|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vodík** | | | | | | | | | | |
| H-3 | 12,3 r | F | 1,000 | 2,6.10-11 | 1,000 | 2,0.10-11 | 1,1.10-11 | 8,2.10-12 | 5,9.10-12 | 6,2.10-12 |
| M | 0,200 | 3,4.10-10 | 0,100 | 2,7.10-10 | 1,4.10-10 | 8,2.10-11 | 5,3.10-11 | 4,5.10-11 |
| S | 0,020 | 1,2.10-9 | 0,010 | 1,0.10-9 | 6,3.10-10 | 3,8.10-10 | 2,8.10-10 | 2,6.10-10 |
| **Berýlium** | | | | | | | | | | |
| Be‑7 | 53,3 d | M | 0,020 | 2,5.10-10 | 0,005 | 2,1.10-10 | 1,2.10-10 | 8,3.10-11 | 6,2.10-11 | 5,0.10-11 |
| S | 2,8.10-10 | 2,4.10-10 | 1,4.10-10 | 9,6.10-11 | 6,8.10-11 | 5,5.10-11 |
| Be‑10 | 1,60.106 r | M | 4,1.10-8 | 3,4.10-8 | 2,0.10-8 | 1,3.10-8 | 1,1.10-8 | 9,6.10-9 |
| S | 9,9.10-8 | 9,1.10-8 | 6,1.10-8 | 4,2.10-8 | 3,7.10-8 | 3,5.10-8 |
| **Uhlík** | | | | | | | | | | |
| C‑11 | 0,340 h | F | 1,000 | 1,0.10-10 | 1,000 | 7,0.10-11 | 3,2.10-11 | 2,1.10-11 | 1,3.10-11 | 1,1.10-11 |
| M | 0,200 | 1,5.10-10 | 0,100 | 1,1.10-10 | 4,9.10-11 | 3,2.10-11 | 2,1.10-11 | 1,8.10-11 |
| S | 0,020 | 1,6.10-10 | 0,010 | 1,1.10-10 | 5,1.10-11 | 3,3.10-11 | 2,2.10-11 | 1,8.10-11 |
| C‑14 | 5,73.103 r | F | 1,000 | 6,1.10-10 | 1,000 | 6,7.10-10 | 3,6.10-10 | 2,9.10-10 | 1,9.10-10 | 2,0.10-10 |
| M | 0,200 | 8,3.10-9 | 0,100 | 6,6.10-9 | 4,0.10-9 | 2,8.10-9 | 2,5.10-9 | 2,0.10-9 |
| S | 0,020 | 1,9.10-8 | 0,010 | 1,7.10-8 | 1,1.10-8 | 7,4.10-9 | 6,4.10-9 | 5,8.10-9 |
| **Fluór** | | | | | | | | | | |
| F‑18 | 1,83 h | F | 1,000 | 2,6.10-10 | 1,000 | 1,9.10-10 | 9,1.10-11 | 5,6.10-11 | 3,4.10-11 | 2,8.10-11 |
| M | 4,1.10-10 | 2,9.10-10 | 1,5.10-10 | 9,7.10-11 | 6,9.10-11 | 5,6.10-11 |
| S | 4,2.10-10 | 3,1.10-10 | 1,5.10-10 | 1,0.10-10 | 7,3.10-11 | 5,9.10-11 |
| **Sodík** | | | | | | | | | | |
| Na‑22 | 2,60 r | F | 1,000 | 9,7.10-9 | 1,000 | 7,3.10-9 | 3,8.10-9 | 2,4.10-9 | 1,5.10-9 | 1,3.10-9 |
| Na‑24 | 15,0 h | 2,3.10-9 | 1,8.10-9 | 9,3.10-10 | 5,7.10-10 | 3,4.10-10 | 2,7.10-10 |
| **Horčík** | | | | | | | | | | |
| Mg‑28 | 20,9 h | F | 1,000 | 5,3.10-9 | 0,500 | 4,7.10-9 | 2,2.10-9 | 1,3.10-9 | 7,3.10-10 | 6,0.10-10 |
| M | 7,3.10-9 | 7,2.10-9 | 3,5.10-9 | 2,3.10-9 | 1,5.10-9 | 1,2.10-9 |
| **Hliník** | | | | | | | | | | |
| Al‑26 | 7,16.105 r | F | 0,020 | 8,1.10-8 | 0,010 | 6,2.10-8 | 3,2.10-8 | 2,0.10-8 | 1,3.10-8 | 1,1.10-8 |
| M | 8,8.10-8 | 7,4.10-8 | 4,4.10-8 | 2,9.10-8 | 2,2.10-8 | 2,0.10-8 |
| **Kremík** | | | | | | | | | | |
| Si‑31 | 2,62 h | F | 0,020 | 3,6.10-10 | 0,010 | 2,3.10-10 | 9,5.10-11 | 5,9.10-11 | 3,2.10-11 | 2,7.10-11 |
| M | 6,9.10-10 | 4,4.10-10 | 2,0.10-10 | 1,3.10-10 | 8,9.10-11 | 7,4.10-11 |
| S | 7,2.10-10 | 4,7.10-10 | 2,2.10-10 | 1,4.10-10 | 9,5.10-11 | 7,9.10-11 |
| Si‑32 | 4,50.102 r | F | 3,0.10-8 | 2,3.10-8 | 1,1.10-8 | 6,4.10-9 | 3,8.10-9 | 3,2.10-9 |
| M | 7,1.10-8 | 6,0.10-8 | 3,6.10-8 | 2,4.10-8 | 1,9.10-8 | 1,7.10-8 |
| S | 2,8.10-7 | 2,7.10-7 | 1,9.10-7 | 1,3.10-7 | 1,1.10-7 | 1,1.10-7 |
| **Fosfor** | | | | | | | | | | |
| P‑32 | 14,3 d | F | 1,000 | 1,2.10-8 | 0,800 | 7,5.10-9 | 3,2.10-9 | 1,8.10-9 | 9,8.10-10 | 7,7.10-10 |
| M | 2,2.10-8 | 1,5.10-8 | 8,0.10-9 | 5,3.10-9 | 4,0.10-9 | 3,4.10-9 |
| P‑33 | 25,4 d | F | 1,2.10-9 | 7,8.10-10 | 3,0.10-10 | 2,0.10-10 | 1,1.10-10 | 9,2.10-11 |
| M | 6,1.10-9 | 4,6.10-9 | 2,8.10-9 | 2,1.10-9 | 1,9.10-9 | 1,5.10-9 |
| **Síra** | | | | | | | | | | |
| S‑35 (anorganická) | 87,4 d | F | 1,000 | 5,5.10-10 | 0,800 | 3,9.10-10 | 1,8.10-10 | 1,1.10-10 | 6,0.10-11 | 5,1.10-11 |
| M | 0,200 | 5,9.10-9 | 0,100 | 4,5.10-9 | 2,8.10-9 | 2,0.10-9 | 1,8.10-9 | 1,4.10-9 |
| S | 0,020 | 7,7.10-9 | 0,010 | 6,0.10-9 | 3,6.10-9 | 2,6.10-9 | 2,3.10-9 | 1,9.10-9 |
| **Chlór** | | | | | | | | | | |
| Cl‑36 | 3,01.105 r | F | 1,000 | 3,9.10-9 | 1,000 | 2,6.10-9 | 1,1.10-9 | 7,1.10-10 | 3,9.10-10 | 3,3.10-10 |
| M | 3,1.10-8 | 2,6.10-8 | 1,5.10-8 | 1,0.10-8 | 8,8.10-9 | 7,3.10-9 |
| Cl‑38 | 0,620 h | F | 2,9.10-10 | 1,9.10-10 | 8,4.10-11 | 5,1.10-11 | 3,0.10-11 | 2,5.10-11 |
| M | 4,7.10-10 | 3,0.10-10 | 1,4.10-10 | 8,5.10-11 | 5,4.10-11 | 4,5.10-11 |
| Cl‑39 | 0,927 h | F | 2,7.10-10 | 1,8.10-10 | 8,4.10-11 | 5,1.10-11 | 3,1.10-11 | 2,5.10-11 |
| M | 4,3.10-10 | 2,8.10-10 | 1,3.10-10 | 8,5.10-11 | 5,6.10-11 | 4,6.10-11 |
| **Draslík** | | | | | | | | | | |
| K‑40 | 1,28.109 r | F | 1,000 | 2,4.10-8 | 1,000 | 1,7.10-8 | 7,5.10-9 | 4,5.10-9 | 2,5.10-9 | 2,1.10-9 |
| K‑42 | 12,4 h | 1,6.10-9 | 1,0.10-9 | 4,4.10-10 | 2,6.10-10 | 1,5.10-10 | 1,2.10-10 |
| K‑43 | 22,6 h | F | 1,000 | 1,3.10-9 | 1,000 | 9,7.10-10 | 4,7.10-10 | 2,9.10-10 | 1,7.10-10 | 1,4.10-10 |
| K‑44 | 0,369 h | 2,2.10-10 | 1,4.10-10 | 6,5.10-11 | 4,0.10-11 | 2,4.10-11 | 2,0.10-11 |
| K‑45 | 0,333 h | 1,5.10-10 | 1,0.10-10 | 4,8.10-11 | 3,0.10-11 | 1,8.10-11 | 1,5.10-11 |
| **Vápnik** | | | | | | | | | | |
| Ca‑41 | 1,40.105 r | F | 0,600 | 6,7.10-10 | 0,300 | 3,8.10-10 | 2,6.10-10 | 3,3.10-10 | 3,3.10-10 | 1,7.10-10 |
| M | 0,200 | 4,2.10-10 | 0,100 | 2,6.10-10 | 1,7.10-10 | 1,7.10-10 | 1,6.10-10 | 9,5.10-11 |
| S | 0,020 | 6,7.10-10 | 0,010 | 6,0.10-10 | 3,8.10-10 | 2,4.10-10 | 1,9.10-10 | 1,8.10-10 |
| Ca‑45 | 163 d | F | 0,600 | 5,7.10-9 | 0,300 | 3,0.10-9 | 1,4.10-9 | 1,0.10-9 | 7,6.10-10 | 4,6.10-10 |
| M | 0,200 | 1,2.10-8 | 0,100 | 8,8.10-9 | 5,3.10-9 | 3,9.10-9 | 3,5.10-9 | 2,7.10-9 |
| S | 0,020 | 1,5.10-8 | 0,010 | 1,2.10-8 | 7,2.10-9 | 5,1.10-9 | 4,6.10-9 | 3,7.10-9 |
| Ca‑47 | 4,53 d | F | 0,600 | 4,9.10-9 | 0,300 | 3,6.10-9 | 1,7.10-9 | 1,1.10-9 | 6,1.10-10 | 5,5.10-10 |
| M | 0,200 | 1,0.10-8 | 0,100 | 7,7.10-9 | 4,2.10-9 | 2,9.10-9 | 2,4.10-9 | 1,9.10-9 |
| S | 0,020 | 1,2.10-8 | 0,010 | 8,5.10-9 | 4,6.10-9 | 3,3.10-9 | 2,6.10-9 | 2,1.10-9 |
| **Skandium** | | | | | | | | | | |
| Sc‑43 | 3,89 h | S | 0,001 | 9,3.10-10 | 1,0.10-4 | 6,7.10-10 | 3,3.10-10 | 2,2.10-10 | 1,4.10-10 | 1,1.10-10 |
| Sc‑44 | 3,93 h | 1,6.10-9 | 1,2.10-9 | 5,6.10-10 | 3,6.10-10 | 2,3.10-10 | 1,8.10-10 |
| Sc‑44m | 2,44 d | 1,1.10-8 | 8,4.10-9 | 4,2.10-9 | 2,8.10-9 | 1,7.10-9 | 1,4.10-9 |
| Sc‑46 | 83,8 d | 2,8.10-8 | 2,3.10-8 | 1,4.10-8 | 9,8.10-9 | 8,4.10-9 | 6,8.10-9 |
| Sc‑47 | 3,35 d | 4,0.10-9 | 2,8.10-9 | 1,5.10-9 | 1,1.10-9 | 9,2.10-10 | 7,3.10-10 |
| Sc‑48 | 1,82 d | 7,8.10-9 | 5,9.10-9 | 3,1.10-9 | 2,0.10-9 | 1,4.10-9 | 1,1.10-9 |
| Sc‑49 | 0,956 h | 3,9.10-10 | 2,4.10-10 | 1,1.10-10 | 7,1.10-11 | 4,7.10-11 | 4,0.10-11 |
| **Titán** | | | | | | | | | | |
| Ti‑44 | 47,3 r | F | 0,020 | 3,1.10-7 | 0,010 | 2,6.10-7 | 1,5.10-7 | 9,6.10-8 | 6,6.10-8 | 6,1.10-8 |
| M | 1,7.10-7 | 1,5.10-7 | 9,2.10-8 | 5,9.10-8 | 4,6.10-8 | 4,2.10-8 |
| S | 3,2.10-7 | 3,1.10-7 | 2,1.10-7 | 1,5.10-7 | 1,3.10-7 | 1,2.10-7 |
| Ti‑45 | 3,08 h | F | 4,4.10-10 | 3,2.10-10 | 1,5.10-10 | 9,1.10-11 | 5,1.10-11 | 4,2.10-11 |
| M | 7,4.10-10 | 5,2.10-10 | 2,5.10-10 | 1,6.10-10 | 1,1.10-10 | 8,8.10-11 |
| S | 7,7.10-10 | 5,5.10-10 | 2,7.10-10 | 1,7.10-10 | 1,1.10-10 | 9,3.10-11 |
| **Vanád** | | | | | | | | | | |
| V‑47 | 0,543 h | F | 0,020 | 1,8.10-10 | 0,010 | 1,2.10-10 | 5,6.10-11 | 3,5.10-11 | 2,1.10-11 | 1,7.10-11 |
| M | 2,8.10-10 | 1,9.10-10 | 8,6.10-11 | 5,5.10-11 | 3,5.10-11 | 2,9.10-11 |
| V‑48 | 16,2 d | F | 8,4.10-9 | 6,4.10-9 | 3,3.10-9 | 2,1.10-9 | 1,3.10-9 | 1,1.10-9 |
| M | 1,4.10-8 | 1,1.10-8 | 6,3.10-9 | 4,3.10-9 | 2,9.10-9 | 2,4.10-9 |
| V‑49 | 330 d | F | 2,0.10-10 | 1,6.10-10 | 7,7.10-11 | 4,3.10-11 | 2,5.10-11 | 2,1.10-11 |
| M | 2,8.10-10 | 2,1.10-10 | 1,1.10-10 | 6,3.10-11 | 4,0.10-11 | 3,4.10-11 |
| **Chróm** | | | | | | | | | | |
| Cr‑48 | 23,0 h | F | 0,200 | 7,6.10-10 | 0,100 | 6,0.10-10 | 3,1.10-10 | 2,0.10-10 | 1,2.10-10 | 9,9.10-11 |
| M | 1,1.10-9 | 9,1.10-10 | 5,1.10-10 | 3,4.10-10 | 2,5.10-10 | 2,0.10-10 |
| S | 1,2.10-9 | 9,8.10-10 | 5,5.10-10 | 3,7.10-10 | 2,8.10-10 | 2,2.10-10 |
| Cr‑49 | 0,702 h | F | 1,9.10-10 | 1,3.10-10 | 6,0.10-11 | 3,7.10-11 | 2,2.10-11 | 1,9.10-11 |
| M | 3,0.10-10 | 2,0.10-10 | 9,5.10-11 | 6,1.10-11 | 4,0.10-11 | 3,3.10-11 |
| S | 3,1.10-10 | 2,1.10-10 | 9,9.10-11 | 6,4.10-11 | 4,2.10-11 | 3,5.10-11 |
| Cr‑51 | 27,7 d | F | 1,7.10-10 | 1,3.10-10 | 6,3.10-11 | 4,0.10-11 | 2,4.10-11 | 2,0.10-11 |
| M | 2,6.10-10 | 1,9.10-10 | 1,0.10-10 | 6,4.10-11 | 3,9.10-11 | 3,2.10-11 |
| S | 2,6.10-10 | 2,1.10-10 | 1,0.10-10 | 6,6.10-11 | 4,5.10-11 | 3,7.10-11 |
| **Mangán** | | | | | | | | | | |
| Mn‑51 | 0,770 h | F | 0,200 | 2,5.10-10 | 0,100 | 1,7.10-10 | 7,5.10-11 | 4,6.10-11 | 2,7.10-11 | 2,3.10-11 |
| M | 4,0.10-10 | 2,7.10-10 | 1,2.10-10 | 7,8.10-11 | 5,0.10-11 | 4,1.10-11 |
| Mn‑52 | 5,59 d | F | 7,0.10-9 | 5,5.10-9 | 2,9.10-9 | 1,8.10-9 | 1,1.10-9 | 9,4.10-10 |
| M | 8,6.10-9 | 6,8.10-9 | 3,7.10-9 | 2,4.10-9 | 1,7.10-9 | 1,4.10-9 |
| Mn‑52m | 0,352 h | F | 1,9.10-10 | 1,3.10-10 | 6,1.10-11 | 3,8.10-11 | 2,2.10-11 | 1,9.10-11 |
| M | 2,8.10-10 | 1,9.10-10 | 8,7.10-11 | 5,5.10-11 | 3,4.10-11 | 2,9.10-11 |
| Mn‑53 | 3,70.106 r | F | 3,2.10-10 | 2,2.10-10 | 1,1.10-10 | 6,0.10-11 | 3,4.10-11 | 2,9.10-11 |
| M | 4,6.10-10 | 3,4.10-10 | 1,7.10-10 | 1,0.10-10 | 6,4.10-11 | 5,4.10-11 |
