

PERIODIC TABLE OF THE ELEMENTS

Table of Selected Radioactive Isotopes

GROUP IA

1	1.0079
20.268 14.025 0.0899*	H
	¹ s Hydrogen

IIA

3	6.941	4	9.01218
1615 453.7 0.53	Li	2745 1560 1.85	Be
	¹ s ² s Lithium		¹ s ² s ² Beryllium

11	22.98977	12	24.305
1156 371.0 0.97	Na	1363 922 1.74	Mg
	¹ (Ne)3s Sodium		¹ (Ne)3s ² Magnesium

IIIA

19	39.0983	20	40.08
1032 336.35 0.86	K	1757 1112 1.55	Ca
	¹ (Ar)4s Potassium		¹ (Ar)4s ² Calcium

IVB

21	44.9559	22	47.90
3104 1812 3.0	Sc	3562 1943 1.54	Ti
	¹ (Ar)3d ⁴ s Scandium		¹ (Ar)3d ² Titanium

VB

23	50.9415	24	51.996
3682 2175 5.4, 3.2	V	2945 2130 7.19	Cr
	¹ (Ar)3d ³ Vanadium		¹ (Ar)3d ⁵ Chromium

VIB

25	54.9380	26	55.847
3135 1517 7.86	Mn	2335 1809 7.43	Fe
	¹ (Ar)3d ⁵ Manganese		¹ (Ar)3d ⁶ Iron

VIIA

27	58.9332	28	58.70
3167 1768 8.90	Co	3187 1726 8.90	Ni
	¹ (Ar)3d ⁷ Cobalt		¹ (Ar)3d ⁸ Nickel

VIIIA

29	63.546	30	65.38
2836 1357.6 8.96	Cu	1180 692.73 7.14	Zn
	¹ (Ar)3d ¹⁰ Copper		¹ (Ar)3d ¹⁰ Zinc

VIIIA

31	69.72	32	72.59
2478 302.90 5.91	Ga	2478 121.04 5.32	Ge
	¹ (Ar)3d ¹⁰ Gallium		¹ (Ar)3d ¹⁰ Germanium

VIIIA

33	74.9216	34	78.96
876 (base) 1081 (200 min) 5.72	As	958 494 4.80	Se
	¹ (Ar)3d ¹⁰ Arsenic		¹ (Ar)3d ¹⁰ Selenium

VIIIA

35	79.904	36	83.80
332.25 265.90 3.12	Br	332.25 265.90 3.12	Kr
	¹ (Ar)3d ¹⁰ Bromine		¹ (Ar)3d ¹⁰ Krypton

VIIIA

37	85.4678	38	87.62
961 312.64 1.53	Rb	3611 1041 4.5	Sr
	¹ (Kr)4d ⁵ Rubidium		¹ (Kr)4d ⁵ Strontium

VIIIA

39	88.9059	40	91.22
4682 2740 6.49	Y	5017 102 8.55	Zr
	¹ (Kr)4d ⁵ Yttrium		¹ (Kr)4d ⁵ Zirconium

VIIIA

41	92.9064	42	95.94
4912 2780 10.2	Nb	4538 2473 11.5	Mo
	¹ (Kr)4d ⁵ Niobium		¹ (Kr)4d ⁵ Molybdenum

VIIIA

43	98.9062	44	101.07
5273 2730 11.5	Tc	4423 2523 12.4	Ru
	¹ (Kr)4d ⁵ Technetium		¹ (Kr)4d ⁵ Ruthenium

VIIIA

45	102.9055	46	106.4
3970 1825 12.4	Rh	3237 1825 12.0	Pd
	¹ (Kr)4d ⁵ Rhodium		¹ (Kr)4d ⁵ Palladium

VIIIA

47	107.868	48	112.41
2436 1234 10.5	Ag	1040 594.18 7.31	Cd
	¹ (Kr)4d ¹⁰ Silver		¹ (Kr)4d ¹⁰ Cadmium

VIIIA

49	114.82	50	118.69
2346 429.76 7.30	In	2876 505.06 7.30	Sn
	¹ (Kr)4d ¹⁰ Indium		¹ (Kr)4d ¹⁰ Tin

