

Periodic Table of the Elements



MAIN GROUP ELEMENTS	
I	2
IA	IIA

1	H 1.0079 -259 0.071 -253 -1.1
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Atomic number — I

Element symbol — **H**

Atomic weight (referred to ¹²C) — 1.0079

Melting point (°C) — 259 | 0.071

Boiling point (°C) — 253 | -1.1

Electronic configuration — 1s¹

1	H 1.0079 -259 0.071 -253 -1.1
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Density (g/ml)**

Oxidation states

METAL
SEMIMETAL
NON-METAL
H Gaseous
Li Solid
Br Liquid

MAIN GROUP ELEMENTS						
13	14	15	16	17	18	
IIIA	IVA	VA	VI A	VII A	VIII A	

2	He 4.0026 -272 0.178 -269
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3	Li 6.941 180 0.53 1342 1	4	Be 9.01218 1278 1.85 2970 2
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11	Na 22.98977 98 0.97 883 1	12	Mg 24.305 649 1.74 1090 2
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TRANSITION ELEMENTS

3	4	5	6	7	8	9	10	11	12																										
III B	IV B	V B	VI B	VII B	VIII			IB	II B																										
19	K 39.0983 63 0.86 1184 1	20	Ca 40.08 839 1.55 1484 2	21	Sc 44.9559 47.88	22	Ti 47.88 1539 3.0 2832 3	23	V 50.9414 47.88	24	Cr 51.996 1640 4.51 2832 3	25	Mn 54.938 1871 1.9 2832 3	26	Fe 55.847 1871 1.9 2832 3	27	Co 58.9332 1871 1.9 2832 3	28	Ni 58.69 1455 8.9 2732 3	29	Cu 63.546 1063 8.96 2567 1.2	30	Zn 65.38 1455 8.96 2732 3	31	Ga 69.72 2079 2.34 2550 3	32	Ge 72.59 4627 5.42 -196 23.45	33	As 74.9216 -210 0.81 -183 -1.2	34	Se 78.96 220 1.505 -188 -1	35	Br 79.904 -101 1.56 -188 -1	36	Kr 83.80 35 213.57

37	Rb 85.4678 39 1.53 686 1	38	Sr 87.62 839 1.55 1484 2	39	Y 88.9059 47.88	40	Zr 91.22 1539 3.0 2832 3	41	Nb 92.9064 1871 1.9 2832 3	42	Mo 95.94 1640 4.51 2832 3	43	Tc 98 1871 1.9 2832 3	44	Ru 101.07 1455 8.9 2732 3	45	Rh 102.9055 106.42	46	Pd 107.868 106.42	47	Ag 112.41 1063 8.96 2567 1.2	48	Cd 112.41 1455 8.96 2732 3	49	In 114.82 2079 2.34 2550 3	50	Sn 118.69 4627 5.42 -196 23.45	51	Sb 121.75 -210 0.81 -183 -1.2	52	Te 127.60 220 1.505 -188 -1	53	I 126.9045 -101 1.56 -188 -1	54	Xe 131.29 35 213.57
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55	Cs 132.9054 21 1.87 686 1	56	Ba 137.33 839 1.55 1484 2	57	La 138.9055 47.88	58	Hf 178.49 1539 3.0 2832 3	59	Ta 180.9479 1871 1.9 2832 3	60	W 183.85 1640 4.51 2832 3	61	Re 186.207 1871 1.9 2832 3	62	Os 190.2 1455 8.9 2732 3	63	Ir 192.22 106.42	64	Pt 195.08 106.42	65	Au 196.9665 106.42	66	Hg 200.59 -210 0.81 -183 -1.2	67	Tl 204.383 2079 2.34 2550 3	68	Pb 207.2 4627 5.42 -196 23.45	69	Bi 208.9804 -210 0.81 -183 -1.2	70	Po (209)	71	At (210)	72	Rn (222)
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87	Fr (223)	88	Ra 226.0254 (223)	89	Ac 227.0278 (223)	90	Th 232.0381 1750 11.7 -4790 4	91	Pa 231.0369 15.4 14.5	92	U 238.0289 19.2 13.6	93	Np 237.0482 19.2 13.6	94	Pu 244 19.2 13.6	95	Am (243)	96	Cm (247)	97	Bk (247)	98	Cf (251)	99	Es (254)	100	Fm (257)	101	Md (257)	102	No (259)	103	Lr (262)
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Lanthanide Elements																											
58	Ce 140.12 799 6.67 3426 3	59	Pr 140.9077 931 6.77 3512 3.4	60	Nd 144.24 1021 7.00 3068 3	61	Pm (145)	62	Sm 150.36 1077 7.54 1791 2.3	63	Eu 151.96 822 5.26 1597 2.3	64	Gd 157.25 1313 7.89 3123 3.4	65	Tb 158.9254 1356 8.27 3265 3	66	Dy 162.50 1412 8.54 2562 3	67	Ho 164.9304 1474 8.80 2695 3	68	Er 167.26 1522 8.83 2863 3	69	Tm 168.9342 1545 9.33 1947 2.3	70	Yb 173.04 819 6.98 1194 2.3	71	Lu 174.967 1663 9.84 3395 3

Actinide Elements																											
90	Th 232.0381 1750 11.7 -4790 4	91	Pa 231.0369 15.4 14.5	92	U 238.0289 19.2 13.6	93	Np 237.0482 19.2 13.6	94	Pu 244 19.2 13.6	95	Am (243)	96	Cm (247)	97	Bk (247)	98	Cf (251)	99	Es (254)	100	Fm (257)	101	Md (257)	102	No (259)	103	Lr (262)

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* All isotopes are radioactive
** IUPAC recommendation
*** For gas, this value is referred to liquid at boiling point