| Mn‑54 | 312 d | F | 5,2.10-9 | 4,1.10-9 | 2,2.10-9 | 1,5.10-9 | 9,9.10-10 | 8,5.10-10 |
| M | 0,200 | 7,5.10-9 | 0,100 | 6,2.10-9 | 3,8.10-9 | 2,4.10-9 | 1,9.10-9 | 1,5.10-9 |
| Mn‑56 | 2,58 h | F | 6,9.10-10 | 4,9.10-10 | 2,3.10-10 | 1,4.10-10 | 7,8.10-11 | 6,4.10-11 |
| M | 1,1.10-9 | 7,8.10-10 | 3,7.10-10 | 2,4.10-10 | 1,5.10-10 | 1,2.10-10 |
| **Železo** | | | | | | | | | | |
| Fe‑52 | 8,28 h | F | 0,600 | 5,2.10-9 | 0,100 | 3,6.10-9 | 1,5.10-9 | 8,9.10-10 | 4,9.10-10 | 3,9.10-10 |
| M | 0,200 | 5,8.10-9 | 4,1.10-9 | 1,9.10-9 | 1,2.10-9 | 7,4.10-10 | 6,0.10-10 |
| S | 0,020 | 6,0.10-9 | 4,2.10-9 | 2,0.10-9 | 1,3.10-9 | 7,7.10-10 | 6,3.10-10 |
| Fe‑55 | 2,70 r | F | 0,600 | 4,2.10-9 | 3,2.10-9 | 2,2.10-9 | 1,4.10-9 | 9,4.10-10 | 7,7.10-10 |
| M | 0,200 | 1,9.10-9 | 1,4.10-9 | 9,9.10-10 | 6,2.10-10 | 4,4.10-10 | 3,8.10-10 |
| S | 0,020 | 1,0.10-9 | 8,5.10-10 | 5,0.10-10 | 2,9.10-10 | 2,0.10-10 | 1,8.10-10 |
| Fe‑59 | 44,5 d | F | 0,600 | 2,1.10-8 | 1,3.10-8 | 7,1.10-9 | 4,2.10-9 | 2,6.10-9 | 2,2.10-9 |
| M | 0,200 | 1,8.10-8 | 1,3.10-8 | 7,9.10-9 | 5,5.10-9 | 4,6.10-9 | 3,7.10-9 |
| S | 0,020 | 1,7.10-8 | 1,3.10-8 | 8,1.10-9 | 5,8.10-9 | 5,1.10-9 | 4,0.10-9 |
| Fe‑60 | 1,00.105 r | F | 0,600 | 4,4.10-7 | 3,9.10-7 | 3,5.10-7 | 3,2.10-7 | 2,9.10-7 | 2,8.10-7 |
| M | 0,200 | 2,0.10-7 | 1,7.10-7 | 1,6.10-7 | 1,4.10-7 | 1,4.10-7 | 1,4.10-7 |
| S | 0,020 | 9,3.10-8 | 8,8.10-8 | 6,7.10-8 | 5,2.10-8 | 4,9.10-8 | 4,9.10-8 |
| **Kobalt** | | | | | | | | | | |
| Co‑55 | 17,5 h | F | 0,600 | 2,2.10-9 | 0,100 | 1,8.10-9 | 9,0.10-10 | 5,5.10-10 | 3,1.10-10 | 2,7.10-10 |
| M | 0,200 | 4,1.10-9 | 3,1.10-9 | 1,5.10-9 | 9,8.10-10 | 6,1.10-10 | 5,0.10-10 |
| S | 0,020 | 4,6.10-9 | 3,3.10-9 | 1,6.10-9 | 1,1.10-9 | 6,6.10-10 | 5,3.10-10 |
| Co‑56 | 78,7 d | F | 0,600 | 1,4.10-8 | 1,0.10-8 | 5,5.10-9 | 3,5.10-9 | 2,2.10-9 | 1,8.10-9 |
| M | 0,200 | 2,5.10-8 | 2,1.10-8 | 1,1.10-8 | 7,4.10-9 | 5,8.10-9 | 4,8.10-9 |
| S | 0,020 | 2,9.10-8 | 2,5.10-8 | 1,5.10-8 | 1,0.10-8 | 8,0.10-9 | 6,7.10-9 |
| Co‑57 | 271 d | F | 0,600 | 1,5.10-9 | 1,1.10-9 | 5,6.10-10 | 3,7.10-10 | 2,3.10-10 | 1,9.10-10 |
| M | 0,200 | 2,8.10-9 | 2,2.10-9 | 1,3.10-9 | 8,5.10-10 | 6,7.10-10 | 5,5.10-10 |
| S | 0,020 | 4,4.10-9 | 3,7.10-9 | 2,3.10-9 | 1,5.10-9 | 1,2.10-9 | 1,0.10-9 |
| Co‑58 | 70,8 d | F | 0,600 | 4,0.10-9 | 3,0.10-9 | 1,6.10-9 | 1,0.10-9 | 6,4.10-10 | 5,3.10-10 |
| M | 0,200 | 7,3.10-9 | 6,5.10-9 | 3,5.10-9 | 2,4.10-9 | 2,0.10-9 | 1,6.10-9 |
| S | 0,020 | 9,0.10-9 | 7,5.10-9 | 4,5.10-9 | 3,1.10-9 | 2,6.10-9 | 2,1.10-9 |
| Co‑58m | 9,15 h | F | 0,600 | 4,8.10-11 | 3,6.10-11 | 1,7.10-11 | 1,1.10-11 | 5,9.10-12 | 5,2.10-12 |
| M | 0,200 | 1,1.10-10 | 7,6.10-11 | 3,8.10-11 | 2,4.10-11 | 1,6.10-11 | 1,3.10-11 |
| S | 0,020 | 1,3.10-10 | 9,0.10-11 | 4,5.10-11 | 3,0.10-11 | 2,0.10-11 | 1,7.10-11 |
| Co‑60 | 5,27 r | F | 0,600 | 3,0.10-8 | 2,3.10-8 | 1,4.10-8 | 8,9.10-9 | 6,1.10-9 | 5,2.10-9 |
| M | 0,200 | 4,2.10-8 | 3,4.10-8 | 2,1.10-8 | 1,5.10-8 | 1,2.10-8 | 1,0.10-8 |
| S | 0,020 | 9,2.10-8 | 8,6.10-8 | 5,9.10-8 | 4,0.10-8 | 3,4.10-8 | 3,1.10-8 |
| Co‑60m | 0,174 h | F | 0,600 | 4,4.10-12 | 2,8.10-12 | 1,5.10-12 | 1,0.10-12 | 8,3.10-13 | 6,9.10-13 |
| M | 0,200 | 7,1.10-12 | 4,7.10-12 | 2,7.10-12 | 1,8.10-12 | 1,5.10-12 | 1,2.10-12 |
| S | 0,020 | 7,6.10-12 | 5,1.10-12 | 2,9.10-12 | 2,0.10-12 | 1,7.10-12 | 1,4.10-12 |
| Co‑61 | 1,65 h | F | 0,600 | 2,1.10-10 | 1,4.10-10 | 6,0.10-11 | 3,8.10-11 | 2,2.10-11 | 1,9.10-11 |
| M | 0,200 | 4,0.10-10 | 2,7.10-10 | 1,2.10-10 | 8,2.10-11 | 5,7.10-11 | 4,7.10-11 |
| S | 0,020 | 4,3.10-10 | 2,8.10-10 | 1,3.10-10 | 8,8.10-11 | 6,1.10-11 | 5,1.10-11 |
| Co‑62m | 0,232 h | F | 0,600 | 1,4.10-10 | 9,5.10-11 | 4,5.10-11 | 2,8.10-11 | 1,7.10-11 | 1,4.10-11 |
| M | 0,200 | 1,9.10-10 | 1,3.10-10 | 6,1.10-11 | 3,8.10-11 | 2,4.10-11 | 2,0.10-11 |
| S | 0,020 | 2,0.10-10 | 1,3.10-10 | 6,3.10-11 | 4,0.10-11 | 2,5.10-11 | 2,1.10-11 |
| **Nikel** | | | | | | | | | | |
| Ni‑56 | 6,10 d | F | 0,100 | 3,3.10-9 | 0,050 | 2,8.10-9 | 1,5.10-9 | 9,3.10-10 | 5,8.10-10 | 4,9.10-10 |
| M | 4,9.10-9 | 0,050 | 4,1.10-9 | 2,3.10-9 | 1,5.10-9 | 1,1.10-9 | 8,7.10-10 |
| S | 0,020 | 5,5.10-9 | 0,010 | 4,6.10-9 | 2,7.10-9 | 1,8.10-9 | 1,3.10-9 | 1,0.10-9 |
| Ni‑57 | 1,50 d | F | 0,100 | 2,2.10-9 | 0,050 | 1,8.10-9 | 8,9.10-10 | 5,5.10-10 | 3,1.10-10 | 2,5.10-10 |
| M | 3,6.10-9 | 0,050 | 2,8.10-9 | 1,5.10-9 | 9,5.10-10 | 6,2.10-10 | 5,0.10-10 |
| S | 0,020 | 3,9.10-9 | 0,010 | 3,0.10-9 | 1,5.10-9 | 1,0.10-9 | 6,6.10-10 | 5,3.10-10 |
| Ni‑59 | 7,50.104 r | F | 0,100 | 9,6.10-10 | 0,050 | 8,1.10-10 | 4,5.10-10 | 2,8.10-10 | 1,9.10-10 | 1,8.10-10 |
| M | 7,9.10-10 | 0,050 | 6,2.10-10 | 3,4.10-10 | 2,1.10-10 | 1,4.10-10 | 1,3.10-10 |
| S | 0,020 | 1,7.10-9 | 0,010 | 1,5.10-9 | 9,5.10-10 | 5,9.10-10 | 4,6.10-10 | 4,4.10-10 |
| Ni‑63 | 96,0 r | F | 0,100 | 2,3.10-9 | 0,050 | 2,0.10-9 | 1,1.10-9 | 6,7.10-10 | 4,6.10-10 | 4,4.10-10 |
| M | 0,100 | 2,5.10-9 | 0,050 | 1,9.10-9 | 1,1.10-9 | 7,0.10-10 | 5,3.10-10 | 4,8.10-10 |
| S | 0,020 | 4,8.10-9 | 0,010 | 4,3.10-9 | 2,7.10-9 | 1,7.10-9 | 1,3.10-9 | 1,3.10-9 |
| Ni‑65 | 2,52 h | F | 0,100 | 4,4.10-10 | 0,050 | 3,0.10-10 | 1,4.10-10 | 8,5.10-11 | 4,9.10-11 | 4,1.10-11 |
| M | 7,7.10-10 | 0,050 | 5,2.10-10 | 2,4.10-10 | 1,6.10-10 | 1,0.10-10 | 8,5.10-11 |
| S | 0,020 | 8,1.10-10 | 0,010 | 5,5.10-10 | 2,6.10-10 | 1,7.10-10 | 1,1.10-10 | 9,0.10-11 |
| Ni‑66 | 2,27 d | F | 0,100 | 5,7.10-9 | 0,050 | 3,8.10-9 | 1,6.10-9 | 1,0.10-9 | 5,1.10-10 | 4,2.10-10 |
| M | 1,3.10-8 | 0,050 | 9,4.10-9 | 4,5.10-9 | 2,9.10-9 | 2,0.10-9 | 1,6.10-9 |
| S | 0,020 | 1,5.10-8 | 0,010 | 1,0.10-8 | 5,0.10-9 | 3,2.10-9 | 2,2.10-9 | 1,8.10-9 |
| **Meď** | | | | | | | | | | |
| Cu‑60 | 0,387 h | F | 1,000 | 2,1.10-10 | 0,500 | 1,6.10-10 | 7,5.10-11 | 4,6.10-11 | 2,8.10-11 | 2,3.10-11 |
| M | 3,0.10-10 | 2,2.10-10 | 1,0.10-10 | 6,5.10-11 | 4,0.10-11 | 3,3.10-11 |
| S | 3,1.10-10 | 2,2.10-10 | 1,1.10-10 | 6,7.10-11 | 4,2.10-11 | 3,4.10-11 |
| Cu‑61 | 3,41 h | F | 3,1.10-10 | 2,7.10-10 | 1,3.10-10 | 7,9.10-11 | 4,5.10-11 | 3,7.10-11 |
| M | 4,9.10-10 | 4,4.10-10 | 2,1.10-10 | 1,4.10-10 | 9,1.10-11 | 7,4.10-11 |
| S | 5,1.10-10 | 4,5.10-10 | 2,2.10-10 | 1,4.10-10 | 9,6.10-11 | 7,8.10-11 |
| Cu‑64 | 12,7 h | F | 2,8.10-10 | 2,7.10-10 | 1,2.10-10 | 7,6.10-11 | 4,2.10-11 | 3,5.10-11 |
| M | 5,5.10-10 | 5,4.10-10 | 2,7.10-10 | 1,9.10-10 | 1,4.10-10 | 1,1.10-10 |
| S | 5,8.10-10 | 5,7.10-10 | 2,9.10-10 | 2,0.10-10 | 1,3.10-10 | 1,2.10-10 |
| Cu‑67 | 2,58 d | F | 9,5.10-10 | 8,0.10-10 | 3,5.10-10 | 2,2.10-10 | 1,2.10-10 | 1,0.10-10 |
| M | 2,3.10-9 | 2,0.10-9 | 1,1.10-9 | 8,1.10-10 | 6,9.10-10 | 5,5.10-10 |
| S | 2,5.10-9 | 2,1.10-9 | 1,2.10-9 | 8,9.10-10 | 7,7.10-10 | 6,1.10-10 |
| **Zinok** | | | | | | | | | | |
| Zn‑62 | 9,26 h | F | 1,000 | 1,7.10-9 | 0,500 | 1,7.10-9 | 7,7.10-10 | 4,6.10-10 | 2,5.10-10 | 2,0.10-10 |
| M | 0,200 | 4,5.10-9 | 0,100 | 3,5.10-9 | 1,6.10-9 | 1,0.10-9 | 6,0.10-10 | 5,0.10-10 |
| S | 0,020 | 5,1.10-9 | 0,010 | 3,4.10-9 | 1,8.10-9 | 1,1.10-9 | 6,6.10-10 | 5,5.10-10 |
| Zn‑63 | 0,635 h | F | 1,000 | 2,1.10-10 | 0,500 | 1,4.10-10 | 6,5.10-11 | 4,0.10-11 | 2,4.10-11 | 2,0.10-11 |
| M | 0,200 | 3,4.10-10 | 0,100 | 2,3.10-10 | 1,0.10-10 | 6,6.10-11 | 4,2.10-11 | 3,5.10-11 |
| S | 0,020 | 3,6.10-10 | 0,010 | 2,4.10-10 | 1,1.10-10 | 6,9.10-11 | 4,4.10-11 | 3,7.10-11 |
| Zn‑65 | 244 d | F | 1,000 | 1,5.10-8 | 0,500 | 1,0.10-8 | 5,7.10-9 | 3,8.10-9 | 2,5.10-9 | 2,2.10-9 |
| M | 0,200 | 8,5.10-9 | 0,100 | 6,5.10-9 | 3,7.10-9 | 2,4.10-9 | 1,9.10-9 | 1,6.10-9 |
| S | 0,020 | 7,6.10-9 | 0,010 | 6,7.10-9 | 4,4.10-9 | 2,9.10-9 | 2,4.10-9 | 2,0.10-9 |
| Zn‑69 | 0,950 h | F | 1,000 | 1,1.10-10 | 0,500 | 7,4.10-11 | 3,2.10-11 | 2,1.10-11 | 1,2.10-11 | 1,1.10-11 |
| M | 0,200 | 2,2.10-10 | 0,100 | 1,4.10-10 | 6,5.10-11 | 4,4.10-11 | 3,1.10-11 | 2,6.10-11 |
| S | 0,020 | 2,3.10-10 | 0,010 | 1,5.10-10 | 6,9.10-11 | 4,7.10-11 | 3,4.10-11 | 2,8.10-11 |
| Zn‑69m | 13,8 h | F | 1,000 | 6,6.10-10 | 0,500 | 6,7.10-10 | 3,0.10-10 | 1,8.10-10 | 9,9.10-11 | 8,2.10-11 |
| M | 0,200 | 2,1.10-9 | 0,100 | 1,5.10-9 | 7,5.10-10 | 5,0.10-10 | 3,0.10-10 | 2,4.10-10 |
| S | 0,020 | 2,2.10-9 | 0,010 | 1,7.10-9 | 8,2.10-10 | 5,4.10-10 | 3,3.10-10 | 2,7.10-10 |
| Zn‑71m | 3,92 h | F | 1,000 | 6,2.10-10 | 0,500 | 5,5.10-10 | 2,6.10-10 | 1,6.10-10 | 9,1.10-11 | 7,4.10-11 |
| M | 0,200 | 1,3.10-9 | 0,100 | 9,4.10-10 | 4,6.10-10 | 2,9.10-10 | 1,9.10-10 | 1,5.10-10 |
| S | 0,020 | 1,4.10-9 | 0,010 | 1,0.10-9 | 4,9.10-10 | 3,1.10-10 | 2,0.10-10 | 1,6.10-10 |
| Zn‑72 | 1,94 d | F | 1,000 | 4,3.10-9 | 0,500 | 3,5.10-9 | 1,7.10-9 | 1,0.10-9 | 5,9.10-10 | 4,9.10-10 |
| M | 0,200 | 8,8.10-9 | 0,100 | 6,5.10-9 | 3,4.10-9 | 2,3.10-9 | 1,5.10-9 | 1,2.10-9 |
| S | 0,020 | 9,7.10-9 | 0,010 | 7,0.10-9 | 3,6.10-9 | 2,4.10-9 | 1,6.10-9 | 1,3.10-9 |
| **Gálium** | | | | | | | | | | |
| Ga‑65 | 0,253 h | F | 0,010 | 1,1.10-10 | 0,001 | 7,3.10-11 | 3,4.10-11 | 2,1.10-11 | 1,3.10-11 | 1,1.10-11 |
