

Periodic Table of the Elements

(based on $^{12}_6\text{C} = 12.0000$)

Group

1

1A

1

H

Hydrogen

1.008

2

2A

3

Li

Lithium

6.941

4

Be

Beryllium

9.012

11

Na

Sodium

22.990

12

Mg

Magnesium

24.305

19

K

Potassium

39.098

20

Ca

Calcium

40.078

37

Rb

Rubidium

85.468

55

Cs

Cesium

132.905

87

Fr

Francium

223

21

Sc

Scandium

44.956

22

Ti

Titanium

47.88

39

Y

Yttrium

88.906

57

La

Lanthanum

138.905

89

Ac

Actinium

227.028

23

V

Vanadium

50.942

24

Cr

Chromium

51.996

41

Nb

Niobium

92.906

73

Ta

Tantalum

180.948

105

Db

Dubnium

(262)

25

Mn

Manganese

54.938

26

Fe

Iron

55.847

43

Tc

Technetium

98

75

Re

Rhenium

186.207

107

Bh

Bohrium

(264)

27

Co

Cobalt

58.933

28

Ni

Nickel

58.693

45

Rh

Rhodium

102.906

77

Ir

Iridium

192.22

109

Mt

Meitnerium

(268)

29

Cu

Copper

63.546

47

Ag

Silver

107.868

79

Au

Gold

196.967

111

Ro

Roentgenium

(269)

31

Ga

Gallium

69.723

49

In

Indium

114.82

81

Tl

Thallium

204.383

129

Uu

Ununseptium

(289)

33

As

Arsenic

74.922

51

Sb

Antimony

121.757

83

Bi

Bismuth

208.980

127

Uhs

Unhennium

(297)

35

Br

Bromine

79.904

53

I

Iodine

126.905

85

At

Astatine

210

125

Uub

Unbibium

(287)

36

Kr

Krypton

83.80

54

Xe

Xenon

131.29

86

Rn

Radon

222

118

Uuo

Ununoctium

(294)

13

B

Boron

10.81

14

C

Carbon

12.011

15

N

Nitrogen

14.007

16

O

Oxygen

15.999

17

F

Fluorine

18.998

18

Ar

Argon

39.948

19

Ne

Neon

20.180

20

He

Helium

4.003

Period

1

2

3

4

5

6

7

Atomic number

Symbol

Name

Average Atomic Mass

14

Si

Silicon

28.086

13

3A

Al

Aluminum

26.982

14

4A

Si

Silicon

28.086

15

5A

P

Phosphorus

30.974

16

6A

S

Sulfur

32.06

17

7A

Cl

Chlorine

35.453

18

8A

Ar

Argon

39.948

Transition Metals

3B

4B

5B

6B

7B

8B

1B

2B

Metals

Nonmetals

Inner Transition Metals

Lanthanide series

Actinide series

58

Ce

Cerium

140.12

59

Pr

Praseodymium

140.908

60

Nd

Neodymium

144.24

61

Pm

Promethium

144.913

62

Sm

Samarium

150.36

63

Eu

Europium

151.96

64

Gd

Gadolinium

157.25

65

Tb

Terbium

158.925

66

Dy

Dysprosium

162.50

67

Ho

Holmium

164.930

68

Er

Erbium

167.26

69

Tm

Thulium

168.934

70

Yb

Ytterbium

173.04

71

Lu

Lutetium

174.967

90

Th

Thorium

232.038

91

Pa

Protactinium

231.036

92

U

Uranium

238.029

93

Np

Neptunium

237.048

94

Pu

Plutonium

244.064

95

Am

Americium

243.061

96

Cm

Curium

247.070

97

Bk

Berkelium

247.070

98

Cf

Californium

251.080

99

Es

Einsteinium

252.083

100

Fm

Fermium

257.095

101

Md

Mendelevium

258.099

102

No

Nobelium

259.101

103

Lr

Lawrencium

260.105