

Periodic Table of Elements

Group

1 IA

1

1

1.008

1.1

H

Hydrogen

1s¹

2 IIA

3

6.94

1.82

Li

Lithium

[He]2s¹

4

9.012

1.53

Be

Beryllium

[He]2s²

3

11

22.990

2.27

Na

Sodium

[Ne]3s¹

12

24.305

1.73

Mg

Magnesium

[Ne]3s²

4

19

39.098

2.75

K

Potassium

[Ar]4s¹

20

40.078

2.31

Ca

Calcium

[Ar]4s²

21

44.956

2.15

Sc

Scandium

[Ar]3d¹4s²

22

47.867

2.11

Ti

Titanium

[Ar]3d²4s²

23

50.942

2.07

V

Vanadium

[Ar]3d³4s²

24

51.996

2.06

Cr

Chromium

[Ar]3d⁵4s¹

25

54.938

2.05

Mn

Manganese

[Ar]3d⁵4s²

26

55.845

2.04

Fe

Iron

[Ar]3d⁶4s²

27

58.933

2.0

Co

Cobalt

[Ar]3d⁷4s²

28

58.693

1.97

Ni

Nickel

[Ar]3d⁸4s²

29

63.546

1.96

Cu

Copper

[Ar]3d¹⁰4s¹

30

65.38

2.01

Zn

Zinc

[Ar]3d¹⁰4s²

31

69.723

1.87

Ga

Gallium

[Ar]3d¹⁰4s²4p¹

32

72.630

2.11

Ge

Germanium

[Ar]3d¹⁰4s²4p²

33

74.922

1.85

As

Arsenic

[Ar]3d¹⁰4s²4p³

34

78.971

1.9

Se

Selenium

[Ar]3d¹⁰4s²4p⁴

35

79.904

1.85

Br

Bromine

[Ar]3d¹⁰4s²4p⁵

36

83.798

2.02

Kr

Krypton

[Ar]3d¹⁰4s²4p⁶

5

37

85.468

3.03

Rb

Rubidium

[Kr]5s¹

38

87.62

2.49

Sr

Strontium

[Kr]5s²

39

88.906

2.32

Y

Yttrium

[Kr]4d¹5s²

40

91.224

2.23

Zr

Zirconium

[Kr]4d²5s²

41

92.906

2.18

Nb

Niobium

[Kr]4d⁴5s¹

42

95.95

2.17

Mo

Molybdenum

[Kr]4d⁵5s¹

43

[98]

2.16

Tc

Technetium

[Kr]4d⁵5s²

44

101.07

2.13

Ru

Ruthenium

[Kr]4d⁷5s¹

45

102.906

2.1

Rh

Rhodium

[Kr]4d⁸5s¹

46

106.42

2.1

Pd

Palladium

[Kr]4d¹⁰

47

107.868

2.11

Ag

Silver

[Kr]4d¹⁰5s¹

48

112.414

2.18

Cd

Cadmium

[Kr]4d¹⁰5s²

49

114.818

1.93

In

Indium

[Kr]4d¹⁰5s²5p¹

50

118.710

2.17

Sn

Tin

[Kr]4d¹⁰5s²5p²

51

121.760

2.06

Sb

Antimony

[Kr]4d¹⁰5s²5p³

52

127.60

2.06

Te

Tellurium

[Kr]4d¹⁰5s²5p⁴

53

126.904

1.98

I

Iodine

[Kr]4d¹⁰5s²5p⁵

54

131.293

2.16

Xe

Xenon

[Kr]4d¹⁰5s²5p⁶

6

55

132.905

3.43

Cs

Caesium

[Xe]6s¹

56

137.327

2.68

Ba

Barium

[Xe]6s²

57-71

La-Lu

Lanthanide

72

178.486

2.23

Hf

Hafnium

[Xe]4f¹⁴5d²6s²

73

180.948

2.22

Ta

Tantalum

[Xe]4f¹⁴5d³6s²

74

183.84

2.18

W

Tungsten

[Xe]4f¹⁴5d⁴6s²

75

186.207

2.16

Re

Rhenium

[Xe]4f¹⁴5d⁵6s²

76

190.23

2.16

Os

Osmium

[Xe]4f¹⁴5d⁶6s²

77

192.217

2.13

Ir

Iridium

[Xe]4f¹⁴5d⁷6s²

78

195.084

2.13

Pt

Platinum

[Xe]4f¹⁴5d⁹6s¹

79

196.967

2.14

Au

Gold

[Xe]4f¹⁴5d¹⁰6s¹

80

200.592

2.23

Hg

Mercury

[Xe]4f¹⁴5d¹⁰6s²

81

204.38

1.96

Tl

Thallium

[Xe]4f¹⁴5d¹⁰6s²6p¹

82

207.2

2.02

Pb

Lead

[Xe]4f¹⁴5d¹⁰6s²6p²

83

208.980

2.07

Bi

Bismuth

[Xe]4f¹⁴5d¹⁰6s²6p³

84

[209]