| M | 1,6.10-10 | 1,1.10-10 | 4,8.10-11 | 3,1.10-11 | 2,0.10-11 | 1,7.10-11 |
| Ga‑66 | 9,40 h | F | 2,8.10-9 | 2,0.10-9 | 9,2.10-10 | 5,7.10-10 | 3,0.10-10 | 2,5.10-10 |
| M | 4,5.10-9 | 3,1.10-9 | 1,5.10-9 | 9,2.10-10 | 5,3.10-10 | 4,4.10-10 |
| Ga‑67 | 3,26 d | F | 6,4.10-10 | 4,6.10-10 | 2,2.10-10 | 1,4.10-10 | 7,7.10-11 | 6,4.10-11 |
| M | 1,4.10-9 | 1,0.10-9 | 5,0.10-10 | 3,6.10-10 | 3,0.10-10 | 2,4.10-10 |
| Ga‑68 | 1,13 h | F | 2,9.10-10 | 1,9.10-10 | 8,8.10-11 | 5,4.10-11 | 3,1.10-11 | 2,6.10-11 |
| M | 4,6.10-10 | 3,1.10-10 | 1,4.10-10 | 9,2.10-11 | 5,9.10-11 | 4,9.10-11 |
| Ga‑70 | 0,353 h | F | 9,5.10-11 | 6,0.10-11 | 2,6.10-11 | 1,6.10-11 | 1,0.10-11 | 8,8.10-12 |
| M | 1,5.10-10 | 9,6.10-11 | 4,3.10-11 | 2,8.10-11 | 1,8.10-11 | 1,6.10-11 |
| Ga‑72 | 14,1 h | F | 2,9.10-9 | 2,2.10-9 | 1,0.10-9 | 6,4.10-10 | 3,6.10-10 | 2,9.10-10 |
|  |  | M | 0,010 | 4,5.10-9 | 0,001 | 3,3.10-9 | 1,6.10-9 | 1,0.10-9 | 6,5.10-10 | 5,3.10-10 |
| Ga‑73 | 4,91 h | F | 6,7.10-10 | 4,5.10-10 | 2,0.10-10 | 1,2.10-10 | 6,4.10-11 | 5,4.10-11 |
| M | 1,2.10-9 | 8,4.10-10 | 4,0.10-10 | 2,6.10-10 | 1,7.10-10 | 1,4.10-10 |
| **Germánium** | | | | | | | | | | |
| Ge‑66 | 2,27 h | F | 1,000 | 4,5.10-10 | 1,000 | 3,5.10-10 | 1,8.10-10 | 1,1.10-10 | 6,7.10-11 | 5,4.10-11 |
| M | 6,4.10-10 | 4,8.10-10 | 2,5.10-10 | 1,6.10-10 | 1,1.10-10 | 9,1.10-11 |
| Ge‑67 | 0,312 h | F | 1,7.10-10 | 1,1.10-10 | 4,9.10-11 | 3,1.10-11 | 1,8.10-11 | 1,5.10-11 |
| M | 2,5.10-10 | 1,6.10-10 | 7,3.10-11 | 4,6.10-11 | 2,9.10-11 | 2,5.10-11 |
| Ge‑68 | 288 d | F | 5,4.10-9 | 3,8.10-9 | 1,8.10-9 | 1,1.10-9 | 6,3.10-10 | 5,2.10-10 |
| M | 6,0.10-8 | 5,0.10-8 | 3,0.10-8 | 2,0.10-8 | 1,6.10-8 | 1,4.10-8 |
| Ge‑69 | 1,63 d | F | 1,2.10-9 | 9,0.10-10 | 4,6.10-10 | 2,8.10-10 | 1,7.10-10 | 1,3.10-10 |
| M | 1,8.10-9 | 1,4.10-9 | 7,4.10-10 | 4,9.10-10 | 3,6.10-10 | 2,9.10-10 |
| Ge‑71 | 11,8 d | F | 6,0.10-11 | 4,3.10-11 | 2,0.10-11 | 1,1.10-11 | 6,1.10-12 | 4,8.10-12 |
| M | 1,2.10-10 | 8,6.10-11 | 4,1.10-11 | 2,4.10-11 | 1,3.10-11 | 1,1.10-11 |
| Ge‑75 | 1,38 h | F | 1,6.10-10 | 1,0.10-10 | 4,3.10-11 | 2,8.10-11 | 1,7.10-11 | 1,5.10-11 |
| M | 2,9.10-10 | 1,9.10-10 | 8,9.10-11 | 6,1.10-11 | 4,4.10-11 | 3,6.10-11 |
| Ge‑77 | 11,3 h | F | 1,3.10-9 | 9,5.10-10 | 4,7.10-10 | 2,9.10-10 | 1,7.10-10 | 1,4.10-10 |
| M | 2,3.10-9 | 1,7.10-9 | 8,8.10-10 | 6,0.10-10 | 4,5.10-10 | 3,7.10-10 |
| Ge‑78 | 1,45 h | F | 4,3.10-10 | 2,9.10-10 | 1,4.10-10 | 8,9.10-11 | 5,5.10-11 | 4,5.10-11 |
| M | 7,3.10-10 | 5,0.10-10 | 2,5.10-10 | 1,6.10-10 | 1,2.10-10 | 9,5.10-11 |
| **Arzén** | | | | | | | | | | |
| As‑69 | 0,253 h | M | 1,000 | 2,1.10-10 | 0,500 | 1,4.10-10 | 6,3.10-11 | 4,0.10-11 | 2,5.10-11 | 2,1.10-11 |
| As‑70 | 0,876 h | 5,7.10-10 | 4,3.10-10 | 2,1.10-10 | 1,3.10-10 | 8,3.10-11 | 6,7.10-11 |
| As‑71 | 2,70 d | 2,2.10-9 | 1,9.10-9 | 1,0.10-9 | 6,8.10-10 | 5,0.10-10 | 4,0.10-10 |
| As‑72 | 1,08 d | 5,9.10-9 | 5,7.10-9 | 2,7.10-9 | 1,7.10-9 | 1,1.10-9 | 9,0.10-10 |
| As‑73 | 80,3 d | 5,4.10-9 | 4,0.10-9 | 2,3.10-9 | 1,5.10-9 | 1,2.10-9 | 1,0.10-9 |
| As‑74 | 17,8 d | 1,1.10-8 | 8,4.10-9 | 4,7.10-9 | 3,3.10-9 | 2,6.10-9 | 2,1.10-9 |
| As‑76 | 1,10 d | 5,1.10-9 | 4,6.10-9 | 2,2.10-9 | 1,4.10-9 | 8,8.10-10 | 7,4.10-10 |
| As‑77 | 1,62 d | 2,2.10-9 | 1,7.10-9 | 8,9.10-10 | 6,2.10-10 | 5,0.10-10 | 3,9.10-10 |
| As‑78 | 1,51 h | 8,0.10-10 | 5,8.10-10 | 2,7.10-10 | 1,7.10-10 | 1,1.10-10 | 8,9.10-11 |
| **Selén** | | | | | | | | | | |
| Se‑70 | 0,683 h | F | 1,000 | 3,9.10-10 | 0,800 | 3,0.10-10 | 1,5.10-10 | 9,0.10-11 | 5,1.10-11 | 4,2.10-11 |
| M | 0,200 | 6,5.10-10 | 0,100 | 4,7.10-10 | 2,3.10-10 | 1,4.10-10 | 8,9.10-11 | 7,3.10-11 |
| S | 0,020 | 6,8.10-10 | 0,010 | 4,8.10-10 | 2,3.10-10 | 1,5.10-10 | 9,4.10-11 | 7,6.10-11 |
| Se‑73 | 7,15 h | F | 1,000 | 7,7.10-10 | 0,800 | 6,5.10-10 | 3,3.10-10 | 2,1.10-10 | 1,0.10-10 | 8,0.10-11 |
| M | 0,200 | 1,6.10-9 | 0,100 | 1,2.10-9 | 5,9.10-10 | 3,8.10-10 | 2,4.10-10 | 1,9.10-10 |
| S | 0,020 | 1,8.10-9 | 0,010 | 1,3.10-9 | 6,3.10-10 | 4,0.10-10 | 2,6.10-10 | 2,1.10-10 |
| Se‑73m | 0,650 h | F | 1,000 | 9,3.10-11 | 0,800 | 7,2.10-11 | 3,5.10-11 | 2,3.10-11 | 1,1.10-11 | 9,2.10-12 |
| M | 0,200 | 1,8.10-10 | 0,100 | 1,3.10-10 | 6,1.10-11 | 3,9.10-11 | 2,5.10-11 | 2,0.10-11 |
| S | 0,020 | 1,9.10-10 | 0,010 | 1,3.10-10 | 6,5.10-11 | 4,1.10-11 | 2,6.10-11 | 2,2.10-11 |
| Se‑75 | 120 d | F | 1,000 | 7,8.10-9 | 0,800 | 6,0.10-9 | 3,4.10-9 | 2,5.10-9 | 1,2.10-9 | 1,0.10-9 |
| M | 0,200 | 5,4.10-9 | 0,100 | 4,5.10-9 | 2,5.10-9 | 1,7.10-9 | 1,3.10-9 | 1,1.10-9 |
| S | 0,020 | 5,6.10-9 | 0,010 | 4,7.10-9 | 2,9.10-9 | 2,0.10-9 | 1,6.10-9 | 1,3.10-9 |
| Se‑79 | 6,50.104 r | F | 1,000 | 1,6.10-8 | 0,800 | 1,3.10-8 | 7,7.10-9 | 5,6.10-9 | 1,5.10-9 | 1,1.10-9 |
| M | 0,200 | 1,4.10-8 | 0,100 | 1,1.10-8 | 6,9.10-9 | 4,9.10-9 | 3,3.10-9 | 2,6.10-9 |
| S | 0,020 | 2,3.10-8 | 0,010 | 2,0.10-8 | 1,3.10-8 | 8,7.10-9 | 7,6.10-9 | 6,8.10-9 |
| Se‑81 | 0,308 h | F | 1,000 | 8,6.10-11 | 0,800 | 5,4.10-11 | 2,3.10-11 | 1,5.10-11 | 9,2.10-12 | 8,0.10-12 |
| M | 0,200 | 1,3.10-10 | 0,100 | 8,5.10-11 | 3,8.10-11 | 2,5.10-11 | 1,6.10-11 | 1,4.10-11 |
| S | 0,020 | 1,4.10-10 | 0,010 | 8,9.10-11 | 3,9.10-11 | 2,6.10-11 | 1,7.10-11 | 1,5.10-11 |
| Se‑81m | 0,954 h | F | 1,000 | 1,8.10-10 | 0,800 | 1,2.10-10 | 5,4.10-11 | 3,4.10-11 | 1,9.10-11 | 1,6.10-11 |
| M | 0,200 | 3,8.10-10 | 0,100 | 2,5.10-10 | 1,2.10-10 | 8,0.10-11 | 5,8.10-11 | 4,7.10-11 |
| S | 0,020 | 4,1.10-10 | 0,010 | 2,7.10-10 | 1,3.10-10 | 8,5.10-11 | 6,2.10-11 | 5,1.10-11 |
| Se‑83 | 0,375 h | F | 1,000 | 1,7.10-10 | 0,800 | 1,2.10-10 | 5,8.10-11 | 3,6.10-11 | 2,1.10-11 | 1,8.10-11 |
| M | 0,200 | 2,7.10-10 | 0,100 | 1,9.10-10 | 9,2.10-11 | 5,9.10-11 | 3,9.10-11 | 3,2.10-11 |
| S | 0,020 | 2,8.10-10 | 0,010 | 2,0.10-10 | 9,6.10-11 | 6,2.10-11 | 4,1.10-11 | 3,4.10-11 |
| **Bróm** | | | | | | | | | | |
| Br‑74 | 0,422 h | F | 1,000 | 2,5.10-10 | 1,000 | 1,8.10-10 | 8,6.10-11 | 5,3.10-11 | 3,2.10-11 | 2,6.10-11 |
| M | 3,6.10-10 | 2,5.10-10 | 1,2.10-10 | 7,5.10-11 | 4,6.10-11 | 3,8.10-11 |
| Br‑74m | 0,691 h | F | 4,0.10-10 | 2,8.10-10 | 1,3.10-10 | 8,1.10-11 | 4,8.10-11 | 3,9.10-11 |
| M | 5,9.10-10 | 4,1.10-10 | 1,9.10-10 | 1,2.10-10 | 7,5.10-11 | 6,2.10-11 |
| Br‑75 | 1,63 h | F | 2,9.10-10 | 2,1.10-10 | 9,7.10-11 | 5,9.10-11 | 3,5.10-11 | 2,9.10-11 |
| M | 4,5.10-10 | 3,1.10-10 | 1,5.10-10 | 9,7.10-11 | 6,5.10-11 | 5,3.10-11 |
| Br‑76 | 16,2 h | F | 2,2.10-9 | 1,7.10-9 | 8,4.10-10 | 5,1.10-10 | 3,0.10-10 | 2,4.10-10 |
| M | 3,0.10-9 | 2,3.10-9 | 1,2.10-9 | 7,5.10-10 | 5,0.10-10 | 4,1.10-10 |
| Br‑77 | 2,33 d | F | 5,3.10-10 | 4,4.10-10 | 2,2.10-10 | 1,3.10-10 | 7,7.10-11 | 6,2.10-11 |
| M | 6,3.10-10 | 5,1.10-10 | 2,7.10-10 | 1,6.10-10 | 1,1.10-10 | 8,4.10-11 |
| Br‑80 | 0,290 h | F | 7,1.10-11 | 4,4.10-11 | 1,8.10-11 | 1,2.10-11 | 6,9.10-12 | 5,9.10-12 |
| M | 1,1.10-10 | 6,5.10-11 | 2,8.10-11 | 1,8.10-11 | 1,1.10-11 | 9,4.10-12 |
| Br‑80m | 4,42 h | F | 4,3.10-10 | 2,8.10-10 | 1,2.10-10 | 7,2.10-11 | 4,0.10-11 | 3,3.10-11 |
| M | 6,8.10-10 | 4,5.10-10 | 2,1.10-10 | 1,4.10-10 | 9,3.10-11 | 7,6.10-11 |
| Br‑82 | 1,47 d | F | 2,7.10-9 | 2,2.10-9 | 1,2.10-9 | 7,0.10-10 | 4,2.10-10 | 3,5.10-10 |
| M | 3,8.10-9 | 3,0.10-9 | 1,7.10-9 | 1,1.10-9 | 7,9.10-10 | 6,3.10-10 |
| Br‑83 | 2,39 h | F | 1,7.10-10 | 1,1.10-10 | 4,7.10-11 | 3,0.10-11 | 1,8.10-11 | 1,6.10-11 |
| M | 3,5.10-10 | 2,3.10-10 | 1,1.10-10 | 7,7.10-11 | 5,9.10-11 | 4,8.10-11 |
| Br‑84 | 0,530 h | F | 2,4.10-10 | 1,6.10-10 | 7,1.10-11 | 4,4.10-11 | 2,6.10-11 | 2,2.10-11 |
| M | 3,7.10-10 | 2,4.10-10 | 1,1.10-10 | 6,9.10-11 | 4,4.10-11 | 3,7.10-11 |
| **Rubídium** | | | | | | | | | | |
| Rb‑79 | 0,382 h | F | 1,000 | 1,6.10-10 | 1,000 | 1,1.10-10 | 5,0.10-11 | 3,2.10-11 | 1,9.10-11 | 1,6.10-11 |
| Rb‑81 | 4,58 h | 3,2.10-10 | 2,5.10-10 | 1,2.10-10 | 7,1.10-11 | 4,2.10-11 | 3,4.10-11 |
| Rb‑81m | 0,533 h | 6,2.10-11 | 4,6.10-11 | 2,2.10-11 | 1,4.10-11 | 8,5.10-12 | 7,0.10-12 |
| Rb‑82m | 6,20 h | 8,6.10-10 | 7,3.10-10 | 3,9.10-10 | 2,3.10-10 | 1,4.10-10 | 1,1.10-10 |
| Rb‑83 | 86,2 d | 4,9.10-9 | 3,8.10-9 | 2,0.10-9 | 1,3.10-9 | 7,9.10-10 | 6,9.10-10 |
| Rb‑84 | 32,8 d | 8,6.10-9 | 6,4.10-9 | 3,1.10-9 | 2,0.10-9 | 1,2.10-9 | 1,0.10-9 |
| Rb‑86 | 18,6 d | 1,2.10-8 | 7,7.10-9 | 3,4.10-9 | 2,0.10-9 | 1,1.10-9 | 9,3.10-10 |
| Rb‑87 | 4,70.1010 r | 6,0.10-9 | 4,1.10-9 | 1,8.10-9 | 1,1.10-9 | 6,0.10-10 | 5,0.10-10 |
| Rb‑88 | 0,297 h | 1,9.10-10 | 1,2.10-10 | 5,2.10-11 | 3,2.10-11 | 1,9.10-11 | 1,6.10-11 |
| Rb‑89 | 0,253 h | 1,4.10-10 | 9,3.10-11 | 4,3.10-11 | 2,7.10-11 | 1,6.10-11 | 1,4.10-11 |
| **Stroncium** | | | | | | | | | | |
| Sr‑80 | 1,67 h | F | 0,600 | 7,8.10-10 | 0,300 | 5,4.10-10 | 2,4.10-10 | 1,4.10-10 | 7,9.10-11 | 7,1.10-11 |
| M | 0,200 | 1,4.10-9 | 0,100 | 9,0.10-10 | 4,1.10-10 | 2,5.10-10 | 1,5.10-10 | 1,3.10-10 |
| S | 0,020 | 1,5.10-9 | 0,010 | 9,4.10-10 | 4,3.10-10 | 2,7.10-10 | 1,6.10-10 | 1,4.10-10 |
| Sr‑81 | 0,425 h | F | 0,600 | 2,1.10-10 | 0,300 | 1,5.10-10 | 6,7.10-11 | 4,1.10-11 | 2,4.10-11 | 2,1.10-11 |
