ChemGlobe - Periodic table of elements

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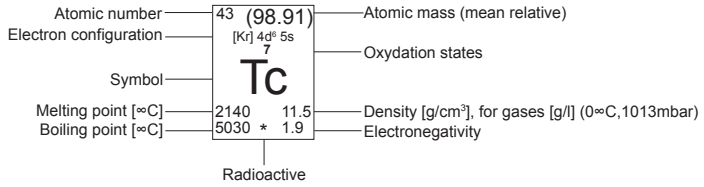

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	1A	2A	3A	4A	5A	6A	7A	8	8	8	1B	2B	3B	4B	5B	6B	7B	0
1	1 H 1.01 1s 1,-1 -259 0.09 -253 2.1																	2 He 4.00 1s² - 018 -269 -
2	3 Li 6.94 [He] 2s¹ 1 181 0.53 1330 1.0	4 Be 9.01 [He] 2s² 2 1277 1.85 2970 1.5											5 B 10.81 [He] 2s² 2p¹ 3 (2030) 2.35 2550 2.0	6 C 12.01 [He] 2s² 2p² 4,2,-4 (3550) 2.2 4830 2.5	7 N 14.01 [He] 2s² 2p³ 5,4,3,2,-3 -210 1.25 -196 3.0	8 O 16.00 [He] 2s² 2p⁴ -2,-1 -219 1.43 -183 3.5	9 F 19.00 [He] 2s² 2p⁵ -1 -220 1.7 -188 4.0	10 Ne 20.18 [He] 2s² 2p⁶ -249 0.9 -246 -
3	11 Na 22.99 [Ne] 3s¹ 1 98 0.97 892 0.9	12 Mg 24.31 [Ne] 3s² 2 650 1.74 1107 1.2											13 Al 26.98 [Ne] 3s² 3p¹ 3 660 2.70 2450 1.5	14 Si 28.09 [Ne] 3s² 3p² 4,-4 1410 2.33 2680 1.8	15 P 30.97 [Ne] 3s² 3p³ 5,3,-3 44 1.82 280 2.1	16 S 32.06 [Ne] 3s² 3p⁴ 6,4,2,-2 119 2.07 445 2.5	17 Cl 35.45 [Ne] 3s² 3p⁵ 7,5,3,1,-1 -101 3.2 -35 3.0	18 Ar 39.95 [Ne] 3s² 3p⁶ -189 1.78 -183 -
4	19 K 39.10 [Ar] 4s¹ 1 64 0.86 760 0.8	20 Ca 40.08 [Ar] 4s² 2 838 1.55 1440 1.0	21 Sc 44.96 [Ar] 3d 4s² 3 1539 3.0 2730 1.3	22 Ti 47.88 [Ar] 3d² 4s² 4,3 1668 4.54 3260 1.5	23 V 50.94 [Ar] 3d³ 4s² 5,4,3,2,0 1900 6.1 3450 1.5	24 Cr 52.00 [Ar] 3d⁵ 4s 6,3,2,0 1875 7.19 2200 1.6	25 Mn 54.94 [Ar] 3d⁵ 4s² 7,6,4,3,2,0,-1 1245 7.43 2097 1.5	26 Fe 55.85 [Ar] 3d⁶ 4s² 6,3,2,0,-2 1536 7.86 3000 1.8	27 Co 58.93 [Ar] 3d⁷ 4s² 3,2,0,-1 1495 8.9 2900 1.9	28 Ni 58.70 [Ar] 3d⁸ 4s² 3,2,0 1453 8.9 2730 1.9	29 Cu 63.55 [Ar] 3d¹⁰ 4s 2,1 1083 8.96 2595 1.9	30 Zn 65.38 [Ar] 3d¹⁰ 4s² 2 420 7.13 906 1.6	31 Ga 69.72 [Ar] 3d¹⁰ 4s² 4p¹ 3 30 5.91 2237 1.6	32 Ge 72.59 [Ar] 3d¹⁰ 4s² 4p² 4 937 5.32 2830 1.8	33 As 74.91 [Ar] 3d¹⁰ 4s² 4p³ 5,3,-3 Subl. 5.72 - 2.0	34 Se 78.96 [Ar] 3d¹⁰ 4s² 4p⁴ 6,4,-2 217 4.79 685 2.4	35 Br 79.90 [Ar] 3d¹⁰ 4s² 4p⁵ 7,5,3,1,-1 -7 3.12 58 2.8	36 Kr 83.80 [Ar] 3d¹⁰ 4s² 4p⁶ -157 3.7 -152 -
5	37 Rb 85.47 [Kr] 5s¹ 1 39 1.53 688 0.8	38 Sr 87.62 [Kr] 5s² 2 768 2.6 1380 1.0	39 Y 88.91 [Kr] 4d 5s² 3 1509 4.47 2927 1.2	40 Zr 91.22 [Kr] 4d² 5s² 4 1852 6.49 3580 1.4	41 Nb 92.92 [Kr] 4d⁴ 5s 5,3 2468 8.57 4927 1.6	42 Mo 95.94 [Kr] 4d⁵ 5s 6,5,4,3,2,0 2610 10.2 5560 1.8	43 Tc (98.91) [Kr] 4d⁶ 5s 7 2140 11.5 5030 * 1.9	44 Ru 101.07 [Kr] 4d⁷ 5s 