

1

Nonmetal

**H**

1.008

**Hydrogen**

2

Noble Gas

**He**

4.003

**Helium**

3

Alkali Metal

**Li**

6.941

**Lithium**

4

Alkaline Earth

**Be**

9.012

**Beryllium**

5

Semimetal

**B**

10.811

**Boron**

6

Nonmetal

**C**

12.011

**Carbon**

7

Nonmetal

**N**

14.007

**Nitrogen**

8

Nonmetal

**O**

15.999

**Oxygen**

9

Halogen

**F**

18.998

**Fluorine**

10

Noble Gas

**Ne**

20.180

**Neon**

11

Alkali Metal

**Na**

22.990

**Sodium**

12

Alkaline Earth

**Mg**

24.305

**Magnesium**

**13**

Basic Metal

**Al**

26.982

**Aluminum**

**14**

Semimetal

**Si**

28.086

**Silicon**

**15**

Nonmetal

**P**

30.974

**Phosphorus**

**16**

Nonmetal

**S**

32.066

**Sulfur**

**17**

Halogen

**Cl**

35.453

**Chlorine**

**18**

Noble Gas

**Ar**

39.948

**Argon**

**19**

Alkali Metal

**K**

39.098

**Potassium**

**20**

Alkaline Earth

**Ca**

40.078

**Calcium**

**21**

Transition Metal

**Sc**

44.956

**Scandium**

**22**

Transition Metal

**Ti**

47.88

**Titanium**

**23**

Transition Metal

**V**

50.942

**Vanadium**

**24**

Transition Metal

**Cr**

51.996

**Chromium**

**25**

Transition Metal

**Mn**

54.938

**Manganese**

**26**

Transition Metal

**Fe**

55.845

**Iron**

**27**

Transition Metal

**Co**

58.933

**Cobalt**

**28**

Transition Metal

**Ni**

58.693

**Nickel**

**29**

Transition Metal

**Cu**

63.546

**Copper**

**30**

Transition Metal

**Zn**

65.38

**Zinc**

31

Basic Metal

**Ga**

69.723

**Gallium**

32

Semimetal

**Ge**

72.631

**Germanium**

33

Semimetal

**As**

74.922

**Arsenic**

34

Nonmetal

**Se**

78.971

**Selenium**

35

Halogen

**Br**

79.904

**Bromine**

36

Noble Gas

**Kr**

83.798

**Krypton**

**37**

Alkali Metal

**Rb**

85.468

**Rubidium**

**38**

Alkaline Earth

**Sr**

87.62

**Strontium**

**39**

Transition Metal

**Y**

88.906

**Yttrium**

**40**

Transition Metal

**Zr**

91.224

**Zirconium**

**41**

Transition Metal

**Nb**

92.906

**Niobium**

**42**

Transition Metal

**Mo**

95.95

**Molybdenum**

**43**

Transition Metal

**Tc**

98.907

**Technetium**

**44**

Transition Metal

**Ru**

101.07

**Ruthenium**

**45**

Transition Metal

**Rh**

102.906

**Rhodium**

**46**

Transition Metal

**Pd**

106.42

**Palladium**

**47**

Transition Metal

**Ag**

107.868

**Silver**

**48**

Transition Metal

**Cd**

112.414

**Cadmium**



49

Basic Metal

**In**

114.818

**Indium**

50

Basic Metal

**Sn**

118.711

**Tin**

51

Semimetal

**Sb**

121.760

**Antimony**

52

Semimetal

**Te**

127.6

**Tellurium**

53

Halogen

**I**

126.904

**Iodine**

54

Noble Gas

**Xe**

131.294

**Xenon**

**55**

Alkali Metal

**Cs**

132.905

**Cesium**

**56**

Alkaline Earth

**Ba**

137.328

**Barium**

**57**

Lanthanide

**La**

138.905

**Lanthanum**

**58**

Lanthanide

**Ce**

140.116

**Cerium**

**59**

Lanthanide

**Pr**

140.908

**Praseodymium**

**60**

Lanthanide