1.97

Po

Polonium

[Xe]4f¹⁴5d¹⁰6s²6p⁴

85

[210]

2.02

At

Astatine

[Xe]4f¹⁴5d¹⁰6s²6p⁵

86

[222]

2.2

Rn

Radon

[Xe]4f¹⁴5d¹⁰6s²6p⁶

7

87

[223]

3.48

Fr

Francium

[Rn]7s¹

88

[226]

2.83

Ra

Radium

[Rn]7s²

89-103

Ac-Lr

Actinide

104

[267]

U

Rf

Rutherfordium

[Rn]5f¹⁴6d²7s²

105

[268]

U

Db

Dubnium

[Rn]5f¹⁴6d³7s²

106

[269]

U

Sg

Seaborgium

[Rn]5f¹⁴6d⁴7s²

107

[270]

U

Bh

Bohrium

[Rn]5f¹⁴6d⁵7s²

108

[269]

U

Hs

Hassium

[Rn]5f¹⁴6d⁶7s²

109

[278]

U

Mt

Meitnerium

[Rn]5f¹⁴6d⁷7s²

110

[281]

U

Ds

Darmstadtium

[Rn]5f¹⁴6d⁹7s¹

111

[280]

U

Rg

Roentgenium

[Rn]5f¹⁴6d¹⁰7s¹

112

[285]

U

Cn

Copernicium

[Rn]5f¹⁴6d¹⁰7s²

113

[286]

U

Nh

Nihonium

[Rn]5f¹⁴6d¹⁰7s²7p¹

114

[289]

U

Fl

Flerovium

[Rn]5f¹⁴6d¹⁰7s²7p²

115

[289]

U

Mc

Moscovium

[Rn]5f¹⁴6d¹⁰7s²7p³

116

[293]

U

Lv

Livermorium

[Rn]5f¹⁴6d¹⁰7s²7p⁴

117

[294]

U

Ts

Tennessine

[Rn]5f¹⁴6d¹⁰7s²7p⁵

118

[294]

U

Og

Oganesson

[Rn]5f¹⁴6d¹⁰7s²7p⁶

43

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2.16

Tc

Technetium

[Kr]4d⁵5s²

7

7.1194

0.55

oxidation states

1st ionisation energy[eV]

affinity[eV]

symbol

name

ground state configuration

solid@273K

gas@273K

liquid@273K

unknown

radioactive

lab made

Alkali Metal

Transitional Metal

Non metal

Lan-
thanide

Alkaline Earth Metal

Post Trans Metal

Halogen

Actinide

Metalloid

Noble gas

Unknown properties

13 IIIA

5

10.81

1.92

B

Boron

[He]2s²2p¹

14 IVA

6

12.011

1.7

C

Carbon

[He]2s²2p²

15 VA

7

14.007

1.55

N

Nitrogen

[He]2s²2p³

16 VIA

8

15.999

1.52

O

Oxygen

[He]2s²2p⁴

17 VIIA

9

18.998

1.47

F

Fluorine

[He]2s²2p⁵

18 VIIIA

10

20.180

1.54

Ne

Neon

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39.098

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Osmium

[Xe]4f¹⁴5d⁶6s²

77

192.217

2.13

Ir

Iridium

[Xe]4f¹⁴5d⁷6s²

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Pt

Platinum

[Xe]4f¹⁴5d⁹6s¹

79

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2.14

Au

Gold

[Xe]4f¹⁴5d¹⁰6s¹

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At

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[Xe]4f¹⁴5d¹⁰6s²6p⁵

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[223]

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Rutherfordium

[Rn]5f¹⁴6d²7s²

105

[268]

U

Db

Dubnium

[Rn]5f¹⁴6d³7s²

106

[269]

U

Sg

Seaborgium

[Rn]5f¹⁴6d⁴7s²

107

[270]

U

Bh

Bohrium

[Rn]5f¹⁴6d⁵7s²

108

[269]

U

Hs

Hassium

[Rn]5f¹⁴6d⁶7s²

109

[278]

U

Mt

Meitnerium

[Rn]5f¹⁴6d⁷7s²

110

[281]

U

Ds

Darmstadtium

[Rn]5f¹⁴6d⁹7s¹

111

[280]

U

Rg

Roentgenium

[Rn]5f¹⁴6d¹⁰7s¹

112

[285]

U

Cn

Copernicium

[Rn]5f¹⁴6d¹⁰7s²

113

[286]

U

Nh

Nihonium

[Rn]5f¹⁴6d¹⁰7s²7p¹

114

[289]

U

Fl

Flerovium

[Rn]5f¹⁴6d¹⁰7s²7p²

115

[289]

U

Mc

Moscovium

[Rn]5f¹⁴6d¹⁰7s²7p³

116

[293]

more info <https://www.rsc.org/periodic-table>
source and raw data at <https://gitlab.com/drFaustroll/periodic>