

PERIODIC TABLE OF THE ELEMENTS

Table of Selected Radioactive Isotopes

GROUP
1/IA

1	1.00794	
20.20		1, -1
13.81		
0.0899 t		
H		
1s ¹		
Hydrogen		

2/IIA

3	(6.941)	4	9.012182
1015		2744	
453.7		1960	
0.534		1.85	
[He]2s ¹		[He]2s ²	
Li		Be	
Lithium		Beryllium	

1122.989770	12	24.30502
1155.1		923
371.0		923
0.971		1.74
[Ne]3s ¹		[Ne]3s ²
Na		Mg
Sodium		Magnesium

3/IIIB

19	39.0983	20	40.078
1033		1737	
336.8		1814	
0.862		1.55	
[Ar]4s ¹		[Ar]4s ²	
K		Ca	
Potassium		Calcium	

4/IVB

21	44.95591	22	47.867
3109		432	
3500		2183	
2.99		6.11	
[Ar]3d ¹ 4s ²		[Ar]3d ² 4s ²	
Sc		Ti	
Scandium		Titanium	

5/VB

23	50.9415	24	51.996
3496		2941	
2183		2180	
6.11		7.19	
[Ar]3d ³ 4s ²		[Ar]3d ⁴ 4s ¹	
V		Cr	
Vanadium		Chromium	

6/VIB

25	54.9380	26	55.945
3496		3200	
2183		1811	
7.19		7.874	
[Ar]3d ³ 4s ²		[Ar]3d ⁶ 4s ²	
Mn		Fe	
Manganese		Iron	

7/VIIB

27	58.9332	28	58.9332
3496		3108	
1811		1728	
7.874		8.90	
[Ar]3d ⁵ 4s ²		[Ar]3d ⁷ 4s ¹	
Co		Ni	
Cobalt		Nickel	

8

29	63.546	30	65.409
3496		1180	
8.90		692.68	
8.96		7.13	
[Ar]3d ¹⁰ 4s ¹		[Ar]3d ¹⁰ 4s ²	
Cu		Zn	
Copper		Zinc	

9

31	69.723	32	72.64
3496		870	
302.91		1211.4	
6.995		5.32	
[Ar]3d ¹⁰ 4s ¹		[Ar]3d ¹⁰ 4s ² 4p ¹	
Ga		Ge	
Gallium		Germanium	

10

33	74.9216	34	78.96
3496		958	
302.91		494	
5.32		4.79	
[Ar]3d ¹⁰ 4s ² 4p ²		[Ar]3d ¹⁰ 4s ² 4p ³	
As		Se	
Arsenic		Selenium	

11/IB

49	114.82	50	118.710
3496		1040	
594.22		905.06	
7.31		7.31	
[Kr]4d ¹⁰ 5s ¹		[Kr]4d ¹⁰ 5s ² 5p ¹	
Ag		Cd	
Silver		Cadmium	

12/IIIB

51	121.76	52	127.60
3496		1860	
1234.93		903.78	
10.50		7.31	
[Kr]4d ¹⁰ 5s ¹		[Kr]4d ¹⁰ 5s ² 5p ²	
Au		Hg	
Gold		Mercury	

37	85.4678	38	87.62
961		1655	
312.46		1050	
1.532		2.54	
[Kr]5s ¹		[Kr]5s ²	
Rb		Sr	
Rubidium		Strontium	

39	88.9059	40	91.224
3109		4862	
3500		2128	
6.51		6.51	
[Kr]4d ¹ 5s ²		[Kr]4d ² 5s ²	
Y		Zr	
Yttrium		Zirconium	

41	92.90638	42	95.94
3496		4838	
2941		2430	
11.5		12.37	
[Kr]4d ⁵ 5s ¹		[Kr]4d ⁵ 5s ²	
Nb		Mo	
Niobium		Molybdenum	

43	98	44	101.07
(98)		3200	
7.54		1768	
11.5		12.41	
[Kr]4d ⁴ 5s ²		[Kr]4d ⁵ 5s ¹	
Tc		Ru	
Technetium		Ruthenium	

45	102.90550	46	106.42
3496		3336	
2237		1828	
12.41		12.0	
[Kr]4d ⁵ 5s ¹		[Kr]4d ⁸ 5s ¹	
Rh		Pd	
Rhodium		Palladium	

47	107.8682	48	112.41
3496		2435	
1234.93		594.22	
10.50		7.31	
[Kr]4d ¹⁰ 5s ¹		[Kr]4d ¹⁰ 5s ² 5p ¹	
Ag		Cd	
Silver		Cadmium	

49	114.82	50	118.710
3496		1040	
594.22		905.06	
7.31		7.31	
[Kr]4d ¹⁰ 5s ¹		[Kr]4d ¹⁰ 5s ² 5p ¹	
Ag		Cd	
Silver		Cadmium	