| M | 0,200 | 3,3.10-10 | 0,100 | 2,2.10-10 | 1,0.10-10 | 6,6.10-11 | 4,2.10-11 | 3,5.10-11 |
| S | 0,020 | 3,4.10-10 | 0,010 | 2,3.10-10 | 1,1.10-10 | 6,9.10-11 | 4,4.10-11 | 3,7.10-11 |
| Sr‑82 | 25,0 d | F | 0,600 | 2,8.10-8 | 0,300 | 1,5.10-8 | 6,6.10-9 | 4,6.10-9 | 3,2.10-9 | 2,1.10-9 |
| M | 0,200 | 5,5.10-8 | 0,100 | 4,0.10-8 | 2,1.10-8 | 1,4.10-8 | 1,0.10-8 | 8,9.10-9 |
| S | 0,020 | 6,1.10-8 | 0,010 | 4,6.10-8 | 2,5.10-8 | 1,7.10-8 | 1,2.10-8 | 1,1.10-8 |
| Sr‑83 | 1,35 d | F | 0,600 | 1,4.10-9 | 0,300 | 1,1.10-9 | 5,5.10-10 | 3,4.10-10 | 2,0.10-10 | 1,6.10-10 |
| M | 0,200 | 2,5.10-9 | 0,100 | 1,9.10-9 | 9,5.10-10 | 6,0.10-10 | 3,9.10-10 | 3,1.10-10 |
| S | 0,020 | 2,8.10-9 | 0,010 | 2,0.10-9 | 1,0.10-9 | 6,5.10-10 | 4,2.10-10 | 3,4.10-10 |
| Sr‑85 | 64,8 d | F | 0,600 | 4,4.10-9 | 0,300 | 2,3.10-9 | 1,1.10-9 | 9,6.10-10 | 8,3.10-10 | 3,8.10-10 |
| M | 0,200 | 4,3.10-9 | 0,100 | 3,1.10-9 | 1,8.10-9 | 1,2.10-9 | 8,8.10-10 | 6,4.10-10 |
| S | 0,020 | 4,4.10-9 | 0,010 | 3,7.10-9 | 2,2.10-9 | 1,3.10-9 | 1,0.10-9 | 8,1.10-10 |
| Sr‑85m | 1,16 h | F | 0,600 | 2,4.10-11 | 0,300 | 1,9.10-11 | 9,6.10-12 | 6,0.10-12 | 3,7.10-12 | 2,9.10-12 |
| M | 0,200 | 3,1.10-11 | 0,100 | 2,5.10-11 | 1,3.10-11 | 8,0.10-12 | 5,1.10-12 | 4,1.10-12 |
| S | 0,020 | 3,2.10-11 | 0,010 | 2,6.10-11 | 1,3.10-11 | 8,3.10-12 | 5,4.10-12 | 4,3.10-12 |
| Sr‑87m | 2,80 h | F | 0,600 | 9,7.10-11 | 0,300 | 7,8.10-11 | 3,8.10-11 | 2,3.10-11 | 1,3.10-11 | 1,1.10-11 |
| M | 0,200 | 1,6.10-10 | 0,100 | 1,2.10-10 | 5,9.10-11 | 3,8.10-11 | 2,5.10-11 | 2,0.10-11 |
| S | 0,020 | 1,7.10-10 | 0,010 | 1,2.10-10 | 6,2.10-11 | 4,0.10-11 | 2,6.10-11 | 2,1.10-11 |
| Sr‑89 | 50,5 d | F | 0,600 | 1,5.10-8 | 0,300 | 7,3.10-9 | 3,2.10-9 | 2,3.10-9 | 1,7.10-9 | 1,0.10-9 |
| M | 0,200 | 3,3.10-8 | 0,100 | 2,4.10-8 | 1,3.10-8 | 9,1.10-9 | 7,3.10-9 | 6,1.10-9 |
| S | 0,020 | 3,9.10-8 | 0,010 | 3,0.10-8 | 1,7.10-8 | 1,2.10-8 | 9,3.10-9 | 7,9.10-9 |
| Sr‑90 | 29,1 r | F | 0,600 | 1,3.10-7 | 0,300 | 5,2.10-8 | 3,1.10-8 | 4,1.10-8 | 5,3.10-8 | 2,4.10-8 |
| M | 0,200 | 1,5.10-7 | 0,100 | 1,1.10-7 | 6,5.10-8 | 5,1.10-8 | 5,0.10-8 | 3,6.10-8 |
| S | 0,020 | 4,2.10-7 | 0,010 | 4,0.10-7 | 2,7.10-7 | 1,8.10-7 | 1,6.10-7 | 1,6.10-7 |
| Sr‑91 | 9,50 h | F | 0,600 | 1,4.10-9 | 0,300 | 1,1.10-9 | 5,2.10-10 | 3,1.10-10 | 1,7.10-10 | 1,6.10-10 |
| M | 0,200 | 3,1.10-9 | 0,100 | 2,2.10-9 | 1,1.10-9 | 6,9.10-10 | 4,4.10-10 | 3,7.10-10 |
| S | 0,020 | 3,5.10-9 | 0,010 | 2,5.10-9 | 1,2.10-9 | 7,7.10-10 | 4,9.10-10 | 4,1.10-10 |
| Sr‑92 | 2,71 h | F | 0,600 | 9,0.10-10 | 0,300 | 7,1.10-10 | 3,3.10-10 | 2,0.10-10 | 1,0.10-10 | 9,8.10-11 |
| M | 0,200 | 1,9.10-9 | 0,100 | 1,4.10-9 | 6,5.10-10 | 4,1.10-10 | 2,5.10-10 | 2,1.10-10 |
| S | 0,020 | 2,2.10-9 | 0,010 | 1,5.10-9 | 7,0.10-10 | 4,5.10-10 | 2,7.10-10 | 2,3.10-10 |
| **Ytrium** | | | | | | | | | | |
| Y‑86 | 14,7 h | M | 0,001 | 3,7.10-9 | 1,0.10-4 | 2,9.10-9 | 1,5.10-9 | 9,3.10-10 | 5,6.10-10 | 4,5.10-10 |
| S | 3,8.10-9 | 3,0.10-9 | 1,5.10-9 | 9,6.10-10 | 5,8.10-10 | 4,7.10-10 |
| Y‑86m | 0,800 h | M | 2,2.10-10 | 1,7.10-10 | 8,7.10-11 | 5,6.10-11 | 3,4.10-11 | 2,7.10-11 |
| S | 2,3.10-10 | 1,8.10-10 | 9,0.10-11 | 5,7.10-11 | 3,5.10-11 | 2,8.10-11 |
| Y‑87 | 3,35 d | M | 2,7.10-9 | 2,1.10-9 | 1,1.10-9 | 7,0.10-10 | 4,7.10-10 | 3,7.10-10 |
| S | 2,8.10-9 | 2,2.10-9 | 1,1.10-9 | 7,3.10-10 | 5,0.10-10 | 3,9.10-10 |
| Y‑88 | 107 d | M | 1,9.10-8 | 1,6.10-8 | 1,0.10-8 | 6,7.10-9 | 4,9.10-9 | 4,1.10-9 |
| S | 2,0.10-8 | 1,7.10-8 | 9,8.10-9 | 6,6.10-9 | 5,4.10-9 | 4,4.10-9 |
| Y‑90 | 2,67 d | M | 1,3.10-8 | 8,4.10-9 | 4,0.10-9 | 2,6.10-9 | 1,7.10-9 | 1,4.10-9 |
| S | 1,3.10-8 | 8,8.10-9 | 4,2.10-9 | 2,7.10-9 | 1,8.10-9 | 1,5.10-9 |
| Y‑90m | 3,19 h | M | 7,2.10-10 | 5,7.10-10 | 2,8.10-10 | 1,8.10-10 | 1,1.10-10 | 9,5.10-11 |
| S | 7,5.10-10 | 6,0.10-10 | 2,9.10-10 | 1,9.10-10 | 1,2.10-10 | 1,0.10-10 |
| Y‑91 | 58,5 d | M | 3,9.10-8 | 3,0.10-8 | 1,6.10-8 | 1,1.10-8 | 8,4.10-9 | 7,1.10-9 |
| S | 4,3.10-8 | 3,4.10-8 | 1,9.10-8 | 1,3.10-8 | 1,0.10-8 | 8,9.10-9 |
| Y‑91m | 0,828 h | M | 7,0.10-11 | 5,5.10-11 | 2,9.10-11 | 1,8.10-11 | 1,2.10-11 | 1,0.10-11 |
| S | 7,4.10-11 | 5,9.10-11 | 3,1.10-11 | 2,0.10-11 | 1,4.10-11 | 1,1.10-11 |
| Y‑92 | 3,54 h | M | 1,8.10-9 | 1,2.10-9 | 5,3.10-10 | 3,3.10-10 | 2,0.10-10 | 1,7.10-10 |
| S | 1,9.10-9 | 1,2.10-9 | 5,5.10-10 | 3,5.10-10 | 2,1.10-10 | 1,8.10-10 |
| Y‑93 | 10,1 h | M | 4,4.10-9 | 2,9.10-9 | 1,3.10-9 | 8,1.10-10 | 4,7.10-10 | 4,0.10-10 |
| S | 4,6.10-9 | 3,0.10-9 | 1,4.10-9 | 8,5.10-10 | 5,0.10-10 | 4,2.10-10 |
| Y‑94 | 0,318 h | M | 2,8.10-10 | 1,8.10-10 | 8,1.10-11 | 5,0.10-11 | 3,1.10-11 | 2,7.10-11 |
| S | 2,9.10-10 | 1,9.10-10 | 8,4.10-11 | 5,2.10-11 | 3,3.10-11 | 2,8.10-11 |
| Y‑95 | 0,178 h | M | 1,5.10-10 | 9,8.10-11 | 4,4.10-11 | 2,8.10-11 | 1,8.10-11 | 1,5.10-11 |
| S | 1,6.10-10 | 1,0.10-10 | 4,5.10-11 | 2,9.10-11 | 1,8.10-11 | 1,6.10-11 |
| **Zirkón** | | | | | | | | | | |
| Zr‑86 | 16,5 h | F | 0,020 | 2,4.10-9 | 0,002 | 1,9.10-9 | 9,5.10-10 | 5,9.10-10 | 3,4.10-10 | 2,7.10-10 |
| M | 3,4.10-9 | 2,6.10-9 | 1,3.10-9 | 8,4.10-10 | 5,2.10-10 | 4,2.10-10 |
| S | 3,5.10-9 | 2,7.10-9 | 1,4.10-9 | 8,7.10-10 | 5,4.10-10 | 4,3.10-10 |
| Zr‑88 | 83,4 d | F | 6,9.10-9 | 8,3.10-9 | 5,6.10-9 | 4,7.10-9 | 3,6.10-9 | 3,5.10-9 |
| M | 8,5.10-9 | 7,8.10-9 | 5,1.10-9 | 3,6.10-9 | 3,0.10-9 | 2,6.10-9 |
| S | 1,3.10-8 | 1,2.10-8 | 7,7.10-9 | 5,2.10-9 | 4,3.10-9 | 3,6.10-9 |
| Zr‑89 | 3,27 d | F | 2,6.10-9 | 2,0.10-9 | 9,9.10-10 | 6,1.10-10 | 3,6.10-10 | 2,9.10-10 |
| M | 3,7.10-9 | 2,8.10-9 | 1,5.10-9 | 9,6.10-10 | 6,5.10-10 | 5,2.10-10 |
| S | 3,9.10-9 | 2,9.10-9 | 1,5.10-9 | 1,0.10-9 | 6,8.10-10 | 5,5.10-10 |
| Zr‑93 | 1,53.106 r | F | 3,5.10-9 | 4,8.10-9 | 5,3.10-9 | 9,7.10-9 | 1,8.10-8 | 2,5.10-8 |
| M | 3,3.10-9 | 3,1.10-9 | 2,8.10-9 | 4,1.10-9 | 7,5.10-9 | 1,0.10-8 |
| S | 7,0.10-9 | 6,4.10-9 | 4,5.10-9 | 3,3.10-9 | 3,3.10-9 | 3,3.10-9 |
| Zr‑95 | 64,0 d | F | 1,2.10-8 | 1,1.10-8 | 6,4.10-9 | 4,2.10-9 | 2,8.10-9 | 2,5.10-9 |
| M | 2,0.10-8 | 1,6.10-8 | 9,7.10-9 | 6,8.10-9 | 5,9.10-9 | 4,8.10-9 |
| S | 2,4.10-8 | 1,9.10-8 | 1,2.10-8 | 8,3.10-9 | 7,3.10-9 | 5,9.10-9 |
| Zr‑97 | 16,9 h | F | 5,0.10-9 | 3,4.10-9 | 1,5.10-9 | 9,1.10-10 | 4,8.10-10 | 3,9.10-10 |
| M | 7,8.10-9 | 5,3.10-9 | 2,8.10-9 | 1,8.10-9 | 1,1.10-9 | 9,2.10-10 |
| S | 8,2.10-9 | 5,6.10-9 | 2,9.10-9 | 1,9.10-9 | 1,2.10-9 | 8,9.10-10 |
| **Niób** | | | | | | | | | | |
| Nb‑88 | 0,238 h | F | 0,020 | 1,8.10-10 | 0,010 | 1,3.10-10 | 6,3.10-11 | 3,9.10-11 | 2,4.10-11 | 1,9.10-11 |
| M | 2,5.10-10 | 1,8.10-10 | 8,5.10-11 | 5,3.10-11 | 3,3.10-11 | 2,7.10-11 |
| S | 2,6.10-10 | 1,8.10-10 | 8,7.10-11 | 5,5.10-11 | 3,5.10-11 | 2,8.10-11 |
| Nb‑89 | 2,03 h | F | 7,0.10-10 | 4,8.10-10 | 2,2.10-10 | 1,3.10-10 | 7,4.10-11 | 6,1.10-11 |
| M | 1,1.10-9 | 7,6.10-10 | 3,6.10-10 | 2,2.10-10 | 1,4.10-10 | 1,1.10-10 |
| S | 1,2.10-9 | 7,9.10-10 | 3,7.10-10 | 2,3.10-10 | 1,5.10-10 | 1,2.10-10 |
| Nb‑89m | 1,10 h | F | 4,0.10-10 | 2,9.10-10 | 1,4.10-10 | 8,3.10-11 | 4,8.10-11 | 3,9.10-11 |
| M | 6,2.10-10 | 4,3.10-10 | 2,1.10-10 | 1,3.10-10 | 8,2.10-11 | 6,8.10-11 |
| S | 6,4.10-10 | 4,4.10-10 | 2,1.10-10 | 1,4.10-10 | 8,6.10-11 | 7,1.10-11 |
| Nb‑90 | 14,6 h | F | 3,5.10-9 | 2,7.10-9 | 1,3.10-9 | 8,2.10-10 | 4,7.10-10 | 3,8.10-10 |
| M | 5,1.10-9 | 3,9.10-9 | 1,9.10-9 | 1,3.10-9 | 7,8.10-10 | 6,3.10-10 |
| S | 5,3.10-9 | 4,0.10-9 | 2,0.10-9 | 1,3.10-9 | 8,1.10-10 | 6,6.10-10 |
| Nb‑93m | 13,6 r | F | 1,8.10-9 | 1,4.10-9 | 7,0.10-10 | 4,4.10-10 | 2,7.10-10 | 2,2.10-10 |
| M | 3,1.10-9 | 2,4.10-9 | 1,3.10-9 | 8,2.10-10 | 5,9.10-10 | 5,1.10-10 |
| S | 7,4.10-9 | 6,5.10-9 | 4,0.10-9 | 2,5.10-9 | 1,9.10-9 | 1,8.10-9 |
| Nb‑94 | 2,03.104 r | F | 3,1.10-8 | 2,7.10-8 | 1,5.10-8 | 1,0.10-8 | 6,7.10-9 | 5,8.10-9 |
| M | 4,3.10-8 | 3,7.10-8 | 2,3.10-8 | 1,6.10-8 | 1,3.10-8 | 1,1.10-8 |
| S | 1,2.10-7 | 1,2.10-7 | 8,3.10-8 | 5,8.10-8 | 5,2.10-8 | 4,9.10-8 |
| Nb‑95 | 35,1 d | F | 4,1.10-9 | 3,1.10-9 | 1,6.10-9 | 1,2.10-9 | 7,5.10-10 | 5,7.10-10 |
| M | 6,8.10-9 | 5,2.10-9 | 3,1.10-9 | 2,2.10-9 | 1,9.10-9 | 1,5.10-9 |
| S | 7,7.10-9 | 5,9.10-9 | 3,6.10-9 | 2,5.10-9 | 2,2.10-9 | 1,8.10-9 |
| Nb‑95m | 3,61 d | F | 2,3.10-9 | 1,6.10-9 | 7,0.10-10 | 4,2.10-10 | 2,4.10-10 | 2,0.10-10 |
| M | 4,3.10-9 | 3,1.10-9 | 1,7.10-9 | 1,2.10-9 | 1,0.10-9 | 7,9.10-10 |
| S | 4,6.10-9 | 3,4.10-9 | 1,9.10-9 | 1,3.10-9 | 1,1.10-9 | 8,8.10-10 |
| Nb‑96 | 23,3 h | F | 3,1.10-9 | 2,4.10-9 | 1,2.10-9 | 7,3.10-10 | 4,2.10-10 | 3,4.10-10 |
| M | 4,7.10-9 | 3,6.10-9 | 1,8.10-9 | 1,2.10-9 | 7,8.10-10 | 6,3.10-10 |
| S | 4,9.10-9 | 3,7.10-9 | 1,9.10-9 | 1,2.10-9 | 8,3.10-10 | 6,6.10-10 |
| Nb‑97 | 1,20 h | F | 2,2.10-10 | 1,5.10-10 | 6,8.10-11 | 4,2.10-11 | 2,5.10-11 | 2,1.10-11 |
| M | 3,7.10-10 | 2,5.10-10 | 1,2.10-10 | 7,7.10-11 | 5,2.10-11 | 4,3.10-11 |
| S | 3,8.10-10 | 2,6.10-10 | 1,2.10-10 | 8,1.10-11 | 5,5.10-11 | 4,5.10-11 |
| Nb‑98 | 0,858 h | F | 3,4.10-10 | 2,4.10-10 | 1,1.10-10 | 6,9.10-11 | 4,1.10-11 | 3,3.10-11 |
