

Tableau périodique des éléments

1										2												
1 H Hydrogène 1,008 1s ¹ -1 +1																		2 He Hélium 4,003 1s ² 0				
3 Li Lithium 6,94 1s ² 2s ¹ +1	4 Be Béryllium 9,012 1s ² 2s ² +2																13 B Bore 10,81 1s ² 2s ² 2p ¹ +3	14 C Carbone 12,01 1s ² 2s ² 2p ² -4 +2 +4	15 N Azote 14,01 1s ² 2s ² 2p ³ -3 +1 +2 +3 +4 +5	16 O Oxygène 16,00 1s ² 2s ² 2p ⁴ -2 -1 +2	17 F Fluor 19,00 1s ² 2s ² 2p ⁵ -1	18 Ne Néon 20,18 1s ² 2s ² 2p ⁶ 0
11 Na Sodium 22,99 [Ne] 3s ¹ +1	12 Mg Magnésium 24,31 [Ne] 3s ² +2																31 Al Aluminium 26,98 [Ne] 3s ² 3p ¹ +3	32 Si Silicium 28,09 [Ne] 3s ² 3p ² -4 +4	33 P Phosphore 30,97 [Ne] 3s ² 3p ³ -3 +3 +4 +5	34 S Soufre 32,06 [Ne] 3s ² 3p ⁴ -2 +2 +4 +6	35 Cl Chlore 35,45 [Ne] 3s ² 3p ⁵ -1 +1 +3 +5 +7	36 Ar Argon 39,95 [Ne] 3s ² 3p ⁶ 0
19 K Potassium 39,10 [Ar] 4s ¹ +1	20 Ca Calcium 40,08 [Ar] 4s ² +2	21 Sc Scandium 44,96 [Ar] 4s ² 3d ¹ +3	22 Ti Titane 47,87 [Ar] 4s ² 3d ² +2 +3 +4	23 V Vanadium 50,94 [Ar] 4s ² 3d ³ +2 +3 +4 +5	24 Cr Chrome 52,00 [Ar] 4s ¹ 3d ⁵ +2 +3 +6	25 Mn Manganèse 54,94 [Ar] 4s ² 3d ⁵ +2 +3 +4 +6 +7	26 Fe Fer 55,85 [Ar] 4s ² 3d ⁶ +2 +3	27 Co Cobalt 58,93 [Ar] 4s ² 3d ⁷ +2 +3	28 Ni Nickel 58,69 [Ar] 4s ² 3d ⁸ +2 +3	29 Cu Cuivre 63,55 [Ar] 4s ¹ 3d ¹⁰ +1 +2	30 Zn Zinc 65,38 [Ar] 4s ² 3d ¹⁰ +2	31 Ga Gallium 69,72 [Ar] 4s ² 3d ¹⁰ 4p ¹ +1 +2 +3	32 Ge Germanium 72,63 [Ar] 4s ² 3d ¹⁰ 4p ² +2 +4	33 As Arsenic 74,92 [Ar] 4s ² 3d ¹⁰ 4p ³ -3 +3 +5	34 Se Sélénium 78,96 [Ar] 4s ² 3d ¹⁰ 4p ⁴ -2 +2 +4 +6	35 Br Brome 79,90 [Ar] 4s ² 3d ¹⁰ 4p ⁵ -1 +1 +3 +5 +7	36 Kr Krypton 83,80 [Ar] 4s ² 3d ¹⁰ 4p ⁶ 0					
37 Rb Rubidium 85,47 [Kr] 5s ¹ +1	38 Sr Strontium 87,62 [Kr] 5s ² +2	39 Y Yttrium 88,91 [Kr] 5s ² 4d ¹ +2 +3	40 Zr Zirconium 91,22 [Kr] 5s ² 4d ² +4	41 Nb Niobium 92,91 [Kr] 5s ¹ 4d ⁴ +3 +5	42 Mo Molybdène 95,96 [Kr] 5s ¹ 4d ⁵ +2 +3 +4 +5 +6	43 Tc Technétium [98] [Kr] 5s ² 4d ⁵ +7	44 Ru Ruthénium 101,07 [Kr] 5s ¹ 4d ⁷ +2 +3 +4 +6 +8	45 Rh Rhodium 102,91 [Kr] 5s ¹ 4d ⁸ +2 +3 +4	46 Pd Palladium 106,42 [Kr] 5s ⁰ 4d ¹⁰ +2 +4	47 Ag Argent 107,87 [Kr] 5s ¹ 4d ¹⁰ +1	48 Cd Cadmium 112,41 [Kr] 5s ² 4d ¹⁰ +2	49 In Indium 114,82 [Kr] 5s ² 4d ¹⁰ 5p ¹ +1 +2 +3	50 Sn Etain 118,71 [Kr] 5s ² 4d ¹⁰ 5p ² +2 +4	51 Sb Antimoine 121,76 [Kr] 5s ² 4d ¹⁰ 5p ³ -3 +3 +5	52 Te Tellure 127,60 [Kr] 5s ² 4d ¹⁰ 5p ⁴ -2 +2 +4 +6	53 I Iode 126,90 [Kr] 5s ² 4d ¹⁰ 5p ⁵ -1 +1 +3 +5 +7	54 Xe Xénon 131,29 [Kr] 5s ² 4d ¹⁰ 5p ⁶ 0					