51	121.76	52	127.60
3496		1860	
1234.93		903.78	
10.50		7.31	
[Kr]4d ¹⁰ 5s ¹		[Kr]4d ¹⁰ 5s ² 5p ²	
Au		Hg	
Gold		Mercury	

53	126.90447	54	131.29
3496		2871	
1622		1651.1	
4.24		5.90 t	
[Kr]4d ¹⁰ 5s ² 5p ³		[Kr]4d ¹⁰ 5s ² 5p ⁴	
I		Xe	
Iodine		Xenon	

55	132.90545	56	137.327
3496		3737	
302.91		1191	
1.87		6.15	
[Xe]5s ¹		[Xe]5s ²	
Cs		Ba	
Cesium		Barium	

57	138.9055	72	178.49
3109		4876	
3500		2596	
6.15		13.31	
[Xe]4f ¹ 5d ¹ 6s ²		[Xe]4f ¹⁴ 5d ¹ 6s ²	
La		Hf	
Lanthanum		Hafnium	

73	180.9479	74	183.84
3109		5028	
3209		3095	
16.65		19.3	
[Xe]4f ¹⁴ 5d ¹ 6s ²		[Xe]4f ¹⁴ 5d ² 6s ²	
Ta		W	
Tantalum		Tungsten	

75	186.207	76	190.23
3496		5096	
3459		2720	
21.0		22.57	
[Xe]4f ¹⁴ 5d ⁴ 6s ²		[Xe]4f ¹⁴ 5d ⁵ 6s ²	
Re		Os	
Rhenium		Osmium	

77	192.217	78	195.08
3496		4790	
3237		2041.55	
12.41		21.45	
[Xe]4f ¹⁴ 5d ⁵ 6s ²		[Xe]4f ¹⁴ 5d ⁶ 6s ²	
Rh		Pt	
Rhodium		Platinum	

79	196.96655	80	200.59
3496		659.88	
2041.55		234.32	
13.55		11.85	
[Xe]4f ¹⁴ 5d ⁹ 6s ²		[Xe]4f ¹⁴ 5d ¹⁰ 6s ¹	
Ir		Au	
Iridium		Gold	

81	204.3833	82	207.2
3496		2022	
1746		544.55	
11.85		9.75	
[Xe]4f ¹⁴ 5d ¹⁰ 6s ²		[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ²	
Hg		Tl	
Mercury		Thallium	

83	208.9804	84	(209)
3496		1837	
1747		544.55	
9.75		9.3	
[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ²		[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³	
Pb		Bi	
Lead		Bismuth	

85	(210)	86	(222)
1837		1837	
544.55		544.55	
9.3		9.3	
[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³		[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴	
At		Rn	
Astatine		Radon	

87	(223)	88	(226)
1837		1413	
544.55		973	
9.3		5.0	
[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³		[Rn]5f ¹⁴ 6d ¹ 7s ²	
Fr		Ra	
Francium		Radium	

89	(227)	104	(261)
1837		3470	
973		1324	
5.0		10.07	
[Rn]5f ¹⁴ 6d ¹ 7s ²		[Rn]5f ¹⁴ 6d ⁷ 7s ²	
Ac		Rf	
Actinium		Rutherfordium	

105	(262)	106	(266)
3470		3470	
1324		1324	
10.07		10.07	
[Rn]5f ¹⁴ 6d ⁷ 7s ²		[Rn]5f ¹⁴ 6d ⁷ 7s ²	
Pa		U	
Protactinium		Uranium	

107	(264)	108	(277)
3470		3470	
1324		1324	
10.07		10.07	
[Rn]5f ¹⁴ 6d ⁷ 7s ²		[Rn]5f ¹⁴ 6d ⁷ 7s ²	
Np		Bh	
Neptunium		Hassium	

109	(268)	110	(269)
3470		3470	
1324		1324	
10.07		10.07	
[Rn]5f ¹⁴ 6d ⁷ 7s ²		[Rn]5f ¹⁴ 6d ⁷ 7s ²	
Pu		Mt	
Plutonium		Mendelevium	

87	(223)	88	(226)
1837		1413	
544.55		973	
9.3		5.0	
[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³		[Rn]5f ¹⁴ 6d ¹ 7s ²	
Fr		Ra	
Francium		Radium	

89	(227)	104	(261)
1837		3470	
973		1324	
5.0		10.07	
[Rn]5f ¹⁴ 6d ¹ 7s ²		[Rn]5f ¹⁴ 6d ⁷ 7s ²	
Ac		Rf	
Actinium		Rutherfordium	

105	(262)	106	(266)
3470		3470	
1324		1324	
10.07		10.07	
[Rn]5f ¹⁴ 6d ⁷ 7s ²			