

CLASSIFICAÇÃO PERIÓDICA DOS ELEMENTOS

1 H 1,0																	2 He 4,0
3 Li 6,9	4 Be 9,0											5 B 10,8	6 C 12,0	7 N 14,0	8 O 16,0	9 F 19,0	10 Ne 20,2
11 Na 23,0	12 Mg 24,3											13 Al 27,0	14 Si 28,1	15 P 31,0	16 S 32,1	17 Cl 35,5	18 Ar 39,9
19 K 39,1	20 Ca 40,1	21 Sc 45,0	22 Ti 47,9	23 V 50,9	24 Cr 52,0	25 Mn 54,9	26 Fe 55,8	27 Co 58,9	28 Ni 58,7	29 Cu 63,5	30 Zn 65,4	31 Ga 69,5	32 Ge 72,5	33 As 75,0	34 Se 79,0	35 Br 80,0	36 Kr 84,0
37 Rb 85,5	38 Sr 87,6	39 Y 89,0	40 Zr 91,0	41 Nb 93,0	42 Mo 96,0	43 Tc (99)	44 Ru 101,0	45 Rh 103,0	46 Pd 106,5	47 Ag 108,0	48 Cd 112,5	49 In 115,0	50 Sn 118,5	51 Sb 122,0	52 Te 127,5	53 I 127,0	54 Xe 131,5
55 Cs 132,9	56 Ba 137,3	57 La 139,0	72 Hf 178,5	73 Ta 181,0	74 W 184,0	75 Re 186,0	76 Os 190,0	77 Ir 192,0	78 Pt 195,0	79 Au 197,0	80 Hg 200,5	81 Tl 204,5	82 Pb 207,0	83 Bi 209,0	84 Po (210)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra (226)	89 Ac (227)	104 Db (261)	105 Jl (262)	106 Rf (263)	107 Bh (262)	108 Hn (265)	109 Mt (266)	110 Uun (269)	111 Uuu (272)	112 Uub (277)	113 Uut (???)	114 Uuq (285)	115 Uup (???)	116 Uuh (289)	117 Uus (???)	118 Uuo (293)

LANTANÍDEOS

58 Ce 140,1	59 Pr 141,0	60 Nd 144,0	61 Pm (147)	62 Sm 150,5	63 Eu 152,0	64 Gd 157,0	65 Tb 159	66 Dy 162,5	67 Ho 165,0	68 Er 167,5	69 Tm 169,0	70 Yb 173,0	71 Lu 175
90 Th 232,0	91 Pa (231)	92 U 238,0	93 Np (237)	94 Pu (242)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (254)	100 Fm (253)	101 Md (256)	102 No (253)	103 Lw (257)

ACTINÍDEOS

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1 H 1,0																	2 He 4,0
3 Li 6,9	4 Be 9,0											5 B 10,8	6 C 12,0	7 N 14,0	8 O 16,0	9 F 19,0	10 Ne 20,2
11 Na 23,0	12 Mg 24,3											13 Al 27,0	14 Si 28,1	15 P 31,0	16 S 32,1	17 Cl 35,5	18 Ar 39,9
19 K 39,1	20 Ca 40,1	21 Sc 45,0	22 Ti 47,9	23 V 50,9	24 Cr 52,0	25 Mn 54,9	26 Fe 55,8	27 Co 58,9	28 Ni 58,7	29 Cu 63,5	30 Zn 65,4	31 Ga 69,5	32 Ge 72,5	33 As 75,0	34 Se 79,0	35 Br 80,0	36 Kr 84,0
37 Rb 85,5	38 Sr 87,6	39 Y 89,0	40 Zr 91,0	41 Nb 93,0	42 Mo 96,0	43 Tc (99)	44 Ru 101,0	45 Rh 103,0	46 Pd 106,5	47 Ag 108,0	48 Cd 112,5	49 In 115,0	50 Sn 118,5	51 Sb 122,0	52 Te 127,5	53 I 127,0	54 Xe 131,5
55 Cs 132,9	56 Ba 137,3	57 La 139,0	72 Hf 178,5	73 Ta 181,0	74 W 184,0	75 Re 186,0	76 Os 190,0	77 Ir 192,0	78 Pt 195,0	79 Au 197,0	80 Hg 200,5	81 Tl 204,5	82 Pb 207,0	83 Bi 209,0	84 Po (210)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra (226)	89 Ac (227)	104 Db (261)	105 Jl (262)	106 Rf (263)	107 Bh (262)	108 Hn (265)	109 Mt (266)	110 Uun (269)	111 Uuu (272)	112 Uub (277)	113 Uut (???)	114 Uuq (285)	115 Uup (???)	116 Uuh (289)	117 Uus (???)	118 Uuo (293)

