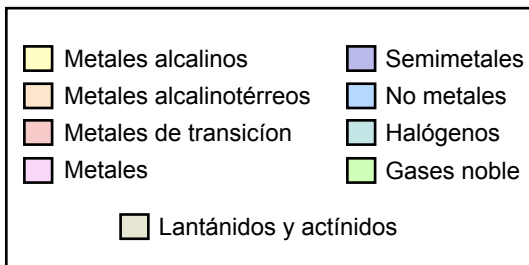
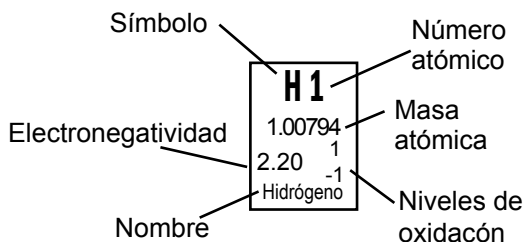


Prof Mokeur TPE

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|---|--|---|---|---|--|---|---|---|---|--|--|--|---|--|---|--|--|--|--|
| 1 IA | | | | | | | | | | | | | | | | | 18 VIIIA | | |
| H 1 1.00794 2.20 ¹ Hidrógeno | | | | | | | | | | | | | | | | | He 2 4.002602 - 0 Helio | | |
| 2 | 2 IIA | | | | | | | | | | | | 13 IIIA | 14 IVA | 15 VA | 16 VIA | 17 VIIA | | |
| Li 3 6.941 0.98 ¹ Lithio | Be 4 9.012182 1.57 ² Berilio | | | | | | | | | | | B 5 10.811 2.04 ³ Boro | C 6 12.017 2.55 ⁴ Carbono | N 7 14.0067 3.04 ^{5,3} Nitrógeno | O 8 15.9994 3.44 ⁻² Oxígeno | F 9 18.998403 3.98 ⁻¹ Flúor | Ne 10 20.1797 - 0 Neón | | |
| 3 | 3 IIIB | | 4 IVB | 5 VB | 6 VIB | 7 VIIB | 8 VIII | | | 9 VIII | 10 VIII | 11 IB | 12 IIB | Al 13 26.981539 1.61 ³ Aluminio | Si 14 28.0855 1.90 ⁴ Silicio | P 15 30.973762 2.19 ^{5,3} Fósforo | S 16 32.065 2.58 ^{6,4,2} Azufre | Cl 17 35.453 3.16 ⁻¹ Cloro | Ar 18 39.948 - 0 Argón |
| 4 | K 19 39.0983 0.82 ¹ Potasio | Ca 20 40.078 1.0 ² Calcio | Sc 21 44.95592 1.36 ³ Escandio | Ti 22 47.867 1.54 ⁴ Titanio | V 23 50.9415 1.63 ⁵ Vanadio | Cr 24 51.9961 1.66 ^{6,3} Cromo | Mn 25 54.938045 1.55 ^{7,4,2} Manganeso | Fe 26 55.845 1.83 ^{3,2} Hierro | Co 27 58.933195 1.88 ^{3,2} Cobalto | Ni 28 58.6934 1.91 ² Níquel | Cu 29 63.546 1.9 ^{2,1} Cobre | Zn 30 65.38 1.65 ² Cinc | Ga 31 69.723 1.81 ³ Galio | Ge 32 72.64 2.01 ^{4,2} Germanio | As 33 74.92160 2.18 ^{5,3} Arsénico | Se 34 78.96 2.55 ^{6,4,2} Selenio | Br 35 79.904 2.98 ⁻¹ Bromo | Kr 36 83.798 3.00 ^{0,2} Kriptón | |
| 5 | Rb 37 85.4678 0.82 ¹ Rubidio | Sr 38 87.62 0.95 ² Estroncio | Y 39 88.90585 1.22 ³ Ytrio | Zr 40 91.224 1.33 ⁴ Circonio | Nb 41 92.90638 1.6 ⁵ Niobio | Mo 42 95.96 2.16 ^{6,4} Molibdeno | Tc 43 98.9062 1.9 ^{7,4} Technecio | Ru 44 101.07 2.2 ^{4,3} Rutenio | Rh 45 102.90550 2.28 ³ Rodio | Pd 46 106.42 2.2 ^{4,2} Paladio | Ag 47 107.8682 1.93 ¹ Plata | Cd 48 112.411 1.69 ² Cadmio | In 49 114.818 1.78 ³ Indio | Sn 50 118.710 1.96 ^{4,2} Estaño | Sb 51 121.760 2.05 ^{5,3} Antimonio | Te 52 127.60 2.1 ^{6,4,2} Teluro | I 53 126.90447 2.7 ⁻¹ Yodo | Xe 54 131.293 2.6 ^{0,6} Xenón | |
| 6 | Cs 55 132.905445 0.79 ¹ Cesio | Ba 56 137.327 0.89 ² Bario | La 57 138.90547 1.1 ³ Lantano | Hf 72 178.49 1.3 ⁴ Hafnio | Ta 73 180.94788 1.5 ⁵ Tántalo | W 74 183.84 2.36 ^{6,4} Wolframio | Re 75 186.207 1.9 ⁴ Rhenio | Os 76 190.23 2.2 ⁴ Osmio | Ir 77 192.217 2.2 ^{4,3} Iridio | Pt 78 195.084 2.28 ⁴⁺ Platino | Au 79 196.96657 2.54 ³ Oro | Hg 80 200.59 2.0 ^{2,1} Mercurio | Tl 81 204.3833 1.62 ^{3,1} Tlacio | Pb 82 207.2 2.33 ^{4,2} Plomo | Bi 83 208.98040 2.02 ³ Bismuto | Po 84 208.9824 2.0 ^{4,2} Polonio | At 85 209.9871 2.2 ⁻¹ Astatio | Rn 86 222.0176 2.2 ⁰ Radón | |
| 7 | Fr 87 223.0197 0.7 ¹ Francio | Ra 88 226.0254 0.9 ² Radio | Ac 89 227.0278 1.1 ³ Actinio | Rf 104 261.11 - - Rutherfordio | Db 105 262.11 - - Dubnio | Sg 106 263.12 - - Seaborgio | Bh 107 262.12 - - Bohrio | Hs 108 264 - - Hassio | Mt 109 266.1378 - - Meitnerio | Ds 110 269 - - Darmstadio | Rg 111 272 - - Roentgenio | Cn 112 277 - - Copernicio | Uut 113 284 - - Ununtrium | Uuq 114 289 - - Ununquadium | Uup 115 288 - - Ununpentium | Uuh 116 292 - - Ununhexium | Uus 117 293 - - Ununseptium | Uuo 118 294 - - Ununoctium | |



