

Periodic Table of the Elements

1
1IA
11A

2
IIA
2A

13
IIIA
3A

14
IVA
4A

15
VA
5A

16
VIA
6A

17
VIIA
7A

18
VIIIA
8A

1
H
Hydrogen
1.0079

3
Li
Lithium
6.941

11
Na
Sodium
22.989768

19
K
Potassium
39.0983

37
Rb
Rubidium
85.4678

55
Cs
Cesium
132.90543

87
Fr
Francium
223.0197

2
He
Helium
4.00260

4
Be
Beryllium
9.01218

12
Mg
Magnesium
24.305

20
Ca
Calcium
40.078

38
Sr
Strontium
87.62

56
Ba
Barium
137.327

88
Ra
Radium
226.0254

5
B
Boron
10.811

13
Al
Aluminum
26.981539

31
Ga
Gallium
69.732

49
In
Indium
114.818

81
Tl
Thallium
204.3833

113
Uut
Ununtrium
unknown

6
C
Carbon
12.011

14
Si
Silicon
28.0855

32
Ge
Germanium
72.64

50
Sn
Tin
118.71

82
Pb
Lead
207.2

114
Fl
Flerovium
[289]

7
N
Nitrogen
14.00674

15
P
Phosphorus
30.973762

33
As
Arsenic
74.92159

51
Sb
Antimony
121.760

83
Bi
Bismuth
208.98037

115
Uup
Ununpentium
unknown

8
O
Oxygen
15.9994

16
S
Sulfur
32.066

34
Se
Selenium
78.96

52
Te
Tellurium
127.6

84
Po
Polonium
[208.9824]

9
F
Fluorine
18.998403

17
Cl
Chlorine
35.4527

35
Br
Bromine
79.904

53
I
Iodine
126.90447

85
At
Astatine
209.9871

117
Uus
Ununseptium
unknown

10
Ne
Neon
20.1797

18
Ar
Argon
39.948

36
Kr
Krypton
83.80

54
Xe
Xenon
131.29

86
Rn
Radon
222.0176

118
Uuo
Ununoctium
unknown

21
Sc
Scandium
44.95591

22
Ti
Titanium
47.88

23
V
Vanadium
50.9415

24
Cr
Chromium
51.9961

25
Mn
Manganese
54.938

26
Fe
Iron
55.847

27
Co
Cobalt
58.9332

28
Ni
Nickel
58.6934

29
Cu
Copper
63.546

30
Zn
Zinc
65.39

39
Y
Yttrium
88.90585

40
Zr
Zirconium
91.224

41
Nb
Niobium
92.90638

42
Mo
Molybdenum
95.94

43
Tc
Technetium
98.9072

44
Ru
Ruthenium
101.07

45
Rh
Rhodium
102.9055

46
Pd
Palladium
106.42

47
Ag
Silver
107.8682

48
Cd
Cadmium
112.411

57-71

72
Hf
Hafnium
178.49

73
Ta
Tantalum
180.9479

74
W
Tungsten
183.85

75
Re
Rhenium
186.207

76
Os
Osmium
190.23

77
Ir
Iridium
192.22

78
Pt
Platinum
195.08

79
Au
Gold
196.9665

80
Hg
Mercury
200.59

89-103

104
Rf
Rutherfordium
[261]

105
Db
Dubnium
[262]

106
Sg
Seaborgium
[266]

107
Bh
Bohrium
[264]

108
Hs
Hassium
[269]

109
Mt
Meitnerium
[268]

110
Ds
Darmstadtium
[269]

111
Rg
Roentgenium
[272]

112
Cn
Copernicium
[277]

116
Lv
Livermorium
[298]

118
Og
Oganesson
[294]

Lanthanide Series

57
La
Lanthanum
138.9055

58
Ce
Cerium
140.115

59
Pr
Praseodymium
140.90765

60
Nd
Neodymium
144.24

61
Pm
Promethium
144.9127

62
Sm
Samarium
150.36

63
Eu
Europium
151.9655

64
Gd
Gadolinium
157.25

65
Tb
Terbium
158.92534

66
Dy
Dysprosium
162.50

67
Ho
Holmium
164.93032

68
Er
Erbium
167.26

69
Tm
Thulium
168.93421

70
Yb
Ytterbium
173.04

71
Lu
Lutetium
174.967

Actinide Series

89
Ac
Actinium
227.0278

90
Th
Thorium
232.0381

91
Pa
Protactinium
231.03588

92
U
Uranium
238.0289

93
Np
Neptunium
237.0482

94
Pu
Plutonium
244.0642

95
Am
Americium
243.0614

96
Cm
Curium
247.0703

97
Bk
Berkelium
247.0703

98
Cf
Californium
251.0796

99
Es
Einsteinium
[254]

100
Fm
Fermium
257.0951

101
Md
Mendelevium
258.1

102
No
Nobelium
259.1009

103
Lr
Lawrencium
[262]

Alkali Metals

Alkaline Earths

Transition Metals

Basic Metals

Semi-Metals

Nonmetals

Halogens

Noble Gases

Lanthanides

Actinides