

The Periodic Table of Elements

1

2

3

4

5

6

7

0 (8)

1.0

H

hydrogen

1

relative atomic mass

atomic symbol

name

atomic (proton) number

(1)

(2)

(13)

(14)

(15)

(16)

(17)

6.9

Li

lithium

3

9.0

Be

beryllium

4

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

23.0

Na

sodium

11

24.3

Mg

magnesium

12

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

95.9

Mo

molybdenum

42

[98]

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*

lanthanum

57

178.5

Hf

hafnium

72

180.9

Ta

tantalum

73

183.8

W

tungsten

74

186.2

Re

rhenium

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

[261]

Rf

rutherfordium

104

[262]

Db

dubnium

105

[266]

Sg

seaborgium

106

[264]

Bh

bohrium

107

[277]

Hs

hassium

108

[268]

Mt

meitnerium

109

[271]

Ds

darmstadtium

110

[272]

Rg

roentgenium

111

Elements with atomic numbers 112-116 have been reported but not fully authenticated

* Lanthanide series

* Actinide series

| | | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------------------|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|---|---|--------------------------------------|--|---------------------------------------|---|
| 140 Ce cerium 58 | 141 Pr praseodymium 59 | 144 Nd neodymium 60 | [147] Pm promethium 61 | 150 Sm samarium 62 | 152 Eu europium 63 | 157 Gd gadolinium 64 | 159 Tb terbium 65 | 163 Dy dysprosium 66 | 165 Ho holmium 67 | 167 Er erbium 68 | 169 Tm thulium 69 | 173 Yb ytterbium 70 | 175 Lu lutetium 71 |
| 232 Th thorium 90 | [231] Pa protactinium 91 | 238 U uranium 92 | [237] Np neptunium 93 | [242] Pu plutonium 94 | [243] Am americium 95 | [247] Cm curium 96 | [245] Bk berkelium 97 | [251] Cf californium 98 | [254] Es einsteinium 99 | [253] Fm fermium 100 | [256] Md mendelevium 101 | [254] No nobelium 102 | [257] Lr lawrencium 103 |