

Elements Without Any Stable Isotopes

1 H 1776 1.008																	2 He 1895 4.003
3 Li 1817 6.941	4 Be 1797 9.012	atomic number Symbol year discovered atomic mass g mol ⁻¹										5 B 1808 10.81	6 C 1694 12.01	7 N 1772 14.01	8 O 1774 16.00	9 F 1886 19.00	10 Ne 1898 20.18
11 Na 1807 22.99	12 Mg 1755 24.30											13 Al 1825 26.98	14 Si 1824 28.09	15 P 1669 30.97	16 S <1600 32.06	17 Cl 1774 35.45	18 Ar 1894 39.95
19 K 1807 39.10	20 Ca 1808 40.08	21 Sc 1879 44.96	22 Ti 1791 47.87	23 V 1830 50.94	24 Cr 1797 52.00	25 Mn 1774 54.94	26 Fe <1600 55.84	27 Co 1735 58.93	28 Ni 1751 58.69	29 Cu <1600 63.55	30 Zn <1600 65.41	31 Ga 1875 69.72	32 Ge 1886 72.64	33 As <1600 74.92	34 Se 1817 78.96	35 Br 1826 79.90	36 Kr 1898 83.80
37 Rb 1861 85.47	38 Sr 1790 87.62	39 Y 1794 88.91	40 Zr 1789 91.22	41 Nb 1801 92.91	42 Mo 1781 95.94	43 Tc 1937 97.91	44 Ru 1844 101.1	45 Rh 1803 102.9	46 Pd 1803 106.4	47 Ag <1600 107.9	48 Cd 1817 112.4	49 In 1863 114.8	50 Sn <1600 118.7	51 Sb <1600 121.8	52 Te 1783 127.6	53 I 1811 126.9	54 Xe 1898 131.3
55 Cs 1860 132.9	56 Ba 1808 137.3	57 La 1839 138.9	72 Hf 1923 178.5	73 Ta 1802 180.9	74 W 1783 183.8	75 Re 1925 186.2	76 Os 1803 190.2	77 Ir 1803 192.2	78 Pt 1735 195.1	79 Au <1600 197.0	80 Hg <1600 200.6	81 Tl 1861 204.4	82 Pb <1600 207.2	83 Bi <1600 209.0	84 Po 1898 209.0	85 At 1940 210.0	86 Rn 1900 222.0
87 Fr 1939 223.0	88 Ra 1898 226.0	89 Ac 1899 227.0	104 Rf 1964 [261]	105 Db 1967 [262]	106 Sg 1974 [266]	107 Bh 1981 [264]	108 Hs 1984 [277]	109 Mt 1982 [268]	110 Ds 1994 [271]	111 Rg 1994 [272]	112 Cn 1996 [285]	113 Uut 2004	114 Fl 1998	115 Uup 2004	116 Lv 2001	117 Uus 2009	118 Uuo 2006

58 Ce 1803 140.1	59 Pr 1885 140.9	60 Nd 1885 144.2	61 Pm 1945 144.9	62 Sm 1879 150.4	63 Eu 1901 152.0	64 Gd 1880 157.2	65 Tb 1843 158.9	66 Dy 1886 162.5	67 Ho 1867 164.9	68 Er 1842 167.3	69 Tm 1879 168.9	70 Yb 1878 173.0	71 Lu 1907 175.0
90 Th 1829 232.0	91 Pa 1913 231.0	92 U 1789 238.0	93 Np 1940 [237]	94 Pu 1940 [244]	95 Am 1944 [243]	96 Cm 1944 [247]	97 Bk 1949 [247]	98 Cf 1950 [251]	99 Es 1952 [252]	100 Fm 1952 [257]	101 Md 1955 [258]	102 No 1958 [259]	103 Lr 1961 [262]