55 Cs Césium 132,91 [Xe] 6s ¹ +1	56 Ba Baryum 137,33 [Xe] 6s ² +2	57 à 71	72 Hf Hafnium 178,49 [Xe] 6s ² 4f ¹⁴ 5d ² +4	73 Ta Tantale 180,95 [Xe] 6s ² 4f ¹⁴ 5d ³ +5	74 W Tungstène 183,84 [Xe] 6s ² 4f ¹⁴ 5d ⁴ +2 +3 +4 +5 +6	75 Re Rhénium 186,21 [Xe] 6s ² 4f ¹⁴ 5d ⁵ +2 +3 +4 +6 +7	76 Os Osmium 190,23 [Xe] 6s ² 4f ¹⁴ 5d ⁶ +2 +3 +4 +6 +8	77 Ir Iridium 192,22 [Xe] 6s ² 4f ¹⁴ 5d ⁷ +2 +3 +4 +6	78 Pt Platine 195,08 [Xe] 6s ¹ 4f ¹⁴ 5d ⁹ +2 +4	79 Au Or 196,97 [Xe] 6s ¹ 4f ¹⁴ 5d ¹⁰ +1 +3	80 Hg Mercure 200,59 [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ +1 +2	81 Tl Thallium 204,38 [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ¹ +1 +3	82 Pb Plomb 207,2 [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ² +2 +5	83 Bi Bismuth 208,98 [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ³ +3 +5	84 Po Polonium [209] [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁴ +2 +4	85 At Astate [210] [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁵ -1 +1 +3 +5 +7	86 Rn Radon [222] [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁶ 0					
87 Fr Francium [223] [Rn] 7s ¹ +1	88 Ra Radium [226] [Rn] 7s ² +2	89 à 103	104 Rf Rutherfordium [267] [Rn] 7s ² 5f ¹⁴ 6d ² +4	105 Db Dubnium [268] [Rn] 7s ² 5f ¹⁴ 6d ³ +5	106 Sg Seaborgium [271] [Rn] 7s ² 5f ¹⁴ 6d ⁴ +6	107 Bh Bohrium [272] [Rn] 7s ² 5f ¹⁴ 6d ⁵ +7	108 Hs Hassium [277] [Rn] 7s ² 5f ¹⁴ 6d ⁶ +8	109 Mt Meitnerium [276] [Rn] 7s ² 5f ¹⁴ 6d ⁷ +9	110 Ds Darmstadtium [281] [Rn] 7s ² 5f ¹⁴ 6d ⁸ +10	111 Rg Roentgenium [280] [Rn] 7s ² 5f ¹⁴ 6d ⁹ +11	112 Cn Copernicium [285] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ +12	113 Nh Nihonium [286] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ¹ +1 +3	114 Fl Flérovium [289] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ² +2 +4	115 Mc Moscovium [288] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ³ +3 +5	116 Lv Livermorium [293] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁴ +2 +4	117 Ts Tennessee [294] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁵ -1 +1 +3 +5 +7	118 Og Oganesson [294] [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁶ 0					

