

57	138.91 920 3470 2.0	58	140.12 795 3360 1.1	59	148.91 935 3290 1.3	60	144.24 1024 3100 1.1	61	146.92 1100 3000 1.1	62	146.92 1072 1803 1.2	63	146.92 826 1527 1.2	64	157.25 1312 3250 1.2	65	158.93 1356 3230 1.2	66	162.50 1407 2567 1.2	67	164.93 1461 2820 1.2	68	167.26 1529 2868 1.2	69	168.93 1545 1950 1.3	70	173.04 824 1196 1.3	71	174.97 1652 3402 1.3
La	Lanthan [Xe]4f ⁰ 5d ¹ 6s ²	Ce	Cer [Xe]4f ¹ 5d ¹ 6s ²	Pr	Praseodym [Xe]4f ² 5d ⁰ 6s ²	Nd	Neodym [Xe]4f ⁴ 5d ⁰ 6s ²	Pm	Promethium [Xe]4f ⁶ 5d ⁰ 6s ²	Sm	Samarium [Xe]4f ⁶ 5d ⁰ 6s ²	Eu	Europium [Xe]4f ⁷ 5d ⁰ 6s ²	Gd	Gadolinium [Xe]4f ⁷ 5d ¹ 6s ²	Tb	Terbium [Xe]4f ⁹ 5d ⁰ 6s ²	Dy	Dysprosium [Xe]4f ¹⁰ 5d ⁰ 6s ²	Ho	Holmium [Xe]4f ¹¹ 5d ⁰ 6s ²	Er	Erbium [Xe]4f ¹² 5d ⁰ 6s ²	Tm	Thulium [Xe]4f ¹³ 5d ⁰ 6s ²	Yb	Ytterbium [Xe]4f ¹⁴ 5d ⁰ 6s ²	Lu	Lutetium [Xe]4f ¹⁴ 5d ¹ 6s ²
6.17	3	6.77	3,4	6.48	3,4	7.00	3,4	7.2	3	7.54	2,3	5.25	2,3	7.89	2,3	8.25	3,4	8.56	3	8.78	3	8.78	3	9.32	2,3,4	6.97	2,3	9.84	3
[89]	227.03 1050 3300 1.1	[90]	232.04 1735 4788 1.3	[91]	231.04 1568 3902 1.3	[92]	238.03 639 3902 1.4	[93]	237.05 639 3902 1.4	[94]	244.06 639 3230 1.3	[95]	243.06 1176 2607 1.3	[96]	247.07 1340 3110 1.3	[97]	247.07 986 2607 1.3	[98]	251.08 900 2607 1.3	[99]	252.08 860 896 1.3	[100]	257.18 852	[101]	258.10	[102]	259.10	[103]	262.11
Ac	Actinium [Rn]5f ⁰ 6d ¹ 7s ²	Th	Thorium [Rn]5f ⁰ 6d ² 7s ²	Pa	Protoactinium [Rn]5f ² 6d ¹ 7s ²	U	Uran [Rn]5f ³ 6d ¹ 7s ²	Np	Neptunium [Rn]5f ⁴ 6d ¹ 7s ²	Pu	Plutonium [Rn]5f ⁶ 6d ⁰ 7s ²	Am	Americium [Rn]5f ⁷ 6d ⁰ 7s ²	Cm	Curium [Rn]5f ⁸ 6d ¹ 7s ²	Bk	Berkelium [Rn]5f ⁹ 6d ¹ 7s ²	Cf	Californium [Rn]5f ¹⁰ 6d ⁰ 7s ²	Es	Einsteinium [Rn]5f ¹¹ 6d ⁰ 7s ²	Fm	Fermium [Rn]5f ¹² 6d ⁰ 7s ²	Md	Mendelevium [Rn]5f ¹³ 6d ⁰ 7s ²	No	Nobelium [Rn]5f ¹⁴ 6d ⁰ 7s ²	Lr	Lawrencium [Rn]5f ¹⁴ 6d ¹ 7s ²
10.07	3	11.72	2,3,4	15.37	5	19.16	3,4,5,6	20.45	3,4,5,6,7	19.82	3,4,5,6,7	13.67	2,3,4,5,6	13.51	(2,3),4	14.78	3,4	15.1	(2,3),4	8.84	(2,3),4	2,3	2,3	2,3	2,3	2,3	2,3	3	