

ПЕРИОДИЧЕСКАЯ СИСТЕМА ЭЛЕМЕНТОВ Д. И. МЕНДЕЛЕЕВА

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 1,008	2 He 4,0026																
2	3 Li 6,941	4 Be 9,0122											5 B 10,811	6 C 12,011	7 N 14,007	8 O 15,999	9 F 18,998	10 Ne 20,180
3	11 Na 22,9897	12 Mg 24,3050										13 Al 26,982	14 Si 28,086	15 P 30,974	16 S 32,066	17 Cl 35,453	18 Ar 39,948	
4	19 K 39,0983	20 Ca 40,078	21 Sc 44,9559	22 Ti 47,867	23 V 50,9415	24 Cr 51,9961	25 Mn 54,9380	26 Fe 55,845	27 Co 58,9332	28 Ni 58,6934	29 Cu 63,546	30 Zn 65,39	31 Ga 69,723	32 Ge 72,61	33 As 74,922	34 Se 78,96	35 Br 79,904	36 Kr 83,80
5	37 Rb 85,4678	38 Sr 87,62	39 Y 88,9059	40 Zr 91,224	41 Nb 92,9064	42 Mo 95,94	43 Tc 98,9063	44 Ru 101,07	45 Rh 102,9055	46 Pd 106,42	47 Ag 107,868	48 Cd 112,411	49 In 114,82	50 Sn 118,71	51 Sb 121,75	52 Te 127,60	53 I 126,905	54 Xe 131,29
6	55 Cs 132,9054	56 Ba 137,327	57 La 138,9055	* 72 Hf 178,49	73 Ta 180,9479	74 W 183,84	75 Re 186,207	76 Os 190,23	77 Ir 192,217	78 Pt 195,078	79 Au 196,966	80 Hg 200,59	81 Tl 204,383	82 Pb 207,2	83 Bi 208,980	84 Po [209]	85 At [210]	86 Rn [222]
7	87 Fr [223]	88 Ra [226]	89 Ac [227]	** 104 Rf [265]	105 Db [268]	106 Sg [271]	107 Bh [270]	108 Hs [277]	109 Mt [276]	110 Ds [281]	111 Rg [280]	112 Cn [285]						

*	58 Ce 140,116	59 Pr 140,90765	60 Nd 144,24	61 Pm [145]	62 Sm 150,36	63 Eu 151,964	64 Gd 157,25	65 Tb 158,92534	66 Dy 162,50	67 Ho 164,93032	68 Er 167,26	69 Tm 168,93421	70 Yb 173,04	71 Lu 174,967
**	90 Th 232,0381	91 Pa 231,03588	92 U 238,0289	93 Np [237]	94 Pu [242]	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]

ЭЛЕКТРОХИМИЧЕСКИЙ РЯД НАПРЯЖЕНИЙ МЕТАЛЛОВ

Li, Rb, K, Cs, Ba, Sr, Ca, Na, Mg, Be, Al, Mn, Zn, Cr, Fe, Cd, Co, Ni, Pb, (H), Bi, Cu, Hg, Ag, Pd, Pt, Au

РАСТВОРИМОСТЬ СОЛЕЙ, КИСЛОТ И ОСНОВАНИЙ В ВОДЕ

анион катион	OH ⁻	NO ₃ ⁻	F ⁻	Cl ⁻	Br ⁻	I ⁻	S ²⁻	SO ₃ ²⁻	SO ₄ ²⁻	CO ₃ ²⁻	SiO ₃ ²⁻	PO ₄ ³⁻	CH ₃ COO ⁻
H ⁺		P	P	P	P	P	P	P	P	P	H	P	P
NH ₄ ⁺	P	P	P	P	P	P	P	P	P	P	–	P	P
K ⁺	P	P	P	P	P	P	P	P	P	P	P	P	P
Na ⁺	P	P	P	P	P	P	P	P	P	P	P	P	P
Ag ⁺	–	P	P	H	H	H	H	H	M	H	–	H	M
Ba ²⁺	P	P	M	P	P	P	P	H	H	H	H	H	P
Ca ²⁺	M	P	H	P	P	P	M	H	M	H	H	H	P
Mg ²⁺	H	P	M	P	P	P	M	H	P	H	H	H	P
Zn ²⁺	H	P	M	P	P	P	H	H	P	H	–	H	P
Cu ²⁺	H	P	P	P	P	–	H	H	P	–	–	H	P
Co ²⁺	H	P	H	P	P	P	H	H	P	H	–	H	P
Hg ²⁺	–	P	–	P	M	H	H	–	P	–	–	H	P
Pb ²⁺	H	P	H	M	M	H	H	H	H	H	H	H	P
Fe ²⁺	H	P	M	P	P	P	H	H	P	H	H	H	P
Fe ³⁺	H	P	H	P	P	–	–	–	P	–	–	H	P
Al ³⁺	H	P	M	P	P	P	–	–	P	–	–	H	M
Cr ³⁺	H	P	M	P	P	P	–	–	P	–	–	H	P
Sn ²⁺	H	P	H	P	P	M	H	–	P	–	–	H	P
Mn ²⁺	H	P	H	P	P	H	H	H	P	H	H	H	P

P – растворимо M – малорастворимо (< 0,1 М) H – нерастворимо (< 10⁻⁴ М) – – не существует или разлагается водой