**Nd**

144.243

**Neodymium**

**61**

Lanthanide

**Pm**

144.913

**Promethium**

**62**

Lanthanide

**Sm**

150.36

**Samarium**

**63**

Lanthanide

**Eu**

151.964

**Europium**

**64**

Lanthanide

**Gd**

157.25

**Gadolinium**

**65**

Lanthanide

**Tb**

158.925

**Terbium**

**66**

Lanthanide

**Dy**

162.500

**Dysprosium**

67

Lanthanide

**Ho**

164.930

**Holmium**

68

Lanthanide

**Er**

167.259

**Erbium**

69

Lanthanide

**Tm**

168.934

**Thulium**

70

Lanthanide

**Yb**

173.055

**Ytterbium**

71

Lanthanide

**Lu**

174.967

**Lutetium**

72

Transition Metal

**Hf**

178.49

**Hafnium**

**73**

Transition Metal

**Ta**

180.948

**Tantalum**

**74**

Transition Metal

**W**

183.85

**Tungsten**

**75**

Transition Metal

**Re**

186.207

**Rhenium**

**76**

Transition Metal

**Os**

190.23

**Osmium**

**77**

Transition Metal

**Ir**

192.22

**Iridium**

**78**

Transition Metal

**Pt**

195.08

**Platinum**

79

Transition Metal

**Au**

196.967

**Gold**

80

Transition Metal

**Hg**

200.59

**Mercury**

81

Basic Metal

**Tl**

204.383

**Thallium**

82

Basic Metal

**Pb**

207.2

**Lead**

83

Basic Metal

**Bi**

208.980

**Bismuth**

84

Semimetal

**Po**

[208.982]

**Polonium**

85

Halogen

**At**

209.987

**Astatine**

86

Noble Gas

**Rn**

222.018

**Radon**

87

Alkali Metal

**Fr**

223.020

**Francium**

88

Alkaline Earth

**Ra**

226.025

**Radium**

89

Actinide

**Ac**

227.028

**Actinium**

90

Actinide

**Th**

232.038

**Thorium**

91

Actinide

**Pa**

231.036

**Protactinium**

92

Actinide

**U**

238.029

**Uranium**

93

Actinide

**Np**

237.048

**Neptunium**

94

Actinide

**Pu**

244.064

**Plutonium**

95

Actinide

**Am**

243.061

**Americium**

96

Actinide

**Cm**

247.070

**Curium**



97

Actinide

**Bk**

247.070

**Berkelium**

98

Actinide

**Cf**

251.080

**Californium**

99

Actinide

**Es**

[254]

**Einsteinium**

100

Actinide

**Fm**

257.095

**Fermium**

101

Actinide

**Md**

258.1

**Mendelevium**

102

Actinide

**No**

259.101

**Nobelium**

**103**

Actinide

**Lr**

[262]

**Lawrencium**

**104**

Transition Metal

**Rf**

[261]

**Rutherfordium**

**105**

Transition Metal

**Db**

[262]

**Dubnium**

**106**

Transition Metal

**Sg**

[266]

**Seaborgium**

**107**

Transition Metal

**Bh**

[264]

**Bohrium**

**108**

Transition Metal

**Hs**

[269]

**Hassium**

**109**

Transition Metal

**Mt**

[278]

**Meitnerium**

**110**

Transition Metal

**Ds**

[281]

**Darmstadtium**

**111**

Transition Metal

**Rg**

[280]

**Roentgenium**

**112**

Transition Metal

**Cn**

[285]

**Copernicium**

**113**

Basic Metal

**Nh**

[286]

**Nihonium**

**114**

Basic Metal

**Fl**

[289]

**Flerovium**

**115**

Basic Metal

**Mc**

[289]

**Moscovium**

**116**

Basic Metal

**Lv**

[293]

**Livermorium**

**117**

Halogen

**Ts**

[294]

**Tennessine**

**118**

Noble Gas

**Og**

[294]

**Oganesson**