VIIIA

51	121.75	52	127.60
1860 904 6.68	Sb	1261 904 6.24	Te
	¹ (Kr)4d ¹⁰ Antimony		¹ (Kr)4d ¹⁰ Tellurium

VIIIA

53	126.9045	54	131.30
458.4 386.7 4.92	I	458.4 386.7 4.92	Xe
	¹ (Kr)4d ¹⁰ Iodine		¹ (Kr)4d ¹⁰ Xenon

VIIIA

55	132.9054	56	137.33
944 301.55 1.87	Cs	2171 1002 3.5	Ba
	¹ (Xe)6s Cesium		¹ (Xe)6s Barium

VIIIA

57	138.9055	58	178.49
4876 3287 13.1	La	5731 3287 16.6	Hf
	¹ (Xe)4f ¹ 5d ¹ 6s ² Lanthanum		¹ (Xe)4f ¹⁴ 5d ² 6s ² Hafnium

VIIIA

72	178.49	73	180.9479
5731 3287 16.6	Ta	5828 3980 19.3	W
	¹ (Xe)4f ¹⁴ 5d ³ 6s ² Tantalum		¹ (Xe)4f ¹⁴ 5d ⁴ 6s ² Tungsten

VIIIA

74	183.85	75	186.207
5828 3980 19.3	Re	5285 3300 22.4	Os
	¹ (Xe)4f ¹⁴ 5d ⁵ 6s ² Rhenium		¹ (Xe)4f ¹⁴ 5d ⁶ 6s ² Osmium

VIIIA

76	190.2	77	192.22
5285 3300 22.4	Ir	4701 2716 22.5	Pt
	¹ (Xe)4f ¹⁴ 5d ⁷ 6s ² Iridium		¹ (Xe)4f ¹⁴ 5d ⁸ 6s ² Platinum

VIIIA

78	195.09	79	196.9665
4100 2045 21.4	Rh	3130 1337.58 19.3	Au
	¹ (Xe)4f ¹⁴ 5d ⁸ 6s ¹ Rhodium		¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ¹ Gold

VIIIA

80	200.59	81	204.37
2045 1010 19.3	Pt	630 234.28 11.85	Hg
	¹ (Xe)4f ¹⁴ 5d ⁹ 6s ¹ Platinum		¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Mercury

VIIIA

82	207.2	83	208.9804
2023 600.6 11.4	Pb	1837 544.52 9.8	Bi
	¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Lead		¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Bismuth

VIIIA

84	(209)	85	(210)
2023 600.6 11.4	Po	1837 544.52 9.8	At
	¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Polonium		¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Astatine

VIIIA

86	(222)	87	(223)
2023 600.6 11.4	Rn	1837 544.52 9.8	Fr
	¹ (Xe)4f ¹⁴ 5d ¹⁰ 6s ² Radon		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Francium

VIIIA

88	226.0254	89	227.0278
1809 973 10.07	Ra	3473 1323 10.07	Ac
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Radium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Actinium

VIIIA

104	(261)	105	(262)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilquadium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilpentium

VIIIA

106	(263)	107	(263)
1809 973 10.07	Uuh	3473 1323 10.07	Uub
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilhexium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilseptium

VIIIA

108	(265)	109	(265)
1809 973 10.07	Uuo	3473 1323 10.07	Uuq
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unniloctium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilennium

VIIIA

110	(267)	111	(267)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnildecium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnildundecium

VIIIA

112	(277)	113	(277)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unniltrium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilquadrium

VIIIA

114	(285)	115	(285)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilquadium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilpentium

VIIIA

116	(289)	117	(289)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilhexium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilseptium

VIIIA

118	(293)	119	(293)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unniloctium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilennium

VIIIA

120	(297)	121	(297)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnildecium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnildundecium

VIIIA

122	(301)	123	(301)
1809 973 10.07	Uuq	3473 1323 10.07	Uup
	¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unniltrium		¹ (Rn)5f ¹⁴ 6d ¹ 7s ² Unnilquadrium

VIIIA

124	(3
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