

# ПЕРИОДИЧНА ТАБЛИЦА НА ХИМИЧНИТЕ ЕЛЕМЕНТИ

Период	1 IA	← Група →										13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA	
1	1 H 1.0080																2 He 4.0026	
2	3 Li 6.94	4 Be 9.0122											5 B 10.81	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180
3	11 Na 22.990	12 Mg 24.305	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	← VIII B →		11 IB	12 IIB	13 Al 26.982	14 Si 28.085	15 P 30.974	16 S 32.06	17 Cl 35.45	18 Ar 39.95	
4	19 K 39.098	20 Ca 40.078	21 Sc 44.956	22 Ti 47.867	23 V 50.942	24 Cr 51.996	25 Mn 54.938	26 Fe 55.845	27 Co 58.933	28 Ni 58.693	29 Cu 63.546	30 Zn 65.38	31 Ga 69.723	32 Ge 72.630	33 As 74.922	34 Se 78.971	35 Br 79.904	36 Kr 83.798
5	37 Rb 85.468	38 Sr 87.62	39 Y 88.906	40 Zr 91.224	41 Nb 92.906	42 Mo 95.95	43 Tc (97)	44 Ru 101.07	45 Rh 102.91	46 Pd 106.42	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.71	51 Sb 121.76	52 Te 127.60	53 I 126.90	54 Xe 131.29
6	55 Cs 132.91	56 Ba 137.33	57 La 138.91	72 Hf 178.49	73 Ta 180.95	74 W 183.84	75 Re 186.21	76 Os 190.23	77 Ir 192.22	78 Pt 195.08	79 Au 196.97	80 Hg 200.59	81 Tl 204.38	82 Pb 207.2	83 Bi 208.98	84 Po (209)	85 At (210)	86 Rn (222)
7	87 Fr (223)	88 Ra (226)	89 Ac (227)	104 Rf (267)	105 Db (268)	106 Sg (269)	107 Bh (270)	108 Hs (269)	109 Mt (277)	110 Ds (281)	111 Rg (282)	112 Cn (285)	113 Nh (286)	114 Fl (290)	115 Mc (290)	116 Lv (293)	117 Ts (294)	118 Og (294)

<b>лантаноиди</b>	57 La 138.906	58 Ce 140.12	59 Pr 140.91	60 Nd 144.24	61 Pm (145)	62 Sm 150.36	63 Eu 151.96	64 Gd 157.25	65 Tb 158.93	66 Dy 162.50	67 Ho 164.93	68 Er 167.26	69 Tm 168.93	70 Yb 173.05	71 Lu 174.97
<b>актиноиди</b>	89 Ac (227)	90 Th 232.04	91 Pa 231.04	92 U 238.03	93 Np (237)	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (262)

РЕД НА ЕЛЕКТРООТРИЦАТЕЛНОСТ

Cs < K < Na < Ba < Li < Ca < Mg < Zn < Al < Fe < Cu < Ag < Ni < Si < P < H < I < C < S < Br < Cl < N < O < F

РЕД НА ОТНОСИТЕЛНА АКТИВНОСТ

Li	K	Ba	Ca	Na	Mg	Al	H <sub>2</sub> +2OH <sup>-</sup>	Zn	Fe	Ni	Pb	H <sub>2</sub>	Cu	4OH <sup>-</sup>	Ag	Hg	2H <sub>2</sub> O	2Cl <sup>-</sup>	Au
Li <sup>+</sup>	K <sup>+</sup>	Ba <sup>2+</sup>	Ca <sup>2+</sup>	Na <sup>+</sup>	Mg <sup>2+</sup>	Al <sup>3+</sup>	2H <sub>2</sub> O	Zn <sup>2+</sup>	Fe <sup>2+</sup>	Ni <sup>2+</sup>	Pb <sup>2+</sup>	2H <sup>+</sup>	Cu <sup>2+</sup>	O <sub>2</sub> +2H <sub>2</sub> O	Ag <sup>+</sup>	Hg <sup>2+</sup>	O <sub>2</sub> +4H <sup>+</sup>	Cl <sub>2</sub>	Au <sup>3+</sup>

РАЗТВОРИМОСТ ВЪВ ВОДА НА СОЛИ, ХИДРОКСИДИ И КИСЕЛИНИ

катиони аниони	H <sup>+</sup>	NH <sub>4</sub> <sup>+</sup>	K <sup>+</sup>	Na <sup>+</sup>	Ag <sup>+</sup>	Ba <sup>2+</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Zn <sup>2+</sup>	Cu <sup>2+</sup>	Pb <sup>2+</sup>	Fe <sup>2+</sup>	Fe <sup>3+</sup>	Al <sup>3+</sup>
OH <sup>-</sup>	<del>X</del>	Г			MP		CP	MP	MP	MP	MP	MP	MP	MP
Cl <sup>-</sup>					MP						CP			
Br <sup>-</sup>					MP						CP			
I <sup>-</sup>					MP					HC	MP		HC	
S <sup>2-</sup>	Г				MP				MP	MP	MP	MP	MP	BB
SO <sub>3</sub> <sup>2-</sup>	Г				CP	MP	MP	CP	CP		MP	CP		
SO <sub>4</sub> <sup>2-</sup>					CP	MP	CP				MP			
NO <sub>3</sub> <sup>-</sup>														
PO <sub>4</sub> <sup>3-</sup>					MP	MP	MP	MP	MP	MP	MP	MP	MP	MP
CO <sub>3</sub> <sup>2-</sup>	Г				MP	MP	MP	MP	MP	MP	MP	MP	BB	BB
CrO <sub>4</sub> <sup>2-</sup>					MP	MP			MP	MP	MP	MP	MP	

Г – Газ

CP – Средно разтворимо вещество

MP – Малко разтворимо вещество

BB – Взаимодействия с вода

HC – Не съществуват заедно във воден разтвор