

# Classification périodique des éléments

Principales colonnes													Principales colonnes						
Couche	I	II											III	IV	V	VI	VII	VIII	
1	${}^1_1\text{H}$ hydrogène 1																		${}^4_2\text{He}$ hélium 4
2	${}^7_3\text{Li}$ lithium 7	${}^9_4\text{Be}$ béryllium 9											${}^{11}_5\text{B}$ bore 11	${}^{12}_6\text{C}$ carbone 12	${}^{14}_7\text{N}$ azote 14	${}^{16}_8\text{O}$ oxygène 16	${}^{19}_9\text{F}$ fluor 19	${}^{20}_{10}\text{Ne}$ néon 20	
3	${}^{23}_{11}\text{Na}$ sodium 23	${}^{24}_{12}\text{Mg}$ magnésium 24,3											${}^{27}_{13}\text{Al}$ aluminium 27	${}^{28}_{14}\text{Si}$ silicium 28	${}^{31}_{15}\text{P}$ phosphore 31	${}^{32}_{16}\text{S}$ soufre 32	${}^{35}_{17}\text{Cl}$ chlore 35,5	${}^{40}_{18}\text{Ar}$ argon 40	
4	${}^{39}_{19}\text{K}$ potassium 39	${}^{40}_{20}\text{Ca}$ Calcium 40	${}^{45}_{21}\text{Sc}$ scandium 45	${}^{48}_{22}\text{Ti}$ titane 48	${}^{51}_{23}\text{V}$ vanadium 51	${}^{52}_{24}\text{Cr}$ chrome 52	${}^{55}_{25}\text{Mn}$ manganèse 55	${}^{56}_{26}\text{Fe}$ fer 56	${}^{59}_{27}\text{Co}$ cobalt 59	${}^{58}_{28}\text{Ni}$ nickel 58,7	${}^{63}_{29}\text{Cu}$ cuivre 63,5	${}^{64}_{30}\text{Zn}$ zinc 65,4	${}^{69}_{31}\text{Ga}$ gallium 69,7	${}^{74}_{32}\text{Ge}$ germanium 72,6	${}^{75}_{33}\text{As}$ arsenic 74,9	${}^{80}_{34}\text{Se}$ sélénium 79	${}^{79}_{35}\text{Br}$ brome 80	${}^{84}_{36}\text{Kr}$ krypton 84	
5	${}^{85}_{37}\text{Rb}$ rubidium 85,5	${}^{88}_{38}\text{Sr}$ strontium 87,6	${}^{89}_{39}\text{Y}$ yttrium 88,9	${}^{90}_{40}\text{Zr}$ zirconium 91,2	${}^{93}_{41}\text{Nb}$ niobium 92,9	${}^{98}_{42}\text{Mo}$ molybdène 96	${}^{98}_{43}\text{Tc}$ technétium [98]	${}^{102}_{44}\text{Ru}$ ruthénium 101	${}^{103}_{45}\text{Rh}$ rhodium 103	${}^{106}_{46}\text{Pd}$ palladium 106,4	${}^{107}_{47}\text{Ag}$ argent 108	${}^{114}_{48}\text{Cd}$ cadmium 112,4	${}^{115}_{49}\text{In}$ indium 114,8	${}^{120}_{50}\text{Sn}$ étain 118,7	${}^{121}_{51}\text{Sb}$ antimoine 121,7	${}^{128}_{52}\text{Te}$ tellure 127,6	${}^{127}_{53}\text{I}$ iode 127	${}^{129}_{54}\text{Xe}$ xénon 131,3	
6	${}^{133}_{55}\text{Cs}$ césium 133	${}^{138}_{56}\text{Ba}$ baryum 137,3	${}^{175}_{71}\text{Lu}$ lutécium 175	${}^{180}_{72}\text{Hf}$ hafnium 178,5	${}^{181}_{73}\text{Ta}$ tantale 181	${}^{184}_{74}\text{W}$ tungstène 183,8	${}^{185}_{75}\text{Re}$ rhénium 186,2	${}^{192}_{76}\text{Os}$ osmium 190,2	${}^{193}_{77}\text{Ir}$ iridium 192,2	${}^{195}_{78}\text{Pt}$ platine 195,1	${}^{197}_{79}\text{Au}$ or 197	${}^{202}_{80}\text{Hg}$ mercure 200,6	${}^{205}_{81}\text{Tl}$ thallium 204,4	${}^{208}_{82}\text{Pb}$ plomb 207,2	${}^{209}_{83}\text{Bi}$ bismuth 209	${}^{210}_{84}\text{Po}$ polonium [209]	${}^{218}_{85}\text{At}$ astate [210]	${}^{222}_{86}\text{Rn}$ radon [222]	
7	${}^{223}_{87}\text{Fr}$ francium [223]	${}^{226}_{88}\text{Ra}$ radium [226]	${}^{103}\text{Lr}$ lawrencium [262]	${}^{104}\text{Rf}$ rutherfordium [261]	${}^{105}\text{Db}$ dubnium [262]	${}^{106}\text{Sg}$ seaborgium [266]	${}^{107}\text{Bh}$ bohrium [264]	${}^{108}\text{Hs}$ hassium [269]	${}^{109}\text{Mt}$ meitnerium [268]	${}^{110}\text{Ds}$ darmstadtium [268]									

A : Nombre de masse de l'isotope le plus abondant

Z : Numéro atomique



M : Masse molaire atomique (en g/mol) du mélange isotopique naturel

57 à 71  
lanthanides

89 à 103  
actinides

${}^{139}_{57}\text{La}$ lanthane 138,91	${}^{140}_{58}\text{Ce}$ cérium 140	${}^{141}_{59}\text{Pr}$ praséodyme 141	${}^{144}_{60}\text{Nd}$ néodyme 144,2	${}^{61}\text{Pm}$ prométhium [145]	${}^{152}_{62}\text{Sm}$ samarium 150,4	${}^{153}_{63}\text{Eu}$ europium 152	${}^{158}_{64}\text{Gd}$ gadolinium 157,3	${}^{159}_{65}\text{Tb}$ terbium 159	${}^{162}_{66}\text{Dy}$ dysprosium 162,5	${}^{165}_{67}\text{Ho}$ holmium 165	${}^{166}_{68}\text{Er}$ erbium 167,3	${}^{169}_{69}\text{Tm}$ thulium 169	${}^{174}_{70}\text{Yb}$ ytterbium 173
${}^{227}_{89}\text{Ac}$ actinium [227]	${}^{232}_{90}\text{Th}$ thorium 232	${}^{231}_{91}\text{Pa}$ protactinium 231	${}^{238}_{92}\text{U}$ uranium 238	${}^{237}_{93}\text{Np}$ neptunium [237]	${}^{239}_{94}\text{Pu}$ Plutonium [244]	${}^{95}\text{Am}$ américium [243]	${}^{95}\text{Cm}$ curium [247]	${}^{97}\text{Bk}$ berkélium [247]	${}^{98}\text{Cf}$ californium [251]	${}^{99}\text{Es}$ einsteinium [252]	${}^{100}\text{Fm}$ fermium [257]	${}^{101}\text{Md}$ mendélévium [258]	${}^{102}\text{No}$ nobélium [259]

En gris les éléments que l'on ne trouve pas à l'état naturel, ils ont été créés par l'Homme.