

| 1 | K | 2 | _s 2 | Р | D | F |
|---|---|----|----------------|---|----|----|
| 2 | L | 8 | 2 | 6 | | |
| 3 | М | 18 | 2 | 6 | 10 | |
| 4 | N | 32 | 2 | 6 | 10 | 14 |
| 5 | 0 | 32 | 2 | 6 | 10 | 14 |
| 6 | Р | 18 | 2 | 6 | 10 | |
| 7 | Q | 8 | 2 | 6 | | |
| 8 | R | 2 | 2 | | | |

231.04 -18-32-20-9-2 238.03 -18-32-21-9-2

| ⁵⁷ La | ⁵⁸ Ce ⁺³ | ⁵⁹ Pr | Nd ⁺³ | Pm ⁺³ | ⁶² Sm ⁺³ | ⁶³ Eu ⁺² | ⁶⁴ Gd ⁺³ | 65 Tb | 66 Dy +3 | 67 Ho | ⁶⁸ Er | ⁶⁹ Tm ⁺³ | ⁷⁰ Yb ⁺³ | Lu +3 |
|--|--------------------------------|------------------|------------------|--------------------------------------|--------------------------------|-------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| Lanthanium 138.91 2-8-18-18-9-2 | | | | Promethium (145) 2-8-18-23-8-2 | | Europium 151.96 2-8-18-25-8-2 | Gadolinium 157.25 2-8-18-25-9-2 | Terbium 158.93 2-8-18-27-8-2 | Dysprosium 162.50 2-8-18-28-8-2 | Holmium 164.93 2-8-18-29-8-2 | Erbium 167.26 2-8-18-30-8-2 | Thulium 168.93 2-8-18-31-8-2 | Ytterbium 173.04 2-8-18-32-8-2 | Lutetium 174.97 2-8-18-32-9-2 |
| Actinide 89 +3 90 +4 91 +4 92 +3 93 +3 94 +3 95 +3 96 +3 97 +3 98 +3 99 100 101 102 103 | | | | | | | | | | | 103 | | | |
| ⁸⁹ Ac | ຶ Th ົ | ຶPa [‡] | | +4 | | - 44 | _ | [™] Bk [™] | | "Es | Fm | Md | No | "Lr |
| Actinium | Thorium | Protactinium | Uranium | Nentunium +6 | Plutonium | Americium | Curium | Rerkelium | Californium | Finetoinium | Formium | Mendelevium | Nobelium | Lawrencium |