8,6,4,3,2,0,-2 2500 12.4 3900 2.2	45 Rh 102.91 [Kr] 4d⁸ 5s 5,4,3,1,2,0 1966 12.4 3730 2.2	46 Pd 106.42 [Kr] 4d¹⁰ 4,2,0 1552 12.0 3140 2.2	47 Ag 107.87 [Kr] 4d¹⁰ 5s 2,1 961 10.5 2210 1.9	48 Cd 112.41 [Kr] 4d¹⁰ 5s² 2 321 8.65 765 1.7	49 In 114.82 [Kr] 4d¹⁰ 5s² 5p¹ 3 156 7.31 2080 1.7	50 Sn 118.69 [Kr] 4d¹⁰ 5s² 5p² 4,2 232 7.30 2270 1.8	51 Sb 121.75 [Kr] 4d¹⁰ 5s² 5p³ 5,3,-3 631 6.69 1380 1.9	52 Te 127.60 [Kr] 4d¹⁰ 5s² 5p⁴ 6,4,-2 450 6.24 990 2.1	53 I 126.90 [Kr] 4d¹⁰ 5s² 5p⁵ 7,5,1,-1 114 4.94 183 2.5	54 Xe 131.29 [Kr] 4d¹⁰ 5s² 5p⁶ -112 5.89 -108 -
6	55 Cs 132.91 [Xe] 6s¹ 1 29 1.90 690 0.7	56 Ba 137.33 [Xe] 6s² 2 714 3.76 1640 0.9	71 Lu 174.97 [Xe] 4f¹⁴ 5d¹ 6s² 3 1652 9.84 3327 1.2	72 Hf 178.49 [Xe] 4f¹⁴ 5d² 6s² 4 2222 13.31 5400 1.3	73 Ta 180.95 [Xe] 4f¹⁴ 5d³ 6s² 5 2996 16.5 5425 1.5	74 W 183.85 [Xe] 4f¹⁴ 5d⁴ 6s² 6,5,4,3,2,0 3410 19.3 5930 1.7	75 Re 186.21 [Xe] 4f¹⁴ 5d⁵ 6s² 7,6,4,2,-1 3180 21.0 5900 1.9	76 Os 190.20 [Xe] 4f¹⁴ 5d⁶ 6s² 8,6,4,3,2,0,-2 3050 22.6 5500 2.2	77 Ir 192.22 [Xe] 4f¹⁴ 5d⁷ 6s² 6,4,3,2,1,0,-1 2454 22.7 4500 2.2	78 Pt 195.08 [Xe] 4f¹⁴ 5d⁹ 6s 4,2,0 1769 21.4 3830 2.2	79 Au 196.97 [Xe] 4f¹⁴ 5d¹⁰ 6s 3,1 1063 19.3 2970 2.4	80 Hg 200.59 [Xe] 4f¹⁴ 5d¹⁰ 6s² 2,1 -38 13.6 357 1.9	81 Tl 204.38 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p¹ 3,1 303 11.85 1457 1.8	82 Pb 207.20 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p² 4,2 327 11.4 1725 1.9	83 Bi 208.98 [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p³ 5,3 271 9.8 1560 1.9	84 Po (209) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁴ 6,4,2 254 9.3 962 * 2.0	85 At (210) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁵ 7,5,3,1,-1 (302) - 337 * 2.2	86 Rn (222) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁶ (-71) 9.73 -62 * -
7	87 Fr (223.0) [Rn] 7s¹ 1 (27) - 677 * 0.7	88 Ra 226.03 [Rn] 7s² 2 700 5.0 1140 * 0.9	103 Lr (262.1) [Rn] 5f¹⁴ 6d¹ 7s² 3 - - - * -	104 Rf (261.1) [Rn] 5f¹⁴ 6d² 7s² - - - * -	105 Db (262.1) [Rn] 5f¹⁴ 6d³ 7s² - - - * -	106 Sg (263.1) [Rn] 5f¹⁴ 6d⁴ 7s² - - - * -	107 Bh (264.1) [Rn] 5f¹⁴ 6d⁵ 7s² - - - * -	108 Hs (265.1) [Rn] 5f¹⁴ 6d⁶ 7s² - - - * -	109 Mt (268) [Rn] 5f¹⁴ 6d⁷ 7s² - - - * -	110 Uun (269) [Rn] 5f¹⁴ 6d⁹ 7s - - - * -	111 Uuu (272) [Rn] 5f¹⁴ 6d¹⁰ 7s - - - * -	112 Uub (277) - - - * -		114 Uuq (289) - - - * -		116 Uuh (289) - - - * -		118 Uuo (293) - - - * -

