

Chapter 5

Section 2 Electron Configuration and the Periodic Table

Periodic Table of the Elements

Hydrogen

Semi-metals

(see inside or outside)

Metals

Alkali metals

Alkaline earth metals

Transition metals

Other metals

Nonmetals

Halogens

Noble gases

Other nonmetals

Group 1

1

H

Hydrogen

[1s¹]

1.008

1.00794

Group 2

2

He

Helium

[1s²]

4.0026

4.002602

Group 13

3

B

Boron

[He] 2s² 2p¹

10.81

10.811

Group 14

4

C

Carbon

[He] 2s² 2p²

12.01

12.011

Group 15

5

N

Nitrogen

[He] 2s² 2p³

14.01

14.00643

Group 16

6

O

Oxygen

[He] 2s² 2p⁴

16.00

15.999

Group 17

7

F

Fluorine

[He] 2s² 2p⁵

19.00

18.998403

Group 18

8

Ne

Neon

[He] 2s² 2p⁶

20.18

20.179766

Group 9

9

Li

Lithium

[He] 2s¹

6.94

6.941

Group 10

10

Be

Beryllium

[He] 2s²

9.01

9.012182

Group 11

11

Ba

Barium

[Xe] 4f¹⁴ 6s²

137.3

137.327

Group 12

12

Ca

Calcium

[Ar] 4s²

40.08

40.078

Group 13

13

Al

Aluminum

[Ne] 3s² 3p¹

26.98

26.981538

Group 14

14

Si

Silicon

[Ne] 3s² 3p²

28.09

28.08558

Group 15

15

P

Phosphorus

[Ne] 3s² 3p³

30.97

30.973762

Group 16

16

S

Sulfur

[Ne] 3s² 3p⁴

32.07

32.065

Group 17

17

Cl

Chlorine

[Ne] 3s² 3p⁵

35.45

35.453

Group 18

18

Ar

Argon

[Ne] 3s² 3p⁶

39.95

39.962383

Group 19

19

K

Potassium

[Ar] 4s¹

39.10

39.0983

Group 20

20

Sc

Scandium

[Ar] 3d¹ 4s²

44.96

44.955912

Group 21

21

Ti

Titanium

[Ar] 3d² 4s²

47.88

47.88

Group 22

22

V

Vanadium

[Ar] 3d³ 4s²

50.94

50.9415

Group 23

23

Cr

Chromium

[Ar] 3d⁵ 4s¹

52.00

51.99616

Group 24

24

Mn

Manganese

[Ar] 3d⁵ 4s²

54.94

54.938045

Group 25

25

Fe

Iron

[Ar] 3d⁶ 4s²

55.85

55.845

Group 26

26

Co

Cobalt

[Ar] 3d⁷ 4s²

58.93

58.933195

Group 27

27

Ni

Nickel

[Ar] 3d⁸ 4s²

58.71

58.6934

Group 28

28

Cu

Copper

[Ar] 3d¹⁰ 4s¹

63.55

63.546

Group 29

29

Zn

Zinc

[Ar] 3d¹⁰ 4s²

65.39

65.38

Group 30

30

Ga

Gallium

[Ar] 3d¹⁰ 4s² 4p¹

69.72

69.7231

Group 31

31

Ge

Germanium

[Ar] 3d¹⁰ 4s² 4p²

72.64

72.6415

Group 32

32

As

Arsenic

[Ar] 3d¹⁰ 4s² 4p³

74.92

74.9216

Group 33

33

Se

Selenium

[Ar] 3d¹⁰ 4s² 4p⁴

78.96

78.96

Group 34

34

Br

Bromine

[Ar] 3d¹⁰ 4s² 4p⁵

79.90

79.904

Group 35

35

Kr

Krypton

[Ar] 3d¹⁰ 4s² 4p⁶

83.80

83.8018

Group 36

36

Rb

Rubidium

[Kr] 4d¹⁰ 5s¹

85.47

85.4678

Group 37

37

Sr

Strontium

[Kr] 4d¹⁰ 5s²

87.62

87.62

Group 38

38

Y

Yttrium

[Kr] 4d¹ 5s²

88.91

88.90584

Group 39

39

Zr

Zirconium

[Kr] 4d² 5s²

91.22

91.224

Group 40

40

Nb

Niobium

[Kr] 4d⁴ 5s¹

92.91

92.90638

Group 41

41

Mo

Molybdenum

[Kr] 4d⁵ 5s¹

95.94

95.94

Group 42

42

Tc

Technetium

[Kr] 4d⁵ 5s²

98.01

98.0072

Group 43

43

Ru

Ruthenium

[Kr] 4d⁶ 5s¹

101.07

101.07

Group 44

44

Rh

