

TABLA PERIÓDICA



1.00794 1 H Hidrógeno 1s ¹																	4.002602 2 He Helio 1s ²																																																																				
6.941 3 Li Litio 1s ² 2s ¹	9.012182 4 Be Berilio 1s ² 2s ²																																																																																				
22.98976 11 Na Sodio [Ne] 3s ¹	24.3050 12 Mg Magnesio [Ne] 3s ²																																																																																				
39.0983 19 K Potasio [Ar] 4s ¹	40.078 20 Ca Calcio [Ar] 4s ²	44.95591 21 Sc Escandio [Ar] 3d ¹ 4s ²	47.867 22 Ti Titanio [Ar] 3d ² 4s ²	50.9415 23 V Vanadio [Ar] 3d ³ 4s ²	51.9962 24 Cr Cromo [Ar] 3d ⁵ 4s ¹	54.93804 25 Mn Manganeso [Ar] 3d ⁵ 4s ²	55.845 26 Fe Hierro [Ar] 3d ⁶ 4s ²	58.93319 27 Co Cobalto [Ar] 3d ⁷ 4s ²	58.6934 28 Ni Níquel [Ar] 3d ⁸ 4s ²	63.546 29 Cu Cobre [Ar] 3d ¹⁰ 4s ¹	65.38 30 Zn Zinc [Ar] 3d ¹⁰ 4s ²	69.723 31 Ga Galio [Ar] 3d ¹⁰ 4s ² 4p ¹	72.64 32 Ge Germanio [Ar] 3d ¹⁰ 4s ² 4p ²	74.92160 33 As Arsénico [Ar] 3d ¹⁰ 4s ² 4p ³	78.96 34 Se Selenio [Ar] 3d ¹⁰ 4s ² 4p ⁴	79.904 35 Br Bromo [Ar] 3d ¹⁰ 4s ² 4p ⁵	83.798 36 Kr Kriptón [Ar] 3d ¹⁰ 4s ² 4p ⁶	85.4678 37 Rb Rubidio [Kr] 5s ¹	87.62 38 Sr Estroncio [Kr] 5s ²	88.90585 39 Y Itrio [Kr] 4d ¹ 5s ²	91.224 40 Zr Circonio [Kr] 4d ² 5s ²	92.90638 41 Nb Niobio [Kr] 4d ⁴ 5s ¹	95.96 42 Mo Molibdeno [Kr] 4d ⁵ 5s ¹	(98) 43 Tc Tecnecio [Kr] 4d ⁵ 5s ²	101.07 44 Ru Rutenio [Kr] 4d ⁷ 5s ¹	102.9055 45 Rh Rodio [Kr] 4d ⁸ 5s ¹	106.42 46 Pd Paladio [Kr] 4d ¹⁰	107.8682 47 Ag Plata [Kr] 4d ¹⁰ 5s ¹	118.710 48 Cd Cadmio [Kr] 4d ¹⁰ 5s ²	127.60 49 In Indio [Kr] 4d ¹⁰ 5s ² 5p ¹	127.60 50 Sn Estañio [Kr] 4d ¹⁰ 5s ² 5p ²	127.60 51 Sb Antimonio [Kr] 4d ¹⁰ 5s ² 5p ³	127.60 52 Te Telurio [Kr] 4d ¹⁰ 5s ² 5p ⁴	127.60 53 I Yodo [Kr] 4d ¹⁰ 5s ² 5p ⁵	131.293 54 Xe Xenón [Kr] 4d ¹⁰ 5s ² 5p ⁶	132.9054 55 Cs Francio [Xe] 6s ¹	137.327 56 Ba Bario [Xe] 6s ²	140.116 57 La Lantano [Xe] 5d ¹ 6s ²	140.9076 58 Ce Cerio [Xe] 4f ¹ 6s ²	144.242 59 Pr Praseodimio [Xe] 4f ³ 6s ²	147.07 60 Nd Neodimio [Xe] 4f ⁴ 6s ²	150.36 61 Pm Prometio [Xe] 4f ⁵ 6s ²	151.964 62 Sm Samario [Xe] 4f ⁶ 6s ²	154.923 63 Eu Europio [Xe] 4f ⁷ 6s ²	157.25 64 Gd