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58 Ce 140,1	59 Pr 141,0	60 Nd 144,0	61 Pm (147)	62 Sm 150,5	63 Eu 152,0	64 Gd 157,0	65 Tb 159	66 Dy 162,5	67 Ho 165,0	68 Er 167,5	69 Tm 169,0	70 Yb 173,0	71 Lu 175
90 Th 232,0	91 Pa (231)	92 U 238,0	93 Np (237)	94 Pu (242)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (254)	100 Fm (253)	101 Md (256)	102 No (253)	103 Lw (257)

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19 K 39,1	20 Ca 40,1	21 Sc 45,0	22 Ti 47,9	23 V 50,9	24 Cr 52,0	25 Mn 54,9	26 Fe 55,8	27 Co 58,9	28 Ni 58,7	29 Cu 63,5	30 Zn 65,4	31 Ga 69,5	32 Ge 72,5	33 As 75,0	34 Se 79,0	35 Br 80,0	36 Kr 84,0
37 Rb 85,5	38 Sr 87,6	39 Y 89,0	40 Zr 91,0	41 Nb 93,0	42 Mo 96,0	43 Tc (99)	44 Ru 101,0	45 Rh 103,0	46 Pd 106,5	47 Ag 108,0	48 Cd 112,5	49 In 115,0	50 Sn 118,5	51 Sb 122,0	52 Te 127,5	53 I 127,0	54 Xe 131,5
55 Cs 132,9	56 Ba 137,3	57 La 139,0	72 Hf 178,5	73 Ta 181,0	74 W 184,0	75 Re 186,0	76 Os 190,0	77 Ir 192,0	78 Pt 195,0	79 Au 197,0	80 Hg 200,5	81 Tl 204,5	82 Pb 207,0	83 Bi 209,0	84 Po (210)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra (226)	89 Ac (227)	104 Db (261)	105 Jl (262)	106 Rf (263)	107 Bh (262)	108 Hn (265)	109 Mt (266)	110 Uun (269)	111 Uuu (272)	112 Uub (277)	113 Uut (???)	114 Uuq (285)	115 Uup (???)	116 Uuh (289)	117 Uus (???)	118 Uuo (293)

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ACTINÍDEOS

90 Th 232,0	91 Pa (231)	92 U 238,0	93 Np (237)	94 Pu (242)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (254)	100 Fm (253)	101 Md (256)	102 No (253)	103 Lw (257)
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37 Rb 85,5	38 Sr 87,6	39 Y 89,0	40 Zr 91,0	41 Nb 93,0	42 Mo 96,0	43 Tc (99)	44 Ru 101,0	45 Rh 103,0	46 Pd 106,5	47 Ag 108,0	48 Cd 112,5	49 In 115,0	50 Sn 118,5	51 Sb 122,0	52 Te 127,5	53 I 127,0	54 Xe 131,5
55 Cs 132,9	56 Ba 137,3	57 La 139,0	72 Hf 178,5	73 Ta 181,0	74 W 184,0	75 Re 186,0	76 Os 190,0	77 Ir 192,0	78 Pt 195,0	79 Au 197,0	80 Hg 200,5	81 Tl 204,5	82 Pb 207,0	83 Bi 209,0	84 Po (210)	85 At (210)	86 Rn (222)
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ACTINÍDEOS	90 Th 232,0	91 Pa (231)	92 U 238,0	93 Np (237)	94 Pu (242)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (254)	100 Fm (253)	101 Md (256)	102 No (253)	103 Lw (257)