 8 = 16$
 $nf_2 = 2 \times 8 = 16$
 $nf = \frac{16 \times 16}{16 + 16} = \frac{16 \times 16}{2 \times 16} = 8$

 $nf = \frac{2 \times 10}{210} = \frac{20}{12} = \frac{5}{3}$