| M | 5,2.10-10 | 3,6.10-10 | 1,7.10-10 | 1,1.10-10 | 6,8.10-11 | 5,6.10-11 |
| S | 5,3.10-10 | 3,7.10-10 | 1,8.10-10 | 1,1.10-10 | 7,1.10-11 | 5,8.10-11 |
| **Molybdén** | | | | | | | | | | |
| Mo‑90 | 5,67 h | F | 1,000 | 1,2.10-9 | 0,800 | 1,1.10-9 | 5,3.10-10 | 3,2.10-10 | 1,9.10-10 | 1,5.10-10 |
| M | 0,200 | 2,6.10-9 | 0,100 | 2,0.10-9 | 9,9.10-10 | 6,5.10-10 | 4,2.10-10 | 3,4.10-10 |
| S | 0,020 | 2,8.10-9 | 0,010 | 2,1.10-9 | 1,1.10-9 | 6,9.10-10 | 4,5.10-10 | 3,6.10-10 |
| Mo‑93 | 3,50.103 r | F | 1,000 | 3,1.10-9 | 0,800 | 2,6.10-9 | 1,7.10-9 | 1,3.10-9 | 1,1.10-9 | 1,0.10-9 |
| M | 0,200 | 2,2.10-9 | 0,100 | 1,8.10-9 | 1,1.10-9 | 7,9.10-10 | 6,6.10-10 | 5,9.10-10 |
| S | 0,020 | 6,0.10-9 | 0,010 | 5,8.10-9 | 4,0.10-9 | 2,8.10-9 | 2,4.10-9 | 2,3.10-9 |
| Mo‑93m | 6,85 h | F | 1,000 | 7,3.10-10 | 0,800 | 6,4.10-10 | 3,3.10-10 | 2,0.10-10 | 1,2.10-10 | 9,6.10-11 |
| M | 0,200 | 1,2.10-9 | 0,100 | 9,7.10-10 | 5,0.10-10 | 3,2.10-10 | 2,0.10-10 | 1,6.10-10 |
| S | 0,020 | 1,3.10-9 | 0,010 | 1,0.10-9 | 5,2.10-10 | 3,4.10-10 | 2,1.10-10 | 1,7.10-10 |
| Mo‑99 | 2,75 d | F | 1,000 | 2,3.10-9 | 0,800 | 1,7.10-9 | 7,7.10-10 | 4,7.10-10 | 2,6.10-10 | 2,2.10-10 |
| M | 0,200 | 6,0.10-9 | 0,100 | 4,4.10-9 | 2,2.10-9 | 1,5.10-9 | 1,1.10-9 | 8,9.10-10 |
| S | 0,020 | 6,9.10-9 | 0,010 | 4,8.10-9 | 2,4.10-9 | 1,7.10-9 | 1,2.10-9 | 9,9.10-10 |
| Mo‑101 | 0,244 h | F | 1,000 | 1,4.10-10 | 0,800 | 9,7.10-11 | 4,4.10-11 | 2,8.10-11 | 1,7.10-11 | 1,4.10-11 |
| M | 0,200 | 2,2.10-10 | 0,100 | 1,5.10-10 | 7,0.10-11 | 4,5.10-11 | 3,0.10-11 | 2,5.10-11 |
| S | 0,020 | 2,3.10-10 | 0,010 | 1,6.10-10 | 7,2.10-11 | 4,7.10-11 | 3,1.10-11 | 2,6.10-11 |
| **Technécium** | | | | | | | | | | |
| Tc‑93 | 2,75 h | F | 1,000 | 2,4.10-10 | 0,800 | 2,1.10-10 | 1,1.10-10 | 6,7.10-11 | 4,0.10-11 | 3,2.10-11 |
| M | 0,200 | 2,7.10-10 | 0,100 | 2,3.10-10 | 1,2.10-10 | 7,5.10-11 | 4,4.10-11 | 3,5.10-11 |
| S | 0,020 | 2,8.10-10 | 0,010 | 2,3.10-10 | 1,2.10-10 | 7,6.10-11 | 4,5.10-11 | 3,5.10-11 |
| Tc‑93m | 0,725 h | F | 1,000 | 1,2.10-10 | 0,800 | 9,8.10-11 | 4,9.10-11 | 2,9.10-11 | 1,8.10-11 | 1,4.10-11 |
|  |  | M | 0,200 | 1,4.10-10 | 0,100 | 1,1.10-10 | 5,4.10-11 | 3,4.10-11 | 2,1.10-11 | 1,7.10-11 |
| S | 0,020 | 1,4.10-10 | 0,010 | 1,1.10-10 | 5,4.10-11 | 3,4.10-11 | 2,1.10-11 | 1,7.10-11 |
| Tc‑94 | 4,88 h | F | 1,000 | 8,9.10-10 | 0,800 | 7,5.10-10 | 3,9.10-10 | 2,3.10-10 | 1,4.10-10 | 1,1.10-10 |
| M | 0,200 | 9,8.10-10 | 0,100 | 8,1.10-10 | 4,2.10-10 | 2,6.10-10 | 1,6.10-10 | 1,2.10-10 |
| S | 0,020 | 9,9.10-10 | 0,010 | 8,2.10-10 | 4,3.10-10 | 2,7.10-10 | 1,6.10-10 | 1,3.10-10 |
| Tc‑94m | 0,867 h | F | 1,000 | 4,8.10-10 | 0,800 | 3,4.10-10 | 1,6.10-10 | 8,6.10-11 | 5,2.10-11 | 4,1.10-11 |
| M | 0,200 | 4,4.10-10 | 0,100 | 3,0.10-10 | 1,4.10-10 | 8,8.10-11 | 5,5.10-11 | 4,5.10-11 |
| S | 0,020 | 4,3.10-10 | 0,010 | 3,0.10-10 | 1,4.10-10 | 8,8.10-11 | 5,6.10-11 | 4,6.10-11 |
| Tc‑95 | 20,0 h | F | 1,000 | 7,5.10-10 | 0,800 | 6,3.10-10 | 3,3.10-10 | 2,0.10-10 | 1,2.10-10 | 9,6.10-11 |
| M | 0,200 | 8,3.10-10 | 0,100 | 6,9.10-10 | 3,6.10-10 | 2,2.10-10 | 1,3.10-10 | 1,0.10-10 |
| S | 0,020 | 8,5.10-10 | 0,010 | 7,0.10-10 | 3,6.10-10 | 2,3.10-10 | 1,4.10-10 | 1,1.10-10 |
| Tc‑95m | 61,0 d | F | 1,000 | 2,4.10-9 | 0,800 | 1,8.10-9 | 9,3.10-10 | 5,7.10-10 | 3,6.10-10 | 2,9.10-10 |
| M | 0,200 | 4,9.10-9 | 0,100 | 4,0.10-9 | 2,3.10-9 | 1,5.10-9 | 1,1.10-9 | 8,8.10-10 |
| S | 0,020 | 6,0.10-9 | 0,010 | 5,0.10-9 | 2,7.10-9 | 1,8.10-9 | 1,5.10-9 | 1,2.10-9 |
| Tc‑96 | 4,28 d | F | 1,000 | 4,2.10-9 | 0,800 | 3,4.10-9 | 1,8.10-9 | 1,1.10-9 | 7,0.10-10 | 5,7.10-10 |
| M | 0,200 | 4,7.10-9 | 0,100 | 3,9.10-9 | 2,1.10-9 | 1,3.10-9 | 8,6.10-10 | 6,8.10-10 |
| S | 0,020 | 4,8.10-9 | 0,010 | 3,9.10-9 | 2,1.10-9 | 1,4.10-9 | 8,9.10-10 | 7,0.10-10 |
| Tc‑96m | 0,858 h | F | 1,000 | 5,3.10-11 | 0,800 | 4,1.10-11 | 2,1.10-11 | 1,3.10-11 | 7,7.10-12 | 6,2.10-12 |
| M | 0,200 | 5,6.10-11 | 0,100 | 4,4.10-11 | 2,3.10-11 | 1,4.10-11 | 9,3.10-12 | 7,4.10-12 |
| S | 0,020 | 5,7.10-11 | 0,010 | 4,4.10-11 | 2,3.10-11 | 1,5.10-11 | 9,5.10-12 | 7,5.10-12 |
| Tc‑97 | 2,60 106  r | F | 1,000 | 5,2.10-10 | 0,800 | 3,7.10-10 | 1,7.10-10 | 9,4.10-11 | 5,6.10-11 | 4,3.10-11 |
| M | 0,200 | 1,2.10-9 | 0,100 | 1,0.10-9 | 5,7.10-10 | 3,6.10-10 | 2,8.10-10 | 2,2.10-10 |
| S | 0,020 | 5,0.10-9 | 0,010 | 4,8.10-9 | 3,3.10-9 | 2,2.10-9 | 1,9.10-9 | 1,8.10-9 |
| Tc‑97m | 87,0 d | F | 1,000 | 3,4.10-9 | 0,800 | 2,3.10-9 | 9,8.10-10 | 5,6.10-10 | 3,0.10-10 | 2,7.10-10 |
| M | 0,200 | 1,3.10-8 | 0,100 | 1,0.10-8 | 6,1.10-9 | 4,4.10-9 | 4,1.10-9 | 3,2.10-9 |
| S | 0,020 | 1,6.10-8 | 0,010 | 1,3.10-8 | 7,8.10-9 | 5,7.10-9 | 5,2.10-9 | 4,1.10-9 |
| Tc‑98 | 4,20 106  r | F | 1,000 | 1,0.10-8 | 0,800 | 6,8.10-9 | 3,2.10-9 | 1,9.10-9 | 1,2.10-9 | 9,7.10-10 |
| M | 0,200 | 3,5.10-8 | 0,100 | 2,9.10-8 | 1,7.10-8 | 1,2.10-8 | 1,0.10-8 | 8,3.10-9 |
| S | 0,020 | 1,1.10-7 | 0,010 | 1,1.10-7 | 7,6.10-8 | 5,4.10-8 | 4,8.10-8 | 4,5.10-8 |
| Tc‑99 | 2,13 105  r | F | 1,000 | 4,0.10-9 | 0,800 | 2,5.10-9 | 1,0.10-9 | 5,9.10-10 | 3,6.10-10 | 2,9.10-10 |
| M | 0,200 | 1,7.10-8 | 0,100 | 1,3.10-8 | 8,0.10-9 | 5,7.10-9 | 5,0.10-9 | 4,0.10-9 |
| S | 0,020 | 4,1.10-8 | 0,010 | 3,7.10-8 | 2,4.10-8 | 1,7.10-8 | 1,5.10-8 | 1,3.10-8 |
| Tc‑99m | 6,02 h | F | 1,000 | 1,2.10-10 | 0,800 | 8,7.10-11 | 4,1.10-11 | 2,4.10-11 | 1,5.10-11 | 1,2.10-11 |
| M | 0,200 | 1,3.10-10 | 0,100 | 9,9.10-11 | 5,1.10-11 | 3,4.10-11 | 2,4.10-11 | 1,9.10-11 |
| S | 0,020 | 1,3.10-10 | 0,010 | 1,0.10-10 | 5,2.10-11 | 3,5.10-11 | 2,5.10-11 | 2,0.10-11 |
| Tc‑101 | 0,237 h | F | 1,000 | 8,5.10-11 | 0,800 | 5,6.10-11 | 2,5.10-11 | 1,6.10-11 | 9,7.10-12 | 8,2.10-12 |
| M | 0,200 | 1,1.10-10 | 0,100 | 7,1.10-11 | 3,2.10-11 | 2,1.10-11 | 1,4.10-11 | 1,2.10-11 |
| S | 0,020 | 1,1.10-10 | 0,010 | 7,3.10-11 | 3,3.10-11 | 2,2.10-11 | 1,4.10-11 | 1,2.10-11 |
| Tc‑104 | 0,303 h | F | 1,000 | 2,7.10-10 | 0,800 | 1,8.10-10 | 8,0.10-11 | 4,6.10-11 | 2,8.10-11 | 2,3.10-11 |
| M | 0,200 | 2,9.10-10 | 0,100 | 1,9.10-10 | 8,6.10-11 | 5,4.10-11 | 3,3.10-11 | 2,8.10-11 |
| S | 0,020 | 2,9.10-10 | 0,010 | 1,9.10-10 | 8,7.10-11 | 5,4.10-11 | 3,4.10-11 | 2,9.10-11 |
| **Ruténium** | | | | | | | | | | |
| Ru‑94 | 0,863 h | F | 0,100 | 2,5.10-10 | 0,050 | 1,9.10-10 | 9,0.10-11 | 5,4.10-11 | 3,1.10-11 | 2,5.10-11 |
| M | 3,8.10-10 | 2,8.10-10 | 1,3.10-10 | 8,4.10-11 | 5,2.10-11 | 4,2.10-11 |
| S | 0,020 | 4,0.10-10 | 0,010 | 2,9.10-10 | 1,4.10-10 | 8,7.10-11 | 5,4.10-11 | 4,4.10-11 |
| Ru‑97 | 2,90 d | F | 0,100 | 5,5.10-10 | 0,050 | 4,4.10-10 | 2,2.10-10 | 1,3.10-10 | 7,7.10-11 | 6,2.10-11 |
| M | 7,7.10-10 | 6,1.10-10 | 3,1.10-10 | 2,0.10-10 | 1,3.10-10 | 1,0.10-10 |
| S | 0,020 | 8,1.10-10 | 0,010 | 6,3.10-10 | 3,3.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
| Ru‑103 | 39,3 d | F | 0,100 | 4,2.10-9 | 0,050 | 3,0.10-9 | 1,5.10-9 | 9,3.10-10 | 5,6.10-10 | 4,8.10-10 |
| M | 1,1.10-8 | 8,4.10-9 | 5,0.10-9 | 3,5.10-9 | 3,0.10-9 | 2,4.10-9 |
| S | 0,020 | 1,3.10-8 | 0,010 | 1,0.10-8 | 6,0.10-9 | 4,2.10-9 | 3,7.10-9 | 3,0.10-9 |
| Ru‑105 | 4,44 h | F | 0,100 | 7,1.10-10 | 0,050 | 5,1.10-10 | 2,3.10-10 | 1,4.10-10 | 7,9.10-11 | 6,5.10-11 |
| M | 1,3.10-9 | 9,2.10-10 | 4,5.10-10 | 3,0.10-10 | 2,0.10-10 | 1,7.10-10 |
| S | 0,020 | 1,4.10-9 | 0,010 | 9,8.10-10 | 4,8.10-10 | 3,2.10-10 | 2,2.10-10 | 1,8.10-10 |
| Ru‑106 | 1,01 r | F | 0,100 | 7,2.10-8 | 0,050 | 5,4.10-8 | 2,6.10-8 | 1,6.10-8 | 9,2.10-9 | 7,9.10-9 |
|  |  | M | 0,100 | 1,4.10-7 | 0,050 | 1,1.10-7 | 6,4.10-8 | 4,1.10-8 | 3,1.10-8 | 2,8.10-8 |
| S | 0,020 | 2,6.10-7 | 0,010 | 2,3.10-7 | 1,4.10-7 | 9,1.10-8 | 7,1.10-8 | 6,6.10-8 |
| **Ródium** | | | | | | | | | | |
| Rh‑99 | 16,0 d | F | 0,100 | 2,6.10-9 | 0,050 | 2,0.10-9 | 9,9.10-10 | 6,2.10-10 | 3,8.10-10 | 3,2.10-10 |
| M | 4,5.10-9 | 3,5.10-9 | 2,0.10-9 | 1,3.10-9 | 9,6.10-10 | 7,7.10-10 |
| S | 4,9.10-9 | 3,8.10-9 | 2,2.10-9 | 1,3.10-9 | 1,1.10-9 | 8,7.10-10 |
| Rh‑99m | 4,70 h | F | 2,4.10-10 | 2,0.10-10 | 1,0.10-10 | 6,1.10-11 | 3,5.10-11 | 2,8.10-11 |
| M | 3,1.10-10 | 2,5.10-10 | 1,3.10-10 | 8,0.10-11 | 4,9.10-11 | 3,9.10-11 |
| S | 3,2.10-10 | 2,6.10-10 | 1,3.10-10 | 8,2.10-11 | 5,1.10-11 | 4,0.10-11 |
| Rh‑100 | 20,8 h | F | 2,1.10-9 | 1,8.10-9 | 9,1.10-10 | 5,6.10-10 | 3,3.10-10 | 2,6.10-10 |
| M | 2,7.10-9 | 2,2.10-9 | 1,1.10-9 | 7,1.10-10 | 4,3.10-10 | 3,4.10-10 |
| S | 2,8.10-9 | 2,2.10-9 | 1,2.10-9 | 7,3.10-10 | 4,4.10-10 | 3,5.10-10 |
| Rh‑101 | 3,20 r | F | 7,4.10-9 | 6,1.10-9 | 3,5.10-9 | 2,3.10-9 | 1,5.10-9 | 1,4.10-9 |
| M | 9,8.10-9 | 8,0.10-9 | 4,9.10-9 | 3,4.10-9 | 2,8.10-9 | 2,3.10-9 |
| S | 1,9.10-8 | 1,7.10-8 | 1,1.10-8 | 7,4.10-9 | 6,2.10-9 | 5,4.10-9 |
| Rh‑101m | 4,34 d | F | 8,4.10-10 | 6,6.10-10 | 3,3.10-10 | 2,0.10-10 | 1,2.10-10 | 9,7.10-11 |
| M | 1,3.10-9 | 9,8.10-10 | 5,2.10-10 | 3,5.10-10 | 2,5.10-10 | 1,9.10-10 |
| S | 1,3.10-9 | 1,0.10-9 | 5,5.10-10 | 3,7.10-10 | 2,7.10-10 | 2,1.10-10 |
