

Periodic Table of Elements

Group

1 IA

18 VIIIA

atomic number
relative atomic mass[Da]
atomic radius[Å]

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

Period

1 1.0081.1 1-1 13.60.7542 H Hydrogen 1s¹		2 4.0031.4 2 24.59 He Helium 1s²	
3 6.941.82 3 5.3920.618 Li Lithium [He]2s¹		4 9.0121.53 4 9.323 Be Beryllium [He]2s²	
11 22.9902.27 11 5.1390.5479 Na Sodium [Ne]3s¹		12 24.3051.73 12 7.646 Mg Magnesium [Ne]3s²	
19 39.0982.75 19 4.3410.5015 K Potassium [Ar]4s¹		20 40.0782.31 20 6.1130.02455 Ca Calcium [Ar]4s²	
37 85.4683.03 37 4.1770.4859 Rb Rubidium [Kr]5s¹		38 87.622.49 38 5.6950.048 Sr Strontium [Kr]5s²	
55 132.9053.43 55 3.8940.4716 Cs Caesium [Xe]6s¹		56 137.3272.68 56 5.2120.1446 Ba Barium [Xe]6s²	
87 [223]3.48 87 4.0730.46 Fr Francium [Rn]7s¹		88 [226]2.83 88 5.2780.1 Ra Radium [Rn]7s²	
103 [227]2.47 103 5.170.35 Ac Actinium [Rn]6d¹7s²		104 [227]2.45 104 6.307 Th Thorium [Rn]6d²7s²	
101 [237]2.43 101 5.89 Pa Protactinium [Rn]5f²6d¹7s²		102 [237]2.41 102 6.194 U Uranium [Rn]5f³6d¹7s²	
93 [237]2.39 93 6.5436.266 Np Neptunium [Rn]5f⁴6d¹7s²		94 [244]2.43 94 6.026 Pu Plutonium [Rn]5f⁶7s²	
95 [243]2.44 95 5.974 Am Americium [Rn]5f⁷7s²		96 [247]2.45 96 5.991 Cm Curium [Rn]5f⁷6d¹7s²	
97 [247]2.44 97 6.198 Bk Berkelium [Rn]5f⁹7s²		98 [251]2.45 98 6.282 Cf Californium [Rn]5f¹⁰7s²	
99 [252]2.45 99 6.42 Es Einsteinium [Rn]5f¹¹7s²		100 [257]2.45 100 6.5 Fm Fermium [Rn]5f¹²7s²	
101 [258]2.46 101 6.58 Md Mendelevium [Rn]5f¹³7s²		102 [259]2.46 102 6.65 No Nobelium [Rn]5f¹⁴7s²	
103 [262]2.46 103 4.9 Lr Lawrencium [Rn]5f¹⁴7s²7p¹			

1

1-1

1.0081.1

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H

Hydrogen

1s¹

2

4.0031.4

2

24.59

He

Helium

1s²

3

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Li

Lithium

[He]2s¹

4

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Be

Beryllium

[He]2s²

11

22.9902.27

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Na

Sodium

[Ne]3s¹

12

24.3051.73

12

7.646

Mg

Magnesium

[Ne]3s²

19

39.0982.75

19

4.3410.5015

K

Potassium

[Ar]4s¹

20

40.0782.31

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Ca

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[Ar]4s²

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Rb

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[Kr]5s¹

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Sr

Strontium

[Kr]5s²

55

132.9053.43

55

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Cs

Caesium

[Xe]6s¹

56

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Barium

[Xe]6s²

87

[223]3.48

87

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Fr

Francium

[Rn]7s¹

88

[226]2.83

88

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[Rn]7s²

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Ac

Actinium

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[Rn]5f²6d¹7s²

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[237]2.41

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U

Uranium

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Np

Neptunium

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94

[244]2.43

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Americium

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