

PERIODIC TABLE OF THE ELEMENTS

GROUP

1 **IA**

1

1.0079
1s¹
H
HYDROGEN

2 **IIA**

3 **III B**

4 **IV B**

5 **VB**

6 **VIB**

7 **VII B**

8 **VIII B**

9

10

11 **IB**

12 **IIB**

13 **IIIA**

14 **IVA**

15 **VA**

16 **VIA**

17 **VII A**

18 **VIII A**

18

FAMILY

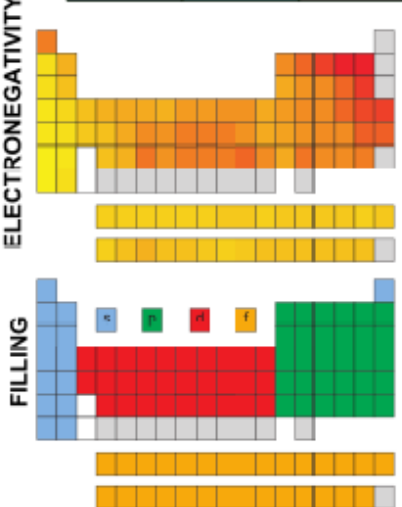
Metal	Metalloids	Non-metal
Alkaline metals	Chalcogens	
Alkaline earth metals	Halogens	
Transition metals	Noble gases	
Lanthanides		
Actinides		

Physical State (100°C, 101kPa)
 He - gas Fe - solid
 Hg - liquid Tc - Man-made

RELATIVE ATOMIC MASS (g.mol⁻¹)
ATOMIC NUMBER
ELECTRON CONFIGURATION⁽³⁾
ATOMIC SYMBOL
ELEMENT NAME

78	195.084	[Xe] 4f ¹⁴ 5d ⁹ 6s ¹	Pt PLATINUM
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7 **Fr** **Ra** **89-103** **104** **105** **106** **107** **108** **109** **110** **111** **112** **113** **114** **115** **116** **117** **118**



LANTHANIDES

57 138.905 [Xe] 5d ¹ 6s ² La LANTHANUM	58 140.116 [Xe] 4f ¹ 5d ¹ 6s ² Ce CERIUM	59 140.908 [Xe] 4f ¹ 5s ² Pr PRASEODYMIUM	60 144.242 [Xe] 4f ¹ 6s ² Nd NEODYMIUM	61 (145) [Xe] 4f ¹ 6s ² Pm PROMETHIUM	62 150.36(2) [Xe] 4f ¹ 6s ² Sm SAMARIUM	63 151.964 [Xe] 4f ¹ 6s ² Eu EUROPIUM	64 157.25(3) [Xe] 4f ¹ 5d ¹ 6s ² Gd GADOLINIUM	65 158.925 [Xe] 4f ¹ 6s ² Tb TERBIUM	66 152.500 [Xe] 4f ¹ 6s ² Dy DYSPROSIUM	67 164.930 [Xe] 4f ¹ 6s ² Ho HOLMIUM	68 167.259 [Xe] 4f ¹ 6s ² Er ERBIUM	69 168.934 [Xe] 4f ¹ 6s ² Tm THULIUM	70 173.04(3) [Xe] 4f ¹ 6s ² Yb YTTERIUM	71 175 [Xe] 4f ¹ 6s ² Lu LUTETIUM
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ACTINIDES

89 (227) [Rn] 6d ¹ 7s ² Ac ACTINIUM	90 232.038 [Rn] 6d ¹ 7s ² Th THORIUM	91 231.036 [Rn] 5f ¹ 6d ¹ 7s ² Pa PROTACTINIUM	92 238.029 [Rn] 5f ¹ 6d ¹ 7s ² U URANIUM	93 (237) [Rn] 5f ¹ 6d ¹ 7s ² Np NEPTUNIUM	94 (244) [Rn] 5f ¹ 7s ² Pu PLUTONIUM	95 (243) [Rn] 5f ¹ 7s ² Am AMERICIUM	96 (247) [Rn] 5f ¹ 6d ¹ 7s ² Cm CURIUM	97 (247) [Rn] 5f ¹ 7s ² Bk BERKELIUM	98 (251) [Rn] 5f ¹ 7s ² Cf CALIFORNIUM	99 (252) [Rn] 5f ¹ 7s ² Es EINSTEINIUM	100 (257) [Rn] 5f ¹ 7s ² Fm FERMIUM	101 (258) [Rn] 5f ¹ 7s ² Md MENDELEVIUM	102 (259) [Rn] 5f ¹ 7s ² No NOBELIUM	103 [Rn] 5f ¹ 7s ² Lr LAWRENCEIUM
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(2) The relative atomic mass is given with five significant digits. For items that do not have a stable radionuclide, the value in parentheses indicates the mass number of the isotope of the element with the longest half-life. However, the three elements Th, Pa and Pu which have a characteristic terrestrial isotopic composition, an atomic weight is indicated.

(3) The electronic configurations for which there is doubt are not given.

(1) Pure & Applied Chemistry, No. 11, pp. 2051-2066

<http://www.iupac.org/publications/pac/2006/pdf/7811x2>

IIIA

4.0026
 s^2
Li
LITHIUM

20.180
 $2s^2 2p^6$
Be
BERYLLIUM

39.948
 $1s^2 3p^6$
B
BORON

83.790
 $3s^2 4p^1$
K
POTASSIUM

31.293
 $4s^2 5p^1$
Rb
RUBIDIUM

(222)
 $4d^7 6s^2 6p^1$
Fr
FRANCIUM

(294)
U
URANIUM

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051.pdf

74.967
 $4s^2 6s^2$
U
URANIUM

(262)
Lr
LAWRENCIUM