| Rh‑102 | 2,90 r | F | 3,3.10-8 | 2,8.10-8 | 1,7.10-8 | 1,1.10-8 | 7,9.10-9 | 7,3.10-9 |
| M | 3,0.10-8 | 2,5.10-8 | 1,5.10-8 | 1,0.10-8 | 7,9.10-9 | 6,9.10-9 |
| S | 5,4.10-8 | 5,0.10-8 | 3,5.10-8 | 2,4.10-8 | 2,0.10-8 | 1,7.10-8 |
| Rh‑102m | 207 d | F | 1,2.10-8 | 8,7.10-9 | 4,4.10-9 | 2,7.10-9 | 1,7.10-9 | 1,5.10-9 |
| M | 2,0.10-8 | 1,6.10-8 | 9,0.10-9 | 6,0.10-9 | 4,7.10-9 | 4,0.10-9 |
| S | 3,0.10-8 | 2,5.10-8 | 1,5.10-8 | 1,0.10-8 | 8,2.10-9 | 7,1.10-9 |
| Rh‑103m | 0,935 h | F | 8,6.10-12 | 5,9.10-12 | 2,7.10-12 | 1,6.10-12 | 1,0.10-12 | 8,6.10-13 |
| M | 1,9.10-11 | 1,2.10-11 | 6,3.10-12 | 4,0.10-12 | 3,0.10-12 | 2,5.10-12 |
| S | 2,0.10-11 | 1,3.10-11 | 6,7.10-12 | 4,3.10-12 | 3,2.10-12 | 2,7.10-12 |
| Rh‑105 | 1,47 d | F | 1,0.10-9 | 6,9.10-10 | 3,0.10-10 | 1,8.10-10 | 9,6.10-11 | 8,2.10-11 |
| M | 2,2.10-9 | 1,6.10-9 | 7,4.10-10 | 5,2.10-10 | 4,1.10-10 | 3,2.10-10 |
| S | 2,4.10-9 | 1,7.10-9 | 8,0.10-10 | 5,6.10-10 | 4,5.10-10 | 3,5.10-10 |
| Rh‑106m | 2,20 h | F | 5,7.10-10 | 4,5.10-10 | 2,2.10-10 | 1,4.10-10 | 8,0.10-11 | 6,5.10-11 |
| M | 8,2.10-10 | 6,3.10-10 | 3,2.10-10 | 2,0.10-10 | 1,3.10-10 | 1,1.10-10 |
| S | 8,5.10-10 | 6,5.10-10 | 3,3.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
| Rh‑107 | 0,362 h | F | 8,9.10-11 | 5,9.10-11 | 2,6.10-11 | 1,7.10-11 | 1,0.10-11 | 9,0.10-12 |
| M | 1,4.10-10 | 9,3.10-11 | 4,2.10-11 | 2,8.10-11 | 1,9.10-11 | 1,6.10-11 |
| S | 1,5.10-10 | 9,7.10-11 | 4,4.10-11 | 2,9.10-11 | 1,9.10-11 | 1,7.10-11 |
| **Paládium** | | | | | | | | | | |
| Pd‑100 | 3,63 d | F | 0,050 | 3,9.10-9 | 0,005 | 3,0.10-9 | 1,5.10-9 | 9,7.10-10 | 5,8.10-10 | 4,7.10-10 |
| M | 5,2.10-9 | 4,0.10-9 | 2,2.10-9 | 1,4.10-9 | 9,9.10-10 | 8,0.10-10 |
| S | 5,3.10-9 | 4,1.10-9 | 2,2.10-9 | 1,5.10-9 | 1,0.10-9 | 8,5.10-10 |
| Pd‑101 | 8,27 h | F | 3,6.10-10 | 2,9.10-10 | 1,4.10-10 | 8,6.10-11 | 4,9.10-11 | 3,9.10-11 |
| M | 4,8.10-10 | 3,8.10-10 | 1,9.10-10 | 1,2.10-10 | 7,5.10-11 | 5,9.10-11 |
| S | 5,0.10-10 | 3,9.10-10 | 2,0.10-10 | 1,2.10-10 | 7,8.10-11 | 6,2.10-11 |
| Pd‑103 | 17,0 d | F | 9,7.10-10 | 6,5.10-10 | 3,0.10-10 | 1,9.10-10 | 1,1.10-10 | 8,9.10-11 |
| M | 2,3.10-9 | 1,6.10-9 | 9,0.10-10 | 5,9.10-10 | 4,5.10-10 | 3,8.10-10 |
| S | 2,5.10-9 | 1,8.10-9 | 1,0.10-9 | 6,8.10-10 | 5,3.10-10 | 4,5.10-10 |
| Pd‑107 | 6,50 106  r | F | 2,6.10-10 | 1,8.10-10 | 8,2.10-11 | 5,2.10-11 | 3,1.10-11 | 2,5.10-11 |
| M | 6,5.10-10 | 5,0.10-10 | 2,6.10-10 | 1,5.10-10 | 1,0.10-10 | 8,5.10-11 |
| S | 2,2.10-9 | 2,0.10-9 | 1,3.10-9 | 7,8.10-10 | 6,2.10-10 | 5,9.10-10 |
| Pd‑109 | 13,4 h | F | 1,5.10-9 | 9,9.10-10 | 4,2.10-10 | 2,6.10-10 | 1,4.10-10 | 1,2.10-10 |
| M | 2,6.10-9 | 1,8.10-9 | 8,8.10-10 | 5,9.10-10 | 4,3.10-10 | 3,4.10-10 |
| S | 2,7.10-9 | 1,9.10-9 | 9,3.10-10 | 6,3.10-10 | 4,6.10-10 | 3,7.10-10 |
| **Striebro** |  |  |  |  |  |  |  |  |  |  |
| Ag‑102 | 0,215 h | F | 0,100 | 1,2.10-10 | 0,050 | 8,6.10-11 | 4,2.10-11 | 2,6.10-11 | 1,5.10-11 | 1,3.10-11 |
| M | 1,6.10-10 | 1,1.10-10 | 5,5.10-11 | 3,4.10-11 | 2,1.10-11 | 1,7.10-11 |
|  |  | S | 0,020 | 1,6.10-10 | 0,010 | 1,2.10-10 | 5,6.10-11 | 3,5.10-11 | 2,2.10-11 | 1,8.10-11 |
| Ag‑103 | 1,09 h | F | 0,100 | 1,4.10-10 | 0,050 | 1,0.10-10 | 4,9.10-11 | 3,0.10-11 | 1,8.10-11 | 1,4.10-11 |
| M | 2,2.10-10 | 1,6.10-10 | 7,6.10-11 | 4,8.10-11 | 3,2.10-11 | 2,6.10-11 |
| S | 0,020 | 2,3.10-10 | 0,010 | 1,6.10-10 | 7,9.10-11 | 5,1.10-11 | 3,3.10-11 | 2,7.10-11 |
| Ag‑104 | 1,15 h | F | 0,100 | 2,3.10-10 | 0,050 | 1,9.10-10 | 9,8.10-11 | 5,9.10-11 | 3,5.10-11 | 2,8.10-11 |
| M | 2,9.10-10 | 2,3.10-10 | 1,2.10-10 | 7,4.10-11 | 4,5.10-11 | 3,6.10-11 |
| S | 0,020 | 2,9.10-10 | 0,010 | 2,4.10-10 | 1,2.10-10 | 7,6.10-11 | 4,6.10-11 | 3,7.10-11 |
| Ag‑104m | 0,558 h | F | 0,100 | 1,6.10-10 | 0,050 | 1,1.10-10 | 5,5.10-11 | 3,4.10-11 | 2,0.10-11 | 1,6.10-11 |
| M | 2,3.10-10 | 1,6.10-10 | 7,7.10-11 | 4,8.10-11 | 3,0.10-11 | 2,5.10-11 |
| S | 0,020 | 2,4.10-10 | 0,010 | 1,7.10-10 | 8,0.10-11 | 5,0.10-11 | 3,1.10-11 | 2,6.10-11 |
| Ag‑105 | 41,0 d | F | 0,100 | 3,9.10-9 | 0,050 | 3,4.10-9 | 1,7.10-9 | 1,0.10-9 | 6,4.10-10 | 5,4.10-10 |
| M | 4,5.10-9 | 3,5.10-9 | 2,0.10-9 | 1,3.10-9 | 9,0.10-10 | 7,3.10-10 |
| S | 0,020 | 4,5.10-9 | 0,010 | 3,6.10-9 | 2,1.10-9 | 1,3.10-9 | 1,0.10-9 | 8,1.10-10 |
| Ag‑106 | 0,399 h | F | 0,100 | 9,4.10-11 | 0,050 | 6,4.10-11 | 2,9.10-11 | 1,8.10-11 | 1,1.10-11 | 9,1.10-12 |
| M | 1,4.10-10 | 9,5.10-11 | 4,4.10-11 | 2,8.10-11 | 1,8.10-11 | 1,5.10-11 |
| S | 0,020 | 1,5.10-10 | 0,010 | 9,9.10-11 | 4,5.10-11 | 2,9.10-11 | 1,9.10-11 | 1,6.10-11 |
| Ag‑106m | 8,41 d | F | 0,100 | 7,7.10-9 | 0,050 | 6,1.10-9 | 3,2.10-9 | 2,1.10-9 | 1,3.10-9 | 1,1.10-9 |
| M | 7,2.10-9 | 5,8.10-9 | 3,2.10-9 | 2,1.10-9 | 1,4.10-9 | 1,1.10-9 |
| S | 0,020 | 7,0.10-9 | 0,010 | 5,7.10-9 | 3,2.10-9 | 2,1.10-9 | 1,4.10-9 | 1,1.10-9 |
| Ag‑108m | 1,27 102  r | F | 0,100 | 3,5.10-8 | 0,050 | 2,8.10-8 | 1,6.10-8 | 1,0.10-8 | 6,9.10-9 | 6,1.10-9 |
| M | 3,3.10-8 | 2,7.10-8 | 1,7.10-8 | 1,1.10-8 | 8,6.10-9 | 7,4.10-9 |
| S | 0,020 | 8,9.10-8 | 0,010 | 8,7.10-8 | 6,2.10-8 | 4,4.10-8 | 3,9.10-8 | 3,7.10-8 |
| Ag‑110m | 250 d | F | 0,100 | 3,5.10-8 | 0,050 | 2,8.10-8 | 1,5.10-8 | 9,7.10-9 | 6,3.10-9 | 5,5.10-9 |
| M | 3,5.10-8 | 2,8.10-8 | 1,7.10-8 | 1,2.10-8 | 9,2.10-9 | 7,6.10-9 |
| S | 0,020 | 4,6.10-8 | 0,010 | 4,1.10-8 | 2,6.10-8 | 1,8.10-8 | 1,5.10-8 | 1,2.10-8 |
| Ag‑111 | 7,45 d | F | 0,100 | 4,8.10-9 | 0,050 | 3,2.10-9 | 1,4.10-9 | 8,8.10-10 | 4,8.10-10 | 4,0.10-10 |
| M | 9,2.10-9 | 6,6.10-9 | 3,5.10-9 | 2,4.10-9 | 1,9.10-9 | 1,5.10-9 |
| S | 0,020 | 9,9.10-9 | 0,010 | 7,1.10-9 | 3,8.10-9 | 2,7.10-9 | 2,1.10-9 | 1,7.10-9 |
| Ag‑112 | 3,12 h | F | 0,100 | 9,8.10-10 | 0,050 | 6,4.10-10 | 2,8.10-10 | 1,7.10-10 | 9,1.10-11 | 7,6.10-11 |
| M | 1,7.10-9 | 1,1.10-9 | 5,1.10-10 | 3,2.10-10 | 2,0.10-10 | 1,6.10-10 |
| S | 0,020 | 1,8.10-9 | 0,010 | 1,2.10-9 | 5,4.10-10 | 3,4.10-10 | 2,1.10-10 | 1,7.10-10 |
| Ag‑115 | 0,333 h | F | 0,100 | 1,6.10-10 | 0,050 | 1,0.10-10 | 4,6.10-11 | 2,9.10-11 | 1,7.10-11 | 1,5.10-11 |
| M | 2,5.10-10 | 1,7.10-10 | 7,6.10-11 | 4,9.10-11 | 3,2.10-11 | 2,7.10-11 |
| S | 0,020 | 2,7.10-10 | 0,010 | 1,7.10-10 | 8,0.10-11 | 5,2.10-11 | 3,4.10-11 | 2,9.10-11 |
| **Kadmium** | | | | | | | | | | |
| Cd‑104 | 0,961 h | F | 0,100 | 2,0.10-10 | 0,050 | 1,7.10-10 | 8,7.10-11 | 5,2.10-11 | 3,1.10-11 | 2,4.10-11 |
| M | 2,6.10-10 | 2,1.10-10 | 1,1.10-10 | 6,9.10-11 | 4,2.10-11 | 3,4.10-11 |
| S | 2,7.10-10 | 2,2.10-10 | 1,1.10-10 | 7,0.10-11 | 4,4.10-11 | 3,5.10-11 |
| Cd‑107 | 6,49 h | F | 2,3.10-10 | 1,7.10-10 | 7,4.10-11 | 4,6.10-11 | 2,5.10-11 | 2,1.10-11 |
| M | 5,2.10-10 | 3,7.10-10 | 2,0.10-10 | 1,3.10-10 | 8,8.10-11 | 8,3.10-11 |
| S | 5,5.10-10 | 3,9.10-10 | 2,1.10-10 | 1,4.10-10 | 9,7.10-11 | 7,7.10-11 |
| Cd‑109 | 1,27 r | F | 4,5.10-8 | 3,7.10-8 | 2,1.10-8 | 1,4.10-8 | 9,3.10-9 | 8,1.10-9 |
| M | 3,0.10-8 | 2,3.10-8 | 1,4.10-8 | 9,5.10-9 | 7,8.10-9 | 6,6.10-9 |
| S | 2,7.10-8 | 2,1.10-8 | 1,3.10-8 | 8,9.10-9 | 7,6.10-9 | 6,2.10-9 |
| Cd‑113 | 9,30 1015 r | F | 2,6.10-7 | 2,4.10-7 | 1,7.10-7 | 1,4.10-7 | 1,2.10-7 | 1,2.10-7 |
| M | 1,2.10-7 | 1,0.10-7 | 7,6.10-8 | 6,1.10-8 | 5,7.10-8 | 5,5.10-8 |
| S | 7,8.10-8 | 5,8.10-8 | 4,1.10-8 | 3,0.10-8 | 2,7.10-8 | 2,6.10-8 |
| Cd‑113m | 13,6 r | F | 3,0.10-7 | 2,7.10-7 | 1,8.10-7 | 1,3.10-7 | 1,1.10-7 | 1,1.10-7 |
| M | 1,4.10-7 | 1,2.10-7 | 8,1.10-8 | 6,0.10-8 | 5,3.10-8 | 5,2.10-8 |
| S | 1,1.10-7 | 8,4.10-8 | 5,5.10-8 | 3,9.10-8 | 3,3.10-8 | 3,1.10-8 |
| Cd‑115 | 2,23 d | F | 4,0.10-9 | 2,6.10-9 | 1,2.10-9 | 7,5.10-10 | 4,3.10-10 | 3,5.10-10 |
| M | 6,7.10-9 | 4,8.10-9 | 2,4.10-9 | 1,7.10-9 | 1,2.10-9 | 9,8.10-10 |
| S | 7,2.10-9 | 5,1.10-9 | 2,6.10-9 | 1,8.10-9 | 1,3.10-9 | 1,1.10-9 |
| Cd‑115m | 44,6 d | F | 4,6.10-8 | 3,2.10-8 | 1,5.10-8 | 1,0.10-8 | 6,4.10-9 | 5,3.10-9 |
| M | 4,0.10-8 | 2,5.10-8 | 1,4.10-8 | 9,4.10-9 | 7,3.10-9 | 6,2.10-9 |
| S | 0,100 | 3,9.10-8 | 0,050 | 3,0.10-8 | 1,7.10-8 | 1,1.10-8 | 8,9.10-9 | 7,7.10-9 |
| Cd‑117 | 2,49 h | F | 7,4.10-10 | 5,2.10-10 | 2,4.10-10 | 1,5.10-10 | 8,1.10-11 | 6,7.10-11 |
| M | 1,3.10-9 | 9,3.10-10 | 4,5.10-10 | 2,9.10-10 | 2,0.10-10 | 1,6.10-10 |
| S | 1,4.10-9 | 9,8.10-10 | 4,8.10-10 | 3,1.10-10 | 2,1.10-10 | 1,7.10-10 |
| Cd‑117m | 3,36 h | F | 8,9.10-10 | 6,7.10-10 | 3,3.10-10 | 2,0.10-10 | 1,1.10-10 | 9,4.10-11 |
| M | 1,5.10-9 | 1,1.10-9 | 5,5.10-10 | 3,6.10-10 | 2,4.10-10 | 2,0.10-10 |
| S | 1,5.10-9 | 1,1.10-9 | 5,7.10-10 | 3,8.10-10 | 2,6.10-10 | 2,1.10-10 |
| **Indium** | | | | | | | | | | |
| In‑109 | 4,20 h | F | 0,040 | 2,6.10-10 | 0,020 | 2,1.10-10 | 1,0.10-10 | 6,3.10-11 | 3,6.10-11 | 2,9.10-11 |
| M | 3,3.10-10 | 2,6.10-10 | 1,3.10-10 | 8,4.10-11 | 5,3.10-11 | 4,2.10-11 |
| In‑110 | 4,90 h | F | 8,2.10-10 | 7,1.10-10 | 3,7.10-10 | 2,3.10-10 | 1,3.10-10 | 1,1.10-10 |
| M | 9,9.10-10 | 8,3.10-10 | 4,4.10-10 | 2,7.10-10 | 1,6.10-10 | 1,3.10-10 |
| In‑110 | 1,15 h | F | 3,0.10-10 | 2,1.10-10 | 9,9.10-11 | 6,0.10-11 | 3,5.10-11 | 2,8.10-11 |