Lantánidos

6

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|---|---|--|---|--|--|---|---|---|--|---|---|--|--|
| Ce 58 140.116 1.12 ^{4,3} Cerio | Pr 59 140.90765 1.13 ³ Praseodimio | Nd 60 144.242 1.14 ³ Neodimio | Pm 61 144.9127 1.13 ³ Prometio | Sm 62 150.36 1.17 ³ Samario | Eu 63 151.964 1.2 ^{3,2} Europio | Gd 64 157.25 1.2 ³ Gadolinio | Tb 65 158.92535 1.1 ³ Terbio | Dy 66 162.500 1.22 ³ Disprosio | Ho 67 164.93032 1.23 ³ Holmio | Er 68 167.259 1.24 ³ Erbio | Tm 69 168.93421 1.25 ³ Tulio | Yb 70 173.054 1.1 ³ Iterbio | Lu 71 174.9668 1.27 ³ Lutecio |
|---|---|--|---|--|--|---|---|---|--|---|---|--|--|

Actínidos

7

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|--|--|---|---|---|---|---|--|--|--|---|---|--|--|
| Th 90 232.03806 1.3 ⁴ Torio | Pa 91 231.03588 1.5 ⁵ Protactinio | U 92 238.02891 1.38 ⁶ Uranio | Np 93 237.0482 1.36 ⁵ Neptunio | Pu 94 244.0642 1.28 ⁴ Plutonio | Am 95 243.0614 1.13 ³ Americio | Cm 96 247 1.28 ³ Curio | Bk 97 247.0703 1.3 ³ Berkelio | Cf 98 251.0796 1.3 ³ Californio | Es 99 252.03 1.3 ³ Einsteinio | Fm 100 257.0951 1.3 ³ Fermio | Md 101 258.01 1.3 ³ Mendelevio | No 102 259.1009 1.3 ³ Nobelio | Lr 103 260.1053 1.3 ³ Lawrencio |
|--|--|---|---|---|---|---|--|--|--|---|---|--|--|