6	Lanthanoids	57 La 138.91 [Xe] 5d¹ 6s² 3 920 6.17 3470 1.1	58 Ce 140.12 [Xe] 4f² 6s² 4,3 795 6.67 3468 1.1	59 Pr 140.91 [Xe] 4f³ 6s² 4,3 935 6.77 3127 1.1	60 Nd 144.24 [Xe] 4f⁴ 6s² 3 1024 7.00 3027 1.2	61 Pm (145) [Xe] 4f⁵ 6s² 3 (1027) 7.22 2460 * -	62 Sm 150.36 [Xe] 4f⁶ 6s² 3,2 1072 7.54 1790 1.2	63 Eu 151.96 [Xe] 4f⁷ 6s² 3,2 828 5.26 1439 -	64 Gd 157.25 [Xe] 4f⁷ 5d¹ 6s² 3 1312 7.89 3000 1.1	65 Tb 158.93 [Xe] 4f⁹ 6s² 4,3 1356 8.27 2800 1.2	66 Dy 162.50 [Xe] 4f¹⁰ 6s² 3 1407 8.54 2600 -	67 Ho 164.93 [Xe] 4f¹¹ 6s² 3 1461 8.80 2600 1.2	68 Er 167.26 [Xe] 4f¹² 6s² 3 1497 9.05 2900 1.2	69 Tm 168.93 [Xe] 4f¹³ 6s² 3,2 1545 9.33 1727 1.2	70 Yb 173.04 [Xe] 4f¹⁴ 6s² 3,2 824 6.98 1196 1.1
7	Actinoids	89 Ac (227) [Rn] 6d¹ 7s² 3 1050 10.1 - * 1.1	90 Th 232.04 [Rn] 6d² 7s² 4 1750 11.7 3850 * 1.3	91 Pa 231.04 [Rn] 5f² 6d¹ 7s² 5,4 (1230 15.4 - * 1.4	92 U 238.03 [Rn] 5f³ 6d¹ 7s² 6,5,4,3 1132 19.07 3818 * 1.4	93 Np (237.05) [Rn] 5f⁴ 6d¹ 7s² 6,5,4,3 637 19.5 3900 * 1.3	94 Pu (244) [Rn] 5f⁶ 7s² 6,5,4,3 640 19.81 3235 * 1.3	95 Am (243) [Rn] 5f⁷ 7s² 6,5,4,3 994 13.7 - * 1.3	96 Cm (247) [Rn] 5f⁷ 6d¹ 7s² 4,3 (1340) 13.51 3100 * -	97 Bk (247) [Rn] 5f⁹ 7s² 4,3 - - - * -	98 Cf (251) [Rn] 5f¹⁰ 7s² 4,3 - - - * -	99 Es (254) [Rn] 5f¹¹ 7s² 3 - - - * -	100 Fm (257) [Rn] 5f¹² 7s² 3 - - - * -	101 Md (258) [Rn] 5f¹³ 7s² 3 - - - * -	102 No (259) [Rn] 5f¹⁴ 7s² 3,2 - - - * -

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ChemGlobe

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Thank you

This printable “ChemGlobe - Periodic Table of the Elements” file is based on the original work of Nick Donati. He gave the source file as a present to the ChemGlobe website. The file was then modified and adjusted to the layout and content of the ChemGlobe website. Nick Donati can be reached by visiting his website at http://ohmu.ch/.

Many mistakes on this file have been corrected in the meantime, thanks to error reports.

Thank you very much!

Updates

For updates to this printable version of the periodic table, visit http://partisans.spurious.biz/~pkremer/projects/chemglobe/ptoe/. This file dates June 16th 2005.

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