Rhodium

[Kr] 4d⁷ 5s¹

102.91

102.9055

Group 45

45

Pd

Palladium

[Kr] 4d¹⁰

106.42

106.42

Group 46

46

Ag

Silver

[Kr] 4d¹⁰ 5s¹

107.87

107.8682

Group 47

47

Cd

Cadmium

[Kr] 4d¹⁰ 5s²

112.41

112.411

Group 48

48

In

Indium

[Kr] 4d¹⁰ 5s² 5p¹

114.82

114.818

Group 49

49

Sn

Tin

[Kr] 4d¹⁰ 5s² 5p²

118.71

118.710

Group 50

50

Sb

Antimony

[Kr] 4d¹⁰ 5s² 5p³

121.76

121.757

Group 51

51

Te

Tellurium

[Kr] 4d¹⁰ 5s² 5p⁴

127.60

127.603

Group 52

52

I

Iodine

[Kr] 4d¹⁰ 5s² 5p⁵

126.91

126.90509

Group 53

53

Xe

Xenon

[Kr] 4d¹⁰ 5s² 5p⁶

131.29

131.294

Group 54

54

Ba

Barium

[Xe] 4f¹⁴ 6s²

137.33

137.327

Group 55

55

La

Lanthanum

[Xe] 4f¹ 6s²

138.91

138.90547

Group 56

56

Ce

Cerium

[Xe] 4f¹ 5d¹ 6s²

140.12

140.118

Group 57

57

Pr

Praseodymium

[Xe] 4f³ 6s²

140.91

140.90766

Group 58

58

Nd

Neodymium

[Xe] 4f⁴ 6s²

144.24

144.242

Group 59

59

Pm

Promethium

[Xe] 4f⁵ 6s²

144.91

144.9127

Group 60

60

Sm

Samarium

[Xe] 4f⁶ 6s²

150.36

150.358

Group 61

61

Eu

Europium

[Xe] 4f⁷ 6s²

151.96

151.964

Group 62

62

Gd

Gadolinium

[Xe] 4f⁷ 5d¹ 6s²

157.25

157.254

Group 63

63

Tb

Terbium

[Xe] 4f⁹ 6s²

158.93

158.92535

Group 64

64

Dy

Dysprosium

[Xe] 4f¹⁰ 6s²

162.50

162.5001

Group 65

65

Ho

Holmium

[Xe] 4f¹¹ 6s²

164.93

164.93032

Group 66

66

Er

Erbium

[Xe] 4f¹² 6s²

167.26

167.25937

Group 67

67

Tm

Thulium

[Xe] 4f¹³ 6s²

168.93

168.93032

Group 68

68

Yb

Ytterbium

[Xe] 4f¹⁴ 6s²

173.05

173.044

Group 69

69

Lu

Lutetium

[Xe] 4f¹⁴ 5d¹ 6s²

174.97

174.96708

Group 70

70

Hf

Hafnium

[Xe] 4f¹⁴ 5d² 6s²

178.49

178.49

Group 71

71

Ta

Tantalum

[Xe] 4f¹⁴ 5d³ 6s²

180.95

180.94788

Group 72

72

W

Tungsten

[Xe] 4f¹⁴ 5d⁴ 6s²

183.84

183.84

Group 73

73

Re

Rhenium

[Xe] 4f¹⁴ 5d⁵ 6s²

186.21

186.207

Group 74

74

Os

Osmium

[Xe] 4f¹⁴ 5d⁶ 6s²

190.23

190.2336

Group 75

75

Ir

Iridium

[Xe] 4f¹⁴ 5d⁷ 6s²

192.22

192.222

Group 76

76

Pt

Platinum

[Xe] 4f¹⁴ 5d⁹ 6s¹

195.08

195.083

Group 77

77

Au

Gold

[Xe] 4f¹⁴ 5d¹⁰ 6s¹

196.97

196.96657

Group 78

78

Hg

Mercury

[Xe] 4f¹⁴ 5d¹⁰ 6s²

200.59

200.59

Group 79

79

Tl

Thallium

[Xe] 4f¹⁴ 6s² 6p¹

204.38

204.377

Group 80

80

Pb

Lead

[Xe] 4f¹⁴ 6s² 6p²

207.2

207.2

Group 81

81

Bi

Bismuth

[Xe] 4f¹⁴ 6s² 6p³

208.98

208.9804

Group 82

82

Po

Polonium

[Xe] 4f¹⁴ 6s² 6p⁴

209

209

Group 83

83

At

Astatine

[Xe] 4f¹⁴ 6s² 6p⁵

210

210

Group 84

84

Rn

Radon

[Xe] 4f¹⁴ 6s² 6p⁶

222

222

Group 85

85

Fr

Francium

[Rn] 5f¹⁴ 7s¹

223

223

Group 86

86

Ra

Radium

[Rn] 5f¹⁴ 7s²

226

226

Group 87

87

Ac

Actinium

[Rn] 5f¹ 7s²

227

227

Group 88

88

Th

Thorium

[Rn] 5f² 7s²

232.04

232.0377

Group 89

89

Pa

Protactinium

[Rn] 5f² 6d¹ 7s²

