

The Periodic Table of the Elements

1 2

3 4 5 6 7 0

(18)

4.0
He
helium
2

(1) (2)

6.9
Li
lithium
3

9.0
Be
beryllium
4

23.0
Na
sodium
11

24.3
Mg
magnesium
12

Key

relative atomic mass
symbol
name
atomic (proton) number

1.0
H
hydrogen
1

(13) (14) (15) (16) (17)

10.8
B
boron
5

12.0
C
carbon
6

14.0
N
nitrogen
7

16.0
O
oxygen
8

19.0
F
fluorine
9

20.2
Ne
neon
10

27.0
Al
aluminium
13

28.1
Si
silicon
14

31.0
P
phosphorus
15

32.1
S
sulfur
16

35.5
Cl
chlorine
17

39.9
Ar
argon
18

(3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

39.1
K
potassium
19

40.1
Ca
calcium
20

45.0
Sc
scandium
21

47.9
Ti
titanium
22

50.9
V
vanadium
23

52.0
Cr
chromium
24

54.9
Mn
manganese
25

55.8
Fe
iron
26

58.9
Co
cobalt
27

58.7
Ni
nickel
28

63.5
Cu
copper
29

65.4
Zn
zinc
30

69.7
Ga
gallium
31

72.6
Ge
germanium
32

74.9
As
arsenic
33

79.0
Se
selenium
34

79.9
Br
bromine
35

83.8
Kr
krypton
36

85.5
Rb
rubidium
37

87.6
Sr
strontium
38

88.9
Y
yttrium
39

91.2
Zr
zirconium
40

92.9
Nb
niobium
41

96.0
Mo
molybdenum
42

[97]
Tc
technetium
43

101.1
Ru
ruthenium
44

102.9
Rh
rhodium
45

106.4
Pd
palladium
46

107.9
Ag
silver
47

112.4
Cd
cadmium
48

114.8
In
indium
49

118.7
Sn
tin
50

121.8
Sb
antimony
51

127.6
Te
tellurium
52

126.9
I
iodine
53

131.3
Xe
xenon
54

132.9
Cs
caesium
55

137.3
Ba
barium
56

138.9
La *

178.5
Hf
hafnium
72

180.9
Ta
tantalum
73

183.8
W
tungsten
74

186.2
Re
rheneium
75

190.2
Os
osmium
76

192.2
Ir
iridium
77

195.1
Pt
platinum
78

197.0
Au
gold
79

200.6
Hg
mercury
80

204.4
Tl
thallium
81

207.2
Pb
lead
82

209.0
Bi
bismuth
83

[209]
Po
polonium
84

[210]
At
astatine
85

[222]
Rn
radon
86

[223]
Fr
francium
87

[226]
Ra
radium
88

[227]
Ac †
actinium
89

[267]
Rf
rutherfordium
104

[270]
Db
dubnium
105

[269]
Sg
seaborgium
106

[270]
Bh
bohrium
107

[270]
Hs
hassium
108

[278]
Mt
meitnerium
109

[281]
Ds
darmstadtium
110

[281]
Rg
roentgenium
111

[285]
Cn
copernicium
112

[286]
Nh
nihonium
113

[289]
Fl
flerovium
114

[289]
Mc
moscovium
115

[293]
Lv
livermorium
116

[294]
Ts
tennessine
117

[294]
Og
oganesson
118

* 58 – 71 Lanthanides

140.1 Ce cerium 58	140.9 Pr praseodymium 59	144.2 Nd neodymium 60	[145] Pm promethium 61	150.4 Sm samarium 62	152.0 Eu europium 63	157.3 Gd gadolinium 64	158.9 Tb terbium 65	162.5 Dy dysprosium 66	164.9 Ho holmium 67	167.3 Er erbium 68	168.9 Tm thulium 69	173.0 Yb ytterbium 70	175.0 Lu lutetium 71
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† 90 – 103 Actinides

232.0 Th thorium 90	231.0 Pa protactinium 91	238.0 U uranium 92	[237] Np neptunium 93	[244] Pu plutonium 94	[243] Am americium 95	[247] Cm curium 96	[247] Bk berkelium 97	[251] Cf californium 98	[252] Es einsteinium 99	[257] Fm fermium 100	[258] Md mendelevium 101	[259] No nobelium 102	[262] Lr lawrencium 103
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