Gadolinio [Xe] 4f ⁷ 5d ¹ 6s ²	160.927 65 Tb Terbio [Xe] 4f ⁹ 6s ²	162.50 66 Dy Disprosio [Xe] 4f ¹⁰ 6s ²	164.9303 67 Ho Holmio [Xe] 4f ¹¹ 6s ²	167.259 68 Er Erbio [Xe] 4f ¹² 6s ²	170.266 69 Tm Tulio [Xe] 4f ¹³ 6s ²	173.054 70 Yb Iterbio [Xe] 4f ¹⁴ 6s ²	175.054 71 Lu Lutecio [Xe] 4f ¹⁴ 5d ¹ 6s ²	177.09 72 Hf Hafnio [Xe] 4f ¹⁴ 5d ² 6s ²	178.49 73 Ta Tantalio [Xe] 4f ¹⁴ 5d ³ 6s ²	180.947 74 W Wolframio [Xe] 4f ¹⁴ 5d ⁴ 6s ²	183.84 75 Re Renio [Xe] 4f ¹⁴ 5d ⁵ 6s ²	186.207 76 Os Osmio [Xe] 4f ¹⁴ 5d ⁶ 6s ²	190.23 77 Ir Iridio [Xe] 4f ¹⁴ 5d ⁷ 6s ²	192.217 78 Pt Platino [Xe] 4f ¹⁴ 5d ⁹ 6s ¹	195.084 79 Au Oro [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹	196.9665 80 Hg Mercurio [Xe] 4f ¹⁴ 5d ¹⁰ 6s ²	200.59 81 Tl Talio [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹	204.3823 82 Pb Plomo [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ²	207.2 83 Bi Bismuto [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³	208.9804 84 Po Polonio [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴	(210) 85 At Astato [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵	(210) 86 Rn Radón [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶	(223) 87 Fr Francio [Rn] 7s ¹	(226) 88 Ra Radio [Rn] 7s ²	(262) 103 Lr Lawrencio [Og] 5f ¹⁴ 6d ¹ 7s ²	(261) 104 Rf Rutherfordio [Og] 5f ¹⁴ 6d ² 7s ²	(262) 105 Db Dubnio [Og] 5f ¹⁴ 6d ³ 7s ²	(266) 106 Sg Seaborgio [Og] 5f ¹⁴ 6d ⁴ 7s ²	(264) 107 Bh Bohrio [Og] 5f ¹⁴ 6d ⁵ 7s ²	(277) 108 Hs Hassium [Og] 5f ¹⁴ 6d ⁶ 7s ²	(268) 109 Mt Meitnerio [Og] 5f ¹⁴ 6d ⁷ 7s ²	(271) 110 Ds Darmstadtio [Og] 5f ¹⁴ 6d ⁸ 7s ²	(272) 111 Rg Roentgenio [Og] 5f ¹⁴ 6d ⁹ 7s ²	(285) 112 Cn Copernicio [Og] 5f ¹⁴ 6d ¹⁰ 7s ²	(284) 113 Nh Nihonio [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹	(289) 114 Fl Flerovio [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ²	(288) 115 Mc Moscovio [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ³	(292) 116 Lv Livermorio [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴	(294) 117 Ts Teneso [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵	(294) 118 Og Oganesson [Og] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶



