								4								HALC	GEN
(†) 1												CH	IALCO	GEN/			18
1A														-14			8A
1	(+2)											+3	(4 9)	3	0	ED	2
H2	2								٠.			13	14	15	16	17	He
1.008	2A											3A	4A	5A	6A	7A	4.003
3	4											5	6	7	8	9	10
Li	Be											B	C	Nz	02	F ₂	Ne
	9.012											-	12.01		16.00	19.00	20.18
11	12											13	14	15	16	17	18
Na	Mg	3	4	5	6	7	8	9	10	11	12	Al	Si	Pu	Sg	Cl	Ar
22.99	24.31	3B	4B	5B	6B	7B	8B	8B	8B	1B	2B		28.09	30.97	32.07	35.45	39.95
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br ₂	Kr
39.10	40.08	44.96	47.88	50.94	52.00	54.94	55.85	58.93	58.69	63.55			72.59	74.92	78.96	79.90	83.80
37	38	39	40	41	42	43	44	45	46	47⊕	48	49	50	51	52	53	54
Rb	Sr	Y	Zr	Nb	Мо	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	12	Xe
35.47	87.62	88.9	91.22	92.91	95.94	(98)	101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.B	127.6		131.3
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs	Ba	La	Hf-	Ta	W	Re	Os	Ir	Pt	Au	Hg	TI	Pb	Bi	Po	At ₂	Rn
132.9	137.3	138.9	178.5	180.9	183.9	186.2	190.2	192.2	195.1	197.0		204.4	207.2	209.0	(210)	(210)	
87	88	89	104	105	106	107	108	109				-	_			-	
Fr	Ra	Ac	Unq	Unp	Unh	Uns	Uno	Une									
(223)	(226)	(227)	(257)	(260)		(262)	265)	(266)									

More METALLIC

Alkali -Alkali Enth (SOLUBLE)

Lanthanides

	58	59	60	61	62	63	64	65	66	67	68	69	70	71
_	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Но	Er	Tm	Yb	Lu
	140.1	140.9	144.2	(147)	150.4	152.0	157.3	158.9	162.5	164.9	167.3	168.9	173.0	175.0
	90	91	92	93	94	95	96	97	98	99	100	101	102	103
	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
	232.0	(231)	238.0	(237)	242	(243)	(247)	(247)	(249)	(254)	(256)	(256)	(254)	(257)

- Actinides

ACIDS/HYDRATES

POLYATOMIC

DBINARY ACIDS:

- Hydrogen and I nonmetal atom
ie: HCl=>hydroChloric Acid

2 OXOACIDS:

- ate=>"ic"

- ite => ous"

ie: H2SOy => Sulphoric Acid

HNO2=> Nitrovs Acid

- Hybrogen & Oxygen & Element

3 HYDATES:

-Water molecules attached

ie: CaSOy. 2 H2O=> Calcium Sulphate dihydrate
Na2SOy. 4 H2O=> Sodium Sulphate tetrahydrate

	7110 +0 10 5
AsO4-3	ARSENATE
B03-3	BORATE
(SOLUBLE) C2H3O2-	ACETATE
doll should CN _	CYANTOE
CIO4	PERCHLORATE
(SOLUBLE) CIO3 -	CHLORATE
CIO2	CHLORITE
CIO	HYPOCHLORITE
CO32	CARBONATE
C2042	OXALATE
CrOy	CHROMATE
Cr20,2	DICHROMATE
HCO3	BICARBONATE

HC20q BINOXALATE

HS BISULPHIDE

HSO_ BISULPHITE

HSO_ BISULPHATE

HPO_ MONOHYDROGEN PHOSPHATE

NO2 PERMANGANATE ATE

NITRATE

OH HTDROXIDE

O2 PEROXIDE

PO43 PHOSPHATE

(SOLUBLE) NO3.

PYROPHOSPHATE

SCN THIOCYANATE

SiO4 ORTHOSILICATE

SO, SULPHITE
SOU SULPHATE

S2032 THIOSULPHATE

(SOLUBLE) NHy ------ AMMONIUM (CATION)