Numéro atomique — 80

Nom de l'élément — **Hg** — Mercure

Masse atomique, basée sur ¹²C — 200,59

[] : nombre de masse de l'isotope le plus stable * — 10,43

Energie de première ionisation (eV) — 10,43

Symbole de l'élément (en gris : aucun isotope stable) — Hg

Électronégativité (échelle de Pauling) — 1,9

Configuration électronique (en rouge : exception à la règle de Klechkowski) — [Xe] 6s² 4f¹⁴ 5d¹⁰ 6s¹

Principaux nombres d'oxydation (le plus fréquent en gras) — +1 +2

* Pure Appl. Chem., Vol. 78, No. 11, pp. 2051–2066, 2006. Actualisé en 2016 selon recommandations de l'Union Internationale de Chimie Pure et Appliquée.

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Lanthanides 6		57 La Lanthane 138,91 [Xe] 6s ² 5d ¹ +3	58 Ce Cérium 140,12 [Xe] 6s ² 4f ¹ 5d ¹ +3 +4	59 Pr Praséodyme 140,91 [Xe] 6s ² 4f ³ +3 +4	60 Nd Néodyme 144,24 [Xe] 6s ² 4f ⁴ +3	61 Pm Prométhium [145] [Xe] 6s ² 4f ⁵ +3	62 Sm Samarium 150,36 [Xe] 6s ² 4f ⁶ +2 +3	63 Eu Europium 151,96 [Xe] 6s ² 4f ⁷ +2 +3	64 Gd Gadolinium 157,25 [Xe] 6s ² 4f ⁷ 5d ¹ +3	65 Tb Terbium 158,93 [Xe] 6s ² 4f ⁹ +3 +4	66 Dy Dysprosium 162,50 [Xe] 6s ² 4f ¹⁰ +3	67 Ho Holmium 164,93 [Xe] 6s ² 4f ¹¹ +3	68 Er Erbium 167,26 [Xe] 6s ² 4f ¹² +3	69 Tm Thulium 168,93 [Xe] 6s ² 4f ¹³ +2 +3	70 Yb Ytterbium 173,05 [Xe] 6s ² 4f ¹⁴ +2 +3	71 Lu Lutétiun 174,97 [Xe] 6s ² 4f ¹⁴ 5d ¹ +3
Actinides 7		89 Ac Actinium [227] [Rn] 7s ² 6d ¹ +3	90 Th Thorium 232,04 [Rn] 7s ² 6d ² +4	91 Pa Protactinium 231,04 [Rn] 7s ² 5f ² 6d ¹ +4 +5	92 U Uranium 238,03 [Rn] 7s ² 5f ³ 6d ¹ +3 +4 +5 +6	93 Np Neptunium [237] [Rn] 7s ² 5f ⁴ 6d ¹ +3 +4 +5 +6	94 Pu Plutonium [244] [Rn] 7s ² 5f ⁶ +3 +4 +5 +6	95 Am Américium [243] [Rn] 7s ² 5f ⁷ +3 +4 +5 +6	96 Cm Curium [247] [Rn] 7s ² 5f ⁸ 6d ¹ +3	97 Bk Berkélium [247] [Rn] 7s ² 5f ⁹ +3 +4	98 Cf Californium [251] [Rn] 7s ² 5f ¹⁰ +3	99 Es Einsteinium [252] [Rn] 7s ² 5f ¹¹ +3	100 Fm Fermium [257] [Rn] 7s ² 5f ¹² +3	101 Md Mendélévium [258] [Rn] 7s ² 5f ¹³ +3	102 No Nobélium [259] [Rn] 7s ² 5f ¹⁴ +3	103 Lr Lawrencium [262] [Rn] 7s ² 5f ¹⁴ 6d ¹ +3