138.9054 57 La Lantano	140.116 58 Ce Cerio	140.9076 59 Pr Praseodimio	144.242 60 Nd Neodimio	150.36 61 Pm Prometio	151.964 62 Sm Samario	157.25 63 Eu Europio	158.9253 64 Gd Gadolinio	162.50 65 Tb Terbio	164.9303 66 Dy Disprosio	167.259 67 Ho Holmio	168.9342 68 Er Erbio	173.054 69 Tm Tulio	173.054 70 Yb Iterbio
(227) 89 Ac Actinio	(232) 90 Th Torio	(231) 91 Pa Protactinio	(238) 92 U Uranio	(237) 93 Np Neptunio	(244) 94 Pu Plutonio	(243) 95 Am Americio	(247) 96 Cm Curio	(247) 97 Bk Berkelio	(251) 98 Cf Californio	(252) 99 Es Einsteinio	(257) 100 Fm Fermio	(258) 101 Md Mendelevio	(259) 102 No Nobelio

La estructura de la tabla periódica también nos puede servir para determinar cuál es la configuración electrónica de un átomo de una manera más sencilla, pues está dividida de la siguiente forma:

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³	28d ²	28d ¹	29s ²	29p ⁶	29d ⁵	29d ⁴	29d ³	29d ²	29d ¹	30s ²	30p ⁶	30d ⁵	30d ⁴	30d ³	30d ²	30d ¹	31s ²	31p ⁶	31d ⁵	31d ⁴	31d ³	31d ²	31d ¹	32s ²	32p ⁶	32d ⁵	32d ⁴	32d ³	32d ²	32d ¹	33s ²	33p ⁶	33d ⁵	33d ⁴	33d ³	33d ²	33d ¹	34s ²	34p ⁶	34d ⁵	34d ⁴	34d ³	34d ²	34d ¹	35s ²	35p ⁶	35d ⁵	35d ⁴	35d ³	35d ²	35d ¹	36s ²	36p ⁶	36d ⁵	36d ⁴	36d ³	36d ²	36d ¹	37s ²	37p ⁶	37d ⁵	37d ⁴	37d ³	37d ²	37d ¹	38s ²	38p ⁶	38d ⁵	38d ⁴	38d ³	38d ²	38d ¹	39s ²	39p ⁶	39d ⁵	39d ⁴	39d ³	39d ²	39d ¹	40s ²	40p ⁶	40d ⁵	40d ⁴	40d ³	40d ²	40d ¹	41s ²	41p ⁶	41d ⁵	41d ⁴	41d ³	41d ²	41d ¹	42s ²	42p ⁶	42d ⁵	42d ⁴	42d ³	42d ²	42d ¹	43s ²	43p ⁶	43d ⁵	43d ⁴	43d ³	43d ²	43d ¹	44s ²	44p ⁶	44d ⁵	44d ⁴	44d ³	44d ²	44d ¹	45s ²	45p ⁶	45d ⁵	45d ⁴	45d ³	45d ²	45d ¹	46s ²	46p ⁶	46d ⁵	46d ⁴	46d ³	46d ²	46d ¹	47s ²	47p ⁶	47d ⁵	47d ⁴	47d ³	47d ²	47d ¹	48s ²	48p ⁶	48d ⁵	48d ⁴	48d ³	48d ²	48d ¹	49s ²	49p ⁶	49d ⁵	49d ⁴	49d ³	49d ²	49d ¹	50s ²	50p ⁶	50d ⁵	50d ⁴	50d ³	50d ²	50d ¹	51s ²	51p ⁶	51d ⁵	51d ⁴	51d ³	51d ²	51d ¹	52s ²	52p ⁶	52d 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²	99d ¹	100s ²	100p ⁶	100d ⁵	100d ⁴	100d ³	100d ²	100d ¹	101s ²	101p ⁶	101d ⁵	101d ⁴	101d ³	101d ²	101d ¹	102s ²	102p ⁶	102d ⁵	102d ⁴	102d ³	102d ²	102d ¹	103s ²	103p ⁶	103d ⁵	103d ⁴	103d ³	103d ²	103d ¹	104s ²	104p ⁶	104d ⁵	104d ⁴	104d ³	104d ²	104d ¹	105s ²	105p ⁶	105d ⁵	105d ⁴	105d ³	105d ²	105d ¹	106s ²	106p ⁶	106d ⁵	106d ⁴	106d ³	106d ²	106d ¹	107s ²	107p ⁶	107d ⁵	107d ⁴	107d ³	107d ²	107d ¹	108s ²	108p ⁶	108d ⁵	108d ⁴	108d ³	108d ²	108d ¹	109s ²	109p ⁶	109d ⁵	109d ⁴	109d ³	109d ²	109d ¹	110s ²	110p ⁶	110d ⁵	110d ⁴	110d ³	110d ²	110d ¹	111s ²	111p ⁶	111d ⁵	111d ⁴	111d ³	111d ²	111d ¹	112s ²	112p ⁶	112d ⁵	112d ⁴	112d ³	112d ²	112d ¹	113s ²	113p ⁶	113d ⁵	113d ⁴	113d ³	113d ²	113d ¹	114s ²	114p ⁶	114d ⁵	114d ⁴	114d ³	114d ²	114d ¹	115s ²	115p ⁶	115d ⁵	115d ⁴	115d ³	115d ²	115d ¹	116s ²	116p ⁶	116d ⁵	116d ⁴	116d ³	116d ²	116d ¹	117s ²	117p ⁶	117d ⁵	117d ⁴	117d ³	117d ²	117d ¹	118s ²	118p ⁶	118d ⁵	118d ⁴	118d ³	118d ²	118d ¹	119s ²	119p ⁶	119d ⁵	119d ⁴	119d ³	119d ²	119d ¹	120s ²	120p ⁶	120d ⁵	120d ⁴	120d ³	120d ²	120d ¹	121s ²	121p ⁶	121d ⁵	121d ⁴	121d ³	121d ²	121d ¹	122s ²	122p ⁶	122d ⁵	122d ⁴	122d ³	122d ²	122d ¹	123s ²	123p ⁶	123d ⁵	123d ⁴	123d ³	123d ²	123d ¹	124s ²	124p ⁶	124d ⁵	124d ⁴	124d ³	124d ²	124d ¹	125s ²

EVOLUCIÓN DE LA CLASIFICACIÓN DE LOS ELEMENTOS QUÍMICOS

La triada de Dobereiner



2

3

H	F	Cl	Ca	Br	Pd	I	Pt
Li	Na	K	Ca	Rb	Ag	Cs	Os
Br	Mg	Ca	Zn	Sr	Cd	Ba	Hg
B	Al	Cr	V	La	U	Ta	Tl
C	Si	Ti	In	Zr	Sb	W	Pb
N	P	Mn	As	Mo	Sn	Nb	Bi
O	S	Fe	Sc	Ru	Te	Au	Tl

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