231.04

231.03626

Group 90

90

U

Uranium

[Rn] 5f³ 7s²

238.03

238.02891

Group 91

91

Np

Neptunium

[Rn] 5f⁴ 7s²

237.05

237.04817

Group 92

92

Pu

Plutonium

[Rn] 5f⁶ 7s²

244.06

244.0642

Group 93

93

Am

Americium

[Rn] 5f⁷ 7s²

243.06

243.06138

Group 94

94

Cm

Curium

[Rn] 5f⁷ 6d¹ 7s²

247.08

247.07638

Group 95

95

Bk

Berkelium

[Rn] 5f⁹ 7s²

247.07

247.0703

Group 96

96

Cf

Californium

[Rn] 5f¹⁰ 7s²

251.08

251.07657

Group 97

97

Es

Einsteinium

[Rn] 5f¹¹ 7s²

252.08

252.083

Group 98

98

Fm

Fermium

[Rn] 5f¹² 7s²

257.10

257.10528

Group 99

99

Md

Mendelevium

[Rn] 5f¹³ 7s²

258.11

258.10844

Group 100

100

No

Nobelium

[Rn] 5f¹⁴ 7s²

259.10

259.10858

Group 101

101

Lr

Lutetium

[Rn] 5f¹⁴ 7s² 7p¹

262.11

262.10937

Group 102

102

Rf

Rutherfordium

[Rn] 5f¹⁴ 6d² 7s²

261.11

261.10888

Group 103

103

Db

Dubnium

[Rn] 5f¹⁴ 6d³ 7s²

262.11

262.10888

Group 104

104

Sg

Seaborgium

[Rn] 5f¹⁴ 6d⁴ 7s²

266.11

266.10937

Group 105

105

Bh

Berkelium

[Rn] 5f¹⁴ 6d⁵ 7s²

264.11

264.10937

Group 106

106

Hs

Hassium

[Rn] 5f¹⁴ 6d⁶ 7s²

277.11

277.10937

Group 107

107

Mt

Moscovium

[Rn] 5f¹⁴ 6d⁷ 7s²

288.11

288.10937

Group 108

108

Lv

Livermorium

[Rn] 5f¹⁴ 6d⁸ 7s²

293.11

293.10937

Group 109

109

Ts

Tennessine

[Rn] 5f¹⁴ 6d⁹ 7s²

289.11

289.10937

Group 110

110

Uu

Ununennium

[Rn] 5f¹⁴ 6d¹⁰ 7s²

288.11

288.10937

Group 111

111

Uuh

Ununhennium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p¹

289.11

289.10937

Group 112

112

Uuo

Ununoctium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p²

289.11

289.10937

Group 113

113

Uuq

Ununquadium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p³

289.11

289.10937

Group 114

114

Uus

Ununseptium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁴

289.11

289.10937

Group 115

115

Uut

Ununtrium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁵

289.11

289.10937

Group 116

116

Uuq

Ununquadium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁶

289.11

289.10937

Group 117

117

Uus

Ununseptium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁵

289.11

289.10937

Group 118

118

Uuo

Ununoctium

[Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁶

289.11

289.10937

† Unofficial IUPAC name for elements 119 and 120.

The name for element 119 has been suggested for use as "Uue" and the name for element 120 has been suggested for use as "Uuo".

† Unofficial IUPAC name for elements 119 and 120.

The name for element 119 has been suggested for use as "Uue" and the name for element 120 has been suggested for use as "Uuo".

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Preview

Main

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