

2 He helium	1- 10 Ne ne neon 4.0 20.18	Ar argon	Kr krypton	Xe xenon	1- 86 t Rn ine radon	Uuo ununoctium [294]
7	ᄔᄫ	2- 17 1- 18 CI A r chlorine and 2.5 35.45 3.0 39.95	Br 1-36	53 1-54 	N A stat	Uus ununseptium
16	0 2- 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Se selenium bro	52 2-53 Tellurium ii	2.1 C ium	116 Uuh ununhexium [293]
15	7 3-8 N nitrogen 14.01 3.0	i P 3-16 i P S on phosphorus sulfi 1.8 30.97 2.1 32.07	As arsenic se	51 3+,5+ 52 Sb Sb antimony te	83 3+,5+ Bi bismuth	Uup ununpentium [288]
4	C N 3-8 C N 3-8 C N Carbon nitrogen oxy	Si Silicon	32 4+ 33 Ge /	3+ 50 4+,2+ 51 Sh tin an	82 2+,4+ Pb	Uuq ununquadium [289]
5	B boron	Al Silic Bluminum Silic 26.98 1.5 28.09	31 3+ 32 4+ 33 3- 34 2- 35 1- Ga Ge As Se Br gallium germanium arsenic selenium bromine	16 52 00 16 54.94 15 55.85 18 58.93 1.8 58.69 1.8 63.55 1.9 65.41 1.6 69.72 1.6 12.64 1.8 14.32 2.0 18.90 2.9 12.9 12.9 12.9 12.9 12.9 12.9 12.9	1.2 91.22 1.4 92.91 1.6 95.94 1.8 [98] 1.9 101.07 2.2 102.91 2.2 106.4 2.2 107.87 1.9 114.82 1.7 114.82 1.7 114.82 1.7 114.81 1.6 11.7 1.8 121.78 1.9 1.2 1.7 1.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	113 Uut ununtrium [284]
nt	,	5	30 2+ 31 C Zn G	65.41 7.6 69.72 7.4 48 2+ 49 3 Cd In	11241 1.7 80 2+,1+ Hg mercury	112 Cn copernicium [285]
e non first) of Eleme	gativity	-	28 2+,3+ 29 2+,1+ 30 Ni Cu	Ag (5.47 Ag (5.48 Silver cac	Au gold	111 Rg roentgenium
lon Charge (most common first) · Symbol of Element	Electronegativity	10	Nickel	42 0+ 43 7+ 44 3+4+ 45 3+46 2+4+ 47 11	78 4+,2+ Pt platinum	110 DS darmstadtium [281]
	Ĩ	σ	27 2+,3+ 28 CO Niclosopalt niclosopalt	45 3+ 45 3+ 1.8 ERh	17 4+ 17 4+ Iridium	109 109 Mt meitnerium
-2	3.5	α	Fe 3+,2+ 27	7+ 44 3+,4+ 45 RU RU RU RUHENIUM RHO	76 4+ 77 OS Osmium ir	190.23 2.2 108 HS hassium [277]
8	16.00	1	Mn F Manganese iii	54.94 7.5 5 43 7+4 TC	Re Crimenium osr	107 Bh bohrium
Ī	Ţ	ď	Cr 25 Cr 25 Chromium ma	22.00 1.6 54.94 42 6+ 43 MO T	15.94	Sg seaborgium [271]
Number	Atomic Mass	ĸ	23 5+,4+ 24 Vanadium chi	V	Hf Ta W Rehimm tangent the factor of the fac	105 105 Db dubnium [268]
Atomic Number	Atol	_	22 4+,3+ 2 T Tittanium	. I N 3	Hf hafnium	178 49 1.3 104 Rf rutherfordium [267]
		c	21 3+ 22 4+3+ 23 5+4+ 24 3+2+ 25 2+4+ Sc Ti V Cr Mn scandium chromium manganese	39 3+ 40 Y	74 3+ 72 71	178 gr 1.1 178 49 1.3 180 56 1.5 183 84 1.7 186 21 1.9 180 22 22 185 28 2.2 185 89 7.2 185 97 2.4 2013 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
c	Be beryllium	Mg nagnesium				
Hydrogen	Li 1+1	# m #	K 1+2	Rb - +	55.47 0.8 87.52 1.0 55 1+ 56 2+ CS Ba cesium barium	F H I
t yh	E 28	= =====================================	6 0	39.1	55	132 87 fra [223

Pr Nd Pm Sm Eu Gd Tb 8 codymium neodymium promethium promet	-	3+59 3+	3+ 60 3+	61 3+	62 3+,2+	63 3+,2+	64 3+	65 3+	99	67 3+	3+68 3+	69 3+	70 3+,2+
prasecod 140.91	La	Pr	PZ	Pm	Sm	En	gg	Tp	D	웃	ш	H	γ
140.91 91 Protac	thanum cerium	praseod	neodymium	promethium	samarium	europium	gadolinium	terbium	dysprosium	holmium	erbinm	thulium	ytterbium
Th Pa U	7.1 140 12 7.	140.91	144.24 1.1	[145] 1.1	150.36 1.1	151.96 1.1	157.25 1.1	158.93 1.1	1.1 162.50 1.1 164.93 1.1 167.26	164.93 1.1	167.26 1.1	168.93 1.1	173.04 1.1
Th Pa U	2+ 90	+ 91 5+4+	92 6+,4+	93 5+	94 4+,6+	95 3+,4+	96 3+	97 3+,4+	98 3+	99 3+	100 3+	101 2+,3+	+ 101 2+,3+ 102 2+,3+
thorium protactinium uranium	Ac Th	Ра	\supset	dN	Pu	Am	CB	K	ŭ	Es	Fm	Md	9
	tinium thorium		uranium	neptunium	plutonium	americium	curium	berkelium	lium californium einste	einsteinium	steinium fermium	mendelevium	nobelium
232 04 1.3 231 04 1.5 238 03 1.7 [237] 1.3	1.1 232.04 1.	3 231 04 1.5	238.03 1.7	[237] 1.3	[244] 1.3	[243] 1.3	[247] 1.3	[247] 1.3	[251] 1.3	[252] 7.3	[257] 1.3	1.3 [258] 1.3 [259]	[259] 1.3