| M | 4,5.10-10 | 3,1.10-10 | 1,5.10-10 | 9,2.10-11 | 5,8.10-11 | 4,7.10-11 |
| In‑111 | 2,83 d | F | 1,2.10-9 | 8,6.10-10 | 4,2.10-10 | 2,6.10-10 | 1,5.10-10 | 1,3.10-10 |
| M | 1,5.10-9 | 1,2.10-9 | 6,2.10-10 | 4,1.10-10 | 2,9.10-10 | 2,3.10-10 |
| In‑112 | 0,240 h | F | 4,4.10-11 | 3,0.10-11 | 1,3.10-11 | 8,7.10-12 | 5,4.10-12 | 4,7.10-12 |
| M | 6,5.10-11 | 4,4.10-11 | 2,0.10-11 | 1,3.10-11 | 8,7.10-12 | 7,4.10-12 |
| In‑113m | 1,66 h | F | 1,0.10-10 | 7,0.10-11 | 3,2.10-11 | 2,0.10-11 | 1,2.10-11 | 9,7.10-12 |
| M | 1,6.10-10 | 1,1.10-10 | 5,5.10-11 | 3,6.10-11 | 2,4.10-11 | 2,0.10-11 |
| In‑114m | 49,5 d | F | 1,2.10-7 | 7,7.10-8 | 3,4.10-8 | 1,9.10-8 | 1,1.10-8 | 9,3.10-9 |
| M | 4,8.10-8 | 3,3.10-8 | 1,6.10-8 | 1,0.10-8 | 7,8.10-9 | 6,1.10-9 |
| In‑115 | 5,10 1015 r | F | 8,3.10-7 | 7,8.10-7 | 5,5.10-7 | 5,0.10-7 | 4,2.10-7 | 3,9.10-7 |
| M | 3,0.10-7 | 2,8.10-7 | 2,1.10-7 | 1,9.10-7 | 1,7.10-7 | 1,6.10-7 |
| In‑115m | 4,49 h | F | 2,8.10-10 | 1,9.10-10 | 8,4.10-11 | 5,1.10-11 | 2,8.10-11 | 2,4.10-11 |
| M | 4,7.10-10 | 3,3.10-10 | 1,6.10-10 | 1,0.10-10 | 7,2.10-11 | 5,9.10-11 |
| In‑116m | 0,902 h | F | 2,5.10-10 | 1,9.10-10 | 9,2.10-11 | 5,7.10-11 | 3,4.10-11 | 2,8.10-11 |
| M | 3,6.10-10 | 2,7.10-10 | 1,3.10-10 | 8,5.10-11 | 5,6.10-11 | 4,5.10-11 |
| In‑117 | 0,730 h | F | 1,4.10-10 | 9,7.10-11 | 4,5.10-11 | 2,8.10-11 | 1,7.10-11 | 1,5.10-11 |
| M | 2,3.10-10 | 1,6.10-10 | 7,5.10-11 | 5,0.10-11 | 3,5.10-11 | 2,9.10-11 |
| In‑117m | 1,94 h | F | 3,4.10-10 | 2,3.10-10 | 1,0.10-10 | 6,2.10-11 | 3,5.10-11 | 2,9.10-11 |
| M | 6,0.10-10 | 4,0.10-10 | 1,9.10-10 | 1,3.10-10 | 8,7.10-11 | 7,2.10-11 |
| In‑119m | 0,300 h | F | 1,2.10-10 | 7,3.10-11 | 3,1.10-11 | 2,0.10-11 | 1,2.10-11 | 1,0.10-11 |
| M | 1,8.10-10 | 1,1.10-10 | 4,9.10-11 | 3,2.10-11 | 2,0.10-11 | 1,7.10-11 |
| **Cín** | | | | | | | | | | |
| Sn‑110 | 4,00 h | F | 0,040 | 1,0.10-9 | 0,020 | 7,6.10-10 | 3,6.10-10 | 2,2.10-10 | 1,2.10-10 | 9,9.10-11 |
| M | 1,5.10-9 | 1,1.10-9 | 5,1.10-10 | 3,2.10-10 | 1,9.10-10 | 1,6.10-10 |
| Sn‑111 | 0,588 h | F | 7,7.10-11 | 5,4.10-11 | 2,6.10-11 | 1,6.10-11 | 9,4.10-12 | 7,8.10-12 |
| M | 1,1.10-10 | 8,0.10-11 | 3,8.10-11 | 2,5.10-11 | 1,6.10-11 | 1,3.10-11 |
| Sn‑113 | 115 d | F | 5,1.10-9 | 3,7.10-9 | 1,8.10-9 | 1,1.10-9 | 6,4.10-10 | 5,4.10-10 |
| M | 1,3.10-8 | 1,0.10-8 | 5,8.10-9 | 4,0.10-9 | 3,2.10-9 | 2,7.10-9 |
| Sn‑117m | 13,6 d | F | 3,3.10-9 | 2,2.10-9 | 1,0.10-9 | 6,1.10-10 | 3,4.10-10 | 2,8.10-10 |
| M | 1,0.10-8 | 7,7.10-9 | 4,6.10-9 | 3,4.10-9 | 3,1.10-9 | 2,4.10-9 |
| Sn‑119m | 293 d | F | 3,0.10-9 | 2,2.10-9 | 1,0.10-9 | 6,0.10-10 | 3,4.10-10 | 2,8.10-10 |
| M | 1,0.10-8 | 7,9.10-9 | 4,7.10-9 | 3,1.10-9 | 2,6.10-9 | 2,2.10-9 |
| Sn‑121 | 1,13 d | F | 7,7.10-10 | 5,0.10-10 | 2,2.10-10 | 1,3.10-10 | 7,0.10-11 | 6,0.10-11 |
| M | 1,5.10-9 | 1,1.10-9 | 5,1.10-10 | 3,6.10-10 | 2,9.10-10 | 2,3.10-10 |
| Sn‑121m | 55,0 r | F | 6,9.10-9 | 5,4.10-9 | 2,8.10-9 | 1,6.10-9 | 9,4.10-10 | 8,0.10-10 |
| M | 1,9.10-8 | 1,5.10-8 | 9,2.10-9 | 6,4.10-9 | 5,5.10-9 | 4,5.10-9 |
| Sn‑123 | 129 d | F | 1,4.10-8 | 9,9.10-9 | 4,5.10-9 | 2,6.10-9 | 1,4.10-9 | 1,2.10-9 |
| M | 4,0.10-8 | 3,1.10-8 | 1,8.10-8 | 1,2.10-8 | 9,5.10-9 | 8,1.10-9 |
| Sn‑123m | 0,668 h | F | 1,4.10-10 | 8,9.10-11 | 3,9.10-11 | 2,5.10-11 | 1,5.10-11 | 1,3.10-11 |
| M | 2,3.10-10 | 1,5.10-10 | 7,0.10-11 | 4,6.10-11 | 3,2.10-11 | 2,7.10-11 |
| Sn‑125 | 9,64 d | F | 1,2.10-8 | 8,0.10-9 | 3,5.10-9 | 2,0.10-9 | 1,1.10-9 | 8,9.10-10 |
| M | 2,1.10-8 | 1,5.10-8 | 7,6.10-9 | 5,0.10-9 | 3,6.10-9 | 3,1.10-9 |
| Sn‑126 | 1,00.105 r | F | 0,040 | 7,3.10-8 | 0,020 | 5,9.10-8 | 3,2.10-8 | 2,0.10-8 | 1,3.10-8 | 1,1.10-8 |
| M | 1,2.10-7 | 1,0.10-7 | 6,2.10-8 | 4,1.10-8 | 3,3.10-8 | 2,8.10-8 |
| Sn‑127 | 2,10 h | F | 6,6.10-10 | 4,7.10-10 | 2,3.10-10 | 1,4.10-10 | 7,9.10-11 | 6,5.10-11 |
| M | 1,0.10-9 | 7,4.10-10 | 3,7.10-10 | 2,4.10-10 | 1,6.10-10 | 1,3.10-10 |
| Sn‑128 | 0,985 h | F | 5,1.10-10 | 3,6.10-10 | 1,7.10-10 | 1,0.10-10 | 6,1.10-11 | 5,0.10-11 |
| M | 8,0.10-10 | 5,5.10-10 | 2,7.10-10 | 1,7.10-10 | 1,1.10-10 | 9,2.10-11 |
| **Antimón** | | | | | | | | | | |
| Sb‑115 | 0,530 h | F | 0,200 | 8,1.10-11 | 0,100 | 5,9.10-11 | 2,8.10-11 | 1,7.10-11 | 1,0.10-11 | 8,5.10-12 |
| M | 0,020 | 1,2.10-10 | 0,010 | 8,3.10-11 | 4,0.10-11 | 2,5.10-11 | 1,6.10-11 | 1,3.10-11 |
| S | 0,020 | 1,2.10-10 | 0,010 | 8,6.10-11 | 4,1.10-11 | 2,6.10-11 | 1,7.10-11 | 1,4.10-11 |
| Sb‑116 | 0,263 h | F | 0,200 | 8,4.10-11 | 0,100 | 6,2.10-11 | 3,0.10-11 | 1,9.10-11 | 1,1.10-11 | 9,1.10-12 |
| M | 0,020 | 1,1.10-10 | 0,010 | 8,2.10-11 | 4,0.10-11 | 2,5.10-11 | 1,5.10-11 | 1,3.10-11 |
| S | 0,020 | 1,2.10-10 | 0,010 | 8,5.10-11 | 4,1.10-11 | 2,6.10-11 | 1,6.10-11 | 1,3.10-11 |
| Sb‑116m | 1,00 h | F | 0,200 | 2,6.10-10 | 0,100 | 2,1.10-10 | 1,1.10-10 | 6,6.10-11 | 4,0.10-11 | 3,2.10-11 |
| M | 0,020 | 3,6.10-10 | 0,010 | 2,8.10-10 | 1,5.10-10 | 9,1.10-11 | 5,9.10-11 | 4,7.10-11 |
| S | 0,020 | 3,7.10-10 | 0,010 | 2,9.10-10 | 1,5.10-10 | 9,4.10-11 | 6,1.10-11 | 4,9.10-11 |
| Sb‑117 | 2,80 h | F | 0,200 | 7,7.10-11 | 0,100 | 6,0.10-11 | 2,9.10-11 | 1,8.10-11 | 1,0.10-11 | 8,5.10-12 |
| M | 0,020 | 1,2.10-10 | 0,010 | 9,1.10-11 | 4,6.10-11 | 3,0.10-11 | 2,0.10-11 | 1,6.10-11 |
| S | 0,020 | 1,3.10-10 | 0,010 | 9,5.10-11 | 4,8.10-11 | 3,1.10-11 | 2,2.10-11 | 1,7.10-11 |
| Sb‑118m | 5,00 h | F | 0,200 | 7,3.10-10 | 0,100 | 6,2.10-10 | 3,3.10-10 | 2,0.10-10 | 1,2.10-10 | 9,3.10-11 |
| M | 0,020 | 9,3.10-10 | 0,010 | 7,6.10-10 | 4,0.10-10 | 2,5.10-10 | 1,5.10-10 | 1,2.10-10 |
| S | 0,020 | 9,5.10-10 | 0,010 | 7,8.10-10 | 4,1.10-10 | 2,5.10-10 | 1,5.10-10 | 1,2.10-10 |
| Sb‑119 | 1,59 d | F | 0,200 | 2,7.10-10 | 0,100 | 2,0.10-10 | 9,4.10-11 | 5,5.10-11 | 2,9.10-11 | 2,3.10-11 |
| M | 0,020 | 4,0.10-10 | 0,010 | 2,8.10-10 | 1,3.10-10 | 7,9.10-11 | 4,4.10-11 | 3,5.10-11 |
| S | 0,020 | 4,1.10-10 | 0,010 | 2,9.10-10 | 1,4.10-10 | 8,2.10-11 | 4,5.10-11 | 3,6.10-11 |
| Sb‑120 | 5,76 d | F | 0,200 | 4,1.10-9 | 0,100 | 3,3.10-9 | 1,8.10-9 | 1,1.10-9 | 6,7.10-10 | 5,5.10-10 |
| M | 0,020 | 6,3.10-9 | 0,010 | 5,0.10-9 | 2,8.10-9 | 1,8.10-9 | 1,3.10-9 | 1,0.10-9 |
| S | 0,020 | 6,6.10-9 | 0,010 | 5,3.10-9 | 2,9.10-9 | 1,9.10-9 | 1,4.10-9 | 1,1.10-9 |
| Sb‑120 | 0,265 h | F | 0,200 | 4,6.10-11 | 0,100 | 3,1.10-11 | 1,4.10-11 | 8,9.10-12 | 5,4.10-12 | 4,6.10-12 |
| M | 0,020 | 6,6.10-11 | 0,010 | 4,4.10-11 | 2,0.10-11 | 1,3.10-11 | 8,3.10-12 | 7,0.10-12 |
| S | 0,020 | 6,8.10-11 | 0,010 | 4,6.10-11 | 2,1.10-11 | 1,4.10-11 | 8,7.10-12 | 7,3.10-12 |
| Sb‑122 | 2,70 d | F | 0,200 | 4,2.10-9 | 0,100 | 2,8.10-9 | 1,4.10-9 | 8,4.10-10 | 4,4.10-10 | 3,6.10-10 |
| M | 0,020 | 8,3.10-9 | 0,010 | 5,7.10-9 | 2,8.10-9 | 1,8.10-9 | 1,3.10-9 | 1,0.10-9 |
| S | 0,020 | 8,8.10-9 | 0,010 | 6,1.10-9 | 3,0.10-9 | 2,0.10-9 | 1,4.10-9 | 1,1.10-9 |
| Sb‑124 | 60,2 d | F | 0,200 | 1,2.10-8 | 0,100 | 8,8.10-9 | 4,3.10-9 | 2,6.10-9 | 1,6.10-9 | 1,3.10-9 |
| M | 0,020 | 3,1.10-8 | 0,010 | 2,4.10-8 | 1,4.10-8 | 9,6.10-9 | 7,7.10-9 | 6,4.10-9 |
| S | 0,020 | 3,9.10-8 | 0,010 | 3,1.10-8 | 1,8.10-8 | 1,3.10-8 | 1,0.10-8 | 8,6.10-9 |
| Sb‑124m | 0,337 h | F | 0,200 | 2,7.10-11 | 0,100 | 1,9.10-11 | 9,0.10-12 | 5,6.10-12 | 3,4.10-12 | 2,8.10-12 |
| M | 0,020 | 4,3.10-11 | 0,010 | 3,1.10-11 | 1,5.10-11 | 9,6.10-12 | 6,5.10-12 | 5,4.10-12 |
| S | 0,020 | 4,6.10-11 | 0,010 | 3,3.10-11 | 1,6.10-11 | 1,0.10-11 | 7,2.10-12 | 5,9.10-12 |
| Sb‑125 | 2,77 r | F | 0,200 | 8,7.10-9 | 0,100 | 6,8.10-9 | 3,7.10-9 | 2,3.10-9 | 1,5.10-9 | 1,4.10-9 |
| M | 0,020 | 2,0.10-8 | 0,010 | 1,6.10-8 | 1,0.10-8 | 6,8.10-9 | 5,8.10-9 | 4,8.10-9 |
| S | 0,020 | 4,2.10-8 | 0,010 | 3,8.10-8 | 2,4.10-8 | 1,6.10-8 | 1,4.10-8 | 1,2.10-8 |
| Sb‑126 | 12,4 d | F | 0,200 | 8,8.10-9 | 0,100 | 6,6.10-9 | 3,3.10-9 | 2,1.10-9 | 1,2.10-9 | 1,0.10-9 |
| M | 0,020 | 1,7.10-8 | 0,010 | 1,3.10-8 | 7,4.10-9 | 5,1.10-9 | 3,5.10-9 | 2,8.10-9 |
| S | 0,020 | 1,9.10-8 | 0,010 | 1,5.10-8 | 8,2.10-9 | 5,0.10-9 | 4,0.10-9 | 3,2.10-9 |
| Sb‑126m | 0,317 h | F | 0,200 | 1,2.10-10 | 0,100 | 8,2.10-11 | 3,8.10-11 | 2,4.10-11 | 1,5.10-11 | 1,2.10-11 |
| M | 0,020 | 1,7.10-10 | 0,010 | 1,2.10-10 | 5,5.10-11 | 3,5.10-11 | 2,3.10-11 | 1,9.10-11 |
| S | 0,020 | 1,8.10-10 | 0,010 | 1,2.10-10 | 5,7.10-11 | 3,7.10-11 | 2,4.10-11 | 2,0.10-11 |
| Sb‑127 | 3,85 d | F | 0,200 | 5,1.10-9 | 0,100 | 3,5.10-9 | 1,6.10-9 | 9,7.10-10 | 5,2.10-10 | 4,3.10-10 |
| M | 0,020 | 1,0.10-8 | 0,010 | 7,3.10-9 | 3,9.10-9 | 2,7.10-9 | 2,1.10-9 | 1,7.10-9 |
| S | 0,020 | 1,1.10-8 | 0,010 | 7,9.10-9 | 4,2.10-9 | 3,0.10-9 | 2,3.10-9 | 1,9.10-9 |
| Sb‑128 | 9,01 h | F | 0,200 | 2,1.10-9 | 0,100 | 1,7.10-9 | 8,3.10-10 | 5,1.10-10 | 2,9.10-10 | 2,3.10-10 |
| M | 0,020 | 3,3.10-9 | 0,010 | 2,5.10-9 | 1,2.10-9 | 7,9.10-10 | 5,0.10-10 | 4,0.10-10 |
| S | 0,020 | 3,4.10-9 | 0,010 | 2,6.10-9 | 1,3.10-9 | 8,3.10-10 | 5,2.10-10 | 4,2.10-10 |
| Sb‑128 | 0,173 h | F | 0,200 | 9,8.10-11 | 0,100 | 6,9.10-11 | 3,2.10-11 | 2,0.10-11 | 1,2.10-11 | 1,0.10-11 |
