

Periodic Table of Elements

Group

1 IA

1

1-1

1.008

13.6

1.1

0.7542

H

Hydrogen

1s¹

2 IIA

3

1

6.94

5.392

1.82

0.618

Li

Lithium

[He]2s¹

4

2

9.012

9.323

1.53

0

Be

Beryllium

[He]2s²

13 IIIA

14 IVA

15 VA

16 VIA

17 VIIA

18 VIIIA

43

7

[98]

7.1194

2.16

0.55

Tc

Technetium

[Kr]4d⁵5s²

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

Transi-
tional
Metal

Non metal

Lan-
thanide

Alkaline
Earth
Metal

Post Trans
Metal

Halogen

Actinide

Metalloid

Noble gas

Unknown
properties

5

3

10.81

8.298

1.92

0.2797

B

Boron

[He]2s²2p¹

6

4

12.011

11.26

1.7

1.262

C

Carbon

[He]2s²2p²

7

3

14.007

14.53

1.55

0

N

Nitrogen

[He]2s²2p³

8

2

15.999

13.62

1.52

1.461

O

Oxygen

[He]2s²2p⁴

9

1

18.998

17.42

1.47

3.401

F

Fluorine

[He]2s²2p⁵

10

0

20.180

21.56

1.54

0

Ne

Neon

[He]2s²2p⁶

11

1

22.990

5.139

2.27

0.5479

Na

Sodium

[Ne]3s¹

12

2

24.305

7.646

1.73

0

Mg

Magnesium

[Ne]3s²

19

1

39.098

4.341

2.75

0.5015

K

Potassium

[Ar]4s¹

20

2

40.078

6.113

2.31

0.02455

Ca

Calcium

[Ar]4s²

21

3

44.956

6.561

2.15

0.188

Sc

Scandium

[Ar]3d¹4s²

22

4

47.867

6.828

2.11

0.079

Ti

Titanium

[Ar]3d²4s²

23

5

50.942

6.746

2.07

0.525

V

Vanadium

[Ar]3d³4s²

24

6

51.996

6.766

2.06

0.666

Cr

Chromium

[Ar]3d⁵4s¹

25

7

54.938

7.434

2.05

0

Mn

Manganese

[Ar]3d⁵4s²

26

8

55.845

7.902

2.04

0.151

Fe

Iron

[Ar]3d⁶4s²

27

9

58.933

7.881

2.0

0.662

Co

Cobalt

[Ar]3d⁷4s²

28

10

58.693

7.64

1.97

1.156

Ni

Nickel

[Ar]3d⁸4s²

29

11

63.546

7.726

1.96

1.235

Cu

Copper

[Ar]3d¹⁰4s¹

30

12

65.38

9.394

2.01

0

Zn

Zinc

[Ar]3d¹⁰4s²

31

13

69.723

5.999

1.87

0.43

Ga

Gallium

[Ar]3d¹⁰4s²4p¹

32

14

72.630

7.899

2.11

1.233

Ge

Germanium

[Ar]3d¹⁰4s²4p²

33

15

74.922

9.788

1.85

0.804

As

Arsenic

[Ar]3d¹⁰4s²4p³

34

16

78.971

9.752

1.9

2.021

Se

Selenium

[Ar]3d¹⁰4s²4p⁴

35

17

79.904

11.81

1.85

3.364

Br

Bromine

[Ar]3d¹⁰4s²4p⁵

36

18

83.798

14.0

2.02

0

Kr

Krypton

[Ar]3d¹⁰4s²4p⁶

37

1

85.468

4.177

3.03

0.4859

Rb

Rubidium

[Kr]5s¹

38

2

87.62

5.695

2.49

0.048

Sr

Strontium

[Kr]5s²

39

3

88.906

6.217

2.32

0.307

Y

Yttrium

[Kr]4d¹5s²

40

4

91.224

6.634

2.23

0.426

Zr

Zirconium

[Kr]4d²5s²

41

5

92.906

6.759

2.18

0.916

Nb

Niobium

[Kr]4d⁴5s¹

42

6

95.95

7.092

2.17

0.748

Mo

Molybdenum

[Kr]4d⁵5s¹

43

7

[98]

7.28

2.16

0.55

Tc

Technetium

[Kr]4d⁵5s²

44

8

101.07

7.36

2.13

1.05

Ru

Ruthenium

[Kr]4d⁷5s¹

45

9

102.906

7.459

2.1

1.137

Rh

Rhodium

[Kr]4d⁸5s¹

46

10

106.42

8.337

2.1

0.562

Pd

Palladium

[Kr]4d¹⁰

47

11

107.868

7.576

2.11

1.302

Ag

Silver

[Kr]4d¹⁰5s¹

48

12

112.414

8.994

2.18

0

Cd

Cadmium

[Kr]4d¹⁰5s²

49

13

114.818

5.786

1.93

0.2995

In

Indium