| M | 0,020 | 1,3.10-10 | 0,010 | 9,2.10-11 | 4,3.10-11 | 2,7.10-11 | 1,7.10-11 | 1,4.10-11 |
| S | 0,020 | 1,4.10-10 | 0,010 | 9,4.10-11 | 4,4.10-11 | 2,8.10-11 | 1,8.10-11 | 1,5.10-11 |
| Sb‑129 | 4,32 h | F | 0,200 | 1,1.10-9 | 0,100 | 8,2.10-10 | 3,8.10-10 | 2,3.10-10 | 1,3.10-10 | 1,0.10-10 |
| M | 0,020 | 2,0.10-9 | 0,010 | 1,4.10-9 | 6,8.10-10 | 4,4.10-10 | 2,9.10-10 | 2,3.10-10 |
| S | 0,020 | 2,1.10-9 | 0,010 | 1,5.10-9 | 7,2.10-10 | 4,6.10-10 | 3,0.10-10 | 2,5.10-10 |
| Sb‑130 | 0,667 h | F | 0,200 | 3,0.10-10 | 0,100 | 2,2.10-10 | 1,1.10-10 | 6,6.10-11 | 4,0.10-11 | 3,3.10-11 |
| M | 0,020 | 4,5.10-10 | 0,010 | 3,2.10-10 | 1,6.10-10 | 9,8.10-11 | 6,3.10-11 | 5,1.10-11 |
| S | 0,020 | 4,6.10-10 | 0,010 | 3,3.10-10 | 1,6.10-10 | 1,0.10-10 | 6,5.10-11 | 5,3.10-11 |
| Sb‑131 | 0,383 h | F | 0,200 | 3,5.10-10 | 0,100 | 2,8.10-10 | 1,4.10-10 | 7,7.10-11 | 4,6.10-11 | 3,5.10-11 |
| M | 0,020 | 3,9.10-10 | 0,010 | 2,6.10-10 | 1,3.10-10 | 8,0.10-11 | 5,3.10-11 | 4,4.10-11 |
| S | 0,020 | 3,8.10-10 | 0,010 | 2,6.10-10 | 1,2.10-10 | 7,9.10-11 | 5,3.10-11 | 4,4.10-11 |
| **Telúr** | | | | | | | | | | |
| Te‑116 | 2,49 h | F | 0,600 | 5,3.10-10 | 0,300 | 4,2.10-10 | 2,1.10-10 | 1,3.10-10 | 7,2.10-11 | 5,8.10-11 |
| M | 0,200 | 8,6.10-10 | 0,100 | 6,4.10-10 | 3,2.10-10 | 2,0.10-10 | 1,3.10-10 | 1,0.10-10 |
| S | 0,020 | 9,1.10-10 | 0,010 | 6,7.10-10 | 3,3.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
| Te‑121 | 17,0 d | F | 0,600 | 1,7.10-9 | 0,300 | 1,4.10-9 | 7,2.10-10 | 4,6.10-10 | 2,9.10-10 | 2,4.10-10 |
| M | 0,200 | 2,3.10-9 | 0,100 | 1,9.10-9 | 1,0.10-9 | 6,8.10-10 | 4,7.10-10 | 3,8.10-10 |
| S | 0,020 | 2,4.10-9 | 0,010 | 2,0.10-9 | 1,1.10-9 | 7,2.10-10 | 5,1.10-10 | 4,1.10-10 |
| Te‑121m | 154 d | F | 0,600 | 1,4.10-8 | 0,300 | 1,0.10-8 | 5,3.10-9 | 3,3.10-9 | 2,1.10-9 | 1,8.10-9 |
| M | 0,200 | 1,9.10-8 | 0,100 | 1,5.10-8 | 8,8.10-9 | 6,1.10-9 | 5,1.10-9 | 4,2.10-9 |
| S | 0,020 | 2,3.10-8 | 0,010 | 1,9.10-8 | 1,2.10-8 | 8,1.10-9 | 6,9.10-9 | 5,7.10-9 |
| Te‑123 | 1,00.1013 r | F | 0,600 | 1,1.10-8 | 0,300 | 9,1.10-9 | 6,2.10-9 | 4,8.10-9 | 4,0.10-9 | 3,9.10-9 |
| M | 0,200 | 5,6.10-9 | 0,100 | 4,4.10-9 | 3,0.10-9 | 2,3.10-9 | 2,0.10-9 | 1,9.10-9 |
| S | 0,020 | 5,3.10-9 | 0,010 | 5,0.10-9 | 3,5.10-9 | 2,4.10-9 | 2,1.10-9 | 2,0.10-9 |
| Te‑123m | 120 d | F | 0,600 | 9,8.10-9 | 0,300 | 6,8.10-9 | 3,4.10-9 | 1,9.10-9 | 1,1.10-9 | 9,5.10-10 |
| M | 0,200 | 1,8.10-8 | 0,100 | 1,3.10-8 | 8,0.10-9 | 5,7.10-9 | 5,0.10-9 | 4,0.10-9 |
| S | 0,020 | 2,0.10-8 | 0,010 | 1,6.10-8 | 9,8.10-9 | 7,1.10-9 | 6,3.10-9 | 5,1.10-9 |
| Te‑125m | 58,0 d | F | 0,600 | 6,2.10-9 | 0,300 | 4,2.10-9 | 2,0.10-9 | 1,1.10-9 | 6,1.10-10 | 5,1.10-10 |
| M | 0,200 | 1,5.10-8 | 0,100 | 1,1.10-8 | 6,6.10-9 | 4,8.10-9 | 4,3.10-9 | 3,4.10-9 |
| S | 0,020 | 1,7.10-8 | 0,010 | 1,3.10-8 | 7,8.10-9 | 5,8.10-9 | 5,3.10-9 | 4,2.10-9 |
| Te‑127 | 9,35 h | F | 0,600 | 4,3.10-10 | 0,300 | 3,2.10-10 | 1,4.10-10 | 8,5.10-11 | 4,5.10-11 | 3,9.10-11 |
| M | 0,200 | 1,0.10-9 | 0,100 | 7,3.10-10 | 3,6.10-10 | 2,4.10-10 | 1,6.10-10 | 1,3.10-10 |
| S | 0,020 | 1,2.10-9 | 0,010 | 7,9.10-10 | 3,9.10-10 | 2,6.10-10 | 1,7.10-10 | 1,4.10-10 |
| Te‑127m | 109 d | F | 0,600 | 2,1.10-8 | 0,300 | 1,4.10-8 | 6,5.10-9 | 3,5.10-9 | 2,0.10-9 | 1,5.10-9 |
| M | 0,200 | 3,5.10-8 | 0,100 | 2,6.10-8 | 1,5.10-8 | 1,1.10-8 | 9,2.10-9 | 7,4.10-9 |
| S | 0,020 | 4,1.10-8 | 0,010 | 3,3.10-8 | 2,0.10-8 | 1,4.10-8 | 1,2.10-8 | 9,8.10-9 |
| Te‑129 | 1,16 h | F | 0,600 | 1,8.10-10 | 0,300 | 1,2.10-10 | 5,1.10-11 | 3,2.10-11 | 1,9.10-11 | 1,6.10-11 |
| M | 0,200 | 3,3.10-10 | 0,100 | 2,2.10-10 | 9,9.10-11 | 6,5.10-11 | 4,4.10-11 | 3,7.10-11 |
| S | 0,020 | 3,5.10-10 | 0,010 | 2,3.10-10 | 1,0.10-10 | 6,9.10-11 | 4,7.10-11 | 3,9.10-11 |
| Te‑129m | 33,6 d | F | 0,600 | 2,0.10-8 | 0,300 | 1,3.10-8 | 5,8.10-9 | 3,1.10-9 | 1,7.10-9 | 1,3.10-9 |
| M | 0,200 | 3,5.10-8 | 0,100 | 2,6.10-8 | 1,4.10-8 | 9,8.10-9 | 8,0.10-9 | 6,6.10-9 |
| S | 0,020 | 3,8.10-8 | 0,010 | 2,9.10-8 | 1,7.10-8 | 1,2.10-8 | 9,6.10-9 | 7,9.10-9 |
| Te‑131 | 0,417 h | F | 0,600 | 2,3.10-10 | 0,300 | 2,0.10-10 | 9,9.10-11 | 5,3.10-11 | 3,3.10-11 | 2,3.10-11 |
| M | 0,200 | 2,6.10-10 | 0,100 | 1,7.10-10 | 8,1.10-11 | 5,2.10-11 | 3,5.10-11 | 2,8.10-11 |
| S | 0,020 | 2,4.10-10 | 0,010 | 1,6.10-10 | 7,4.10-11 | 4,9.10-11 | 3,3.10-11 | 2,8.10-11 |
| Te‑131m | 1,25 d | F | 0,600 | 8,7.10-9 | 0,300 | 7,6.10-9 | 3,9.10-9 | 2,0.10-9 | 1,2.10-9 | 8,6.10-10 |
| M | 0,200 | 7,9.10-9 | 0,100 | 5,8.10-9 | 3,0.10-9 | 1,9.10-9 | 1,2.10-9 | 9,4.10-10 |
| S | 0,020 | 7,0.10-9 | 0,010 | 5,1.10-9 | 2,6.10-9 | 1,8.10-9 | 1,1.10-9 | 9,1.10-10 |
| Te‑132 | 3,26 d | F | 0,600 | 2,2.10-8 | 0,300 | 1,8.10-8 | 8,5.10-9 | 4,2.10-9 | 2,6.10-9 | 1,8.10-9 |
| M | 0,200 | 1,6.10-8 | 0,100 | 1,3.10-8 | 6,4.10-9 | 4,0.10-9 | 2,6.10-9 | 2,0.10-9 |
| S | 0,020 | 1,5.10-8 | 0,010 | 1,1.10-8 | 5,8.10-9 | 3,8.10-9 | 2,5.10-9 | 2,0.10-9 |
| Te‑133 | 0,207 h | F | 0,600 | 2,4.10-10 | 0,300 | 2,1.10-10 | 9,6.10-11 | 4,6.10-11 | 2,8.10-11 | 1,9.10-11 |
| M | 0,200 | 2,0.10-10 | 0,100 | 1,3.10-10 | 6,1.10-11 | 3,8.10-11 | 2,4.10-11 | 2,0.10-11 |
| S | 0,020 | 1,7.10-10 | 0,010 | 1,2.10-10 | 5,4.10-11 | 3,5.10-11 | 2,2.10-11 | 1,9.10-11 |
| Te‑133m | 0,923 h | F | 0,600 | 1,0.10-9 | 0,300 | 8,9.10-10 | 4,1.10-10 | 2,0.10-10 | 1,2.10-10 | 8,1.10-11 |
| M | 0,200 | 8,5.10-10 | 0,100 | 5,8.10-10 | 2,8.10-10 | 1,7.10-10 | 1,1.10-10 | 8,7.10-11 |
| S | 0,020 | 7,4.10-10 | 0,010 | 5,1.10-10 | 2,5.10-10 | 1,6.10-10 | 1,0.10-10 | 8,4.10-11 |
| Te‑134 | 0,696 h | F | 0,600 | 4,7.10-10 | 0,300 | 3,7.10-10 | 1,8.10-10 | 1,0.10-10 | 6,0.10-11 | 4,7.10-11 |
| M | 0,200 | 5,5.10-10 | 0,100 | 3,9.10-10 | 1,9.10-10 | 1,2.10-10 | 8,1.10-11 | 6,6.10-11 |
| S | 0,020 | 5,6.10-10 | 0,010 | 4,0.10-10 | 1,9.10-10 | 1,3.10-10 | 8,4.10-11 | 6,8.10-11 |
| **Jód** | | | | | | | | | | |
| I‑120 | 1,35 h | F | 1,000 | 1,3.10-9 | 1,000 | 1,0.10-9 | 4,8.10-10 | 2,3.10-10 | 1,4.10-10 | 1,0.10-10 |
| M | 0,200 | 1,1.10-9 | 0,100 | 7,3.10-10 | 3,4.10-10 | 2,1.10-10 | 1,3.10-10 | 1,0.10-10 |
| S | 0,020 | 1,0.10-9 | 0,010 | 6,9.10-10 | 3,2.10-10 | 2,0.10-10 | 1,2.10-10 | 1,0.10-10 |
| I‑120m | 0,883 h | F | 1,000 | 8,6.10-10 | 1,000 | 6,9.10-10 | 3,3.10-10 | 1,8.10-10 | 1,1.10-10 | 8,2.10-11 |
| M | 0,200 | 8,2.10-10 | 0,100 | 5,9.10-10 | 2,9.10-10 | 1,8.10-10 | 1,1.10-10 | 8,7.10-11 |
| S | 0,020 | 8,2.10-10 | 0,010 | 5,8.10-10 | 2,8.10-10 | 1,8.10-10 | 1,1.10-10 | 8,8.10-11 |
| I‑121 | 2,12 h | F | 1,000 | 2,3.10-10 | 1,000 | 2,1.10-10 | 1,1.10-10 | 6,0.10-11 | 3,8.10-11 | 2,7.10-11 |
| M | 0,200 | 2,1.10-10 | 0,100 | 1,5.10-10 | 7,8.10-11 | 4,9.10-11 | 3,2.10-11 | 2,5.10-11 |
| S | 0,020 | 1,9.10-10 | 0,010 | 1,4.10-10 | 7,0.10-11 | 4,5.10-11 | 3,0.10-11 | 2,4.10-11 |
| I‑123 | 13,2 h | F | 1,000 | 8,7.10-10 | 1,000 | 7,9.10-10 | 3,8.10-10 | 1,8.10-10 | 1,1.10-10 | 7,4.10-11 |
| M | 0,200 | 5,3.10-10 | 0,100 | 3,9.10-10 | 2,0.10-10 | 1,2.10-10 | 8,2.10-11 | 6,4.10-11 |
| S | 0,020 | 4,3.10-10 | 0,010 | 3,2.10-10 | 1,7.10-10 | 1,1.10-10 | 7,6.10-11 | 6,0.10-11 |
| I‑124 | 4,18 d | F | 1,000 | 4,7.10-8 | 1,000 | 4,5.10-8 | 2,2.10-8 | 1,1.10-8 | 6,7.10-9 | 4,4.10-9 |
| M | 0,200 | 1,4.10-8 | 0,100 | 9,3.10-9 | 4,6.10-9 | 2,5.10-9 | 1,6.10-9 | 1,2.10-9 |
| S | 0,020 | 6,2.10-9 | 0,010 | 4,4.10-9 | 2,2.10-9 | 1,4.10-9 | 9,4.10-10 | 7,7.10-10 |
| I‑125 | 60,1 d | F | 1,000 | 2,0.10-8 | 1,000 | 2,3.10-8 | 1,5.10-8 | 1,1.10-8 | 7,2.10-9 | 5,1.10-9 |
| M | 0,200 | 6,9.10-9 | 0,100 | 5,6.10-9 | 3,6.10-9 | 2,6.10-9 | 1,8.10-9 | 1,4.10-9 |
| S | 0,020 | 2,4.10-9 | 0,010 | 1,8.10-9 | 1,0.10-9 | 6,7.10-10 | 4,8.10-10 | 3,8.10-10 |
| I‑126 | 13,0 d | F | 1,000 | 8,1.10-8 | 1,000 | 8,3.10-8 | 4,5.10-8 | 2,4.10-8 | 1,5.10-8 | 9,8.10-9 |
| M | 0,200 | 2,4.10-8 | 0,100 | 1,7.10-8 | 9,5.10-9 | 5,5.10-9 | 3,8.10-9 | 2,7.10-9 |
| S | 0,020 | 8,3.10-9 | 0,010 | 5,9.10-9 | 3,3.10-9 | 2,2.10-9 | 1,8.10-9 | 1,4.10-9 |
| I‑128 | 0,416 h | F | 1,000 | 1,5.10-10 | 1,000 | 1,1.10-10 | 4,7.10-11 | 2,7.10-11 | 1,6.10-11 | 1,3.10-11 |
| M | 0,200 | 1,9.10-10 | 0,100 | 1,2.10-10 | 5,3.10-11 | 3,4.10-11 | 2,2.10-11 | 1,9.10-11 |
| S | 0,020 | 1,9.10-10 | 0,010 | 1,2.10-10 | 5,4.10-11 | 3,5.10-11 | 2,3.10-11 | 2,0.10-11 |
| I‑129 | 1,57.107 r | F | 1,000 | 7,2.10-8 | 1,000 | 8,6.10-8 | 6,1.10-8 | 6,7.10-8 | 4,6.10-8 | 3,6.10-8 |
| M | 0,200 | 3,6.10-8 | 0,100 | 3,3.10-8 | 2,4.10-8 | 2,4.10-8 | 1,9.10-8 | 1,5.10-8 |
| S | 0,020 | 2,9.10-8 | 0,010 | 2,6.10-8 | 1,8.10-8 | 1,3.10-8 | 1,1.10-8 | 9,8.10-9 |
| I‑130 | 12,4 h | F | 1,000 | 8,2.10-9 | 1,000 | 7,4.10-9 | 3,5.10-9 | 1,6.10-9 | 1,0.10-9 | 6,7.10-10 |
| M | 0,200 | 4,3.10-9 | 0,100 | 3,1.10-9 | 1,5.10-9 | 9,2.10-10 | 5,8.10-10 | 4,5.10-10 |
| S | 0,020 | 3,3.10-9 | 0,010 | 2,4.10-9 | 1,2.10-9 | 7,9.10-10 | 5,1.10-10 | 4,1.10-10 |
| I‑131 | 8,04 d | F | 1,000 | 7,2.10-8 | 1,000 | 7,2.10-8 | 3,7.10-8 | 1,9.10-8 | 1,1.10-8 | 7,4.10-9 |
| M | 0,200 | 2,2.10-8 | 0,100 | 1,5.10-8 | 8,2.10-9 | 4,7.10-9 | 3,4.10-9 | 2,4.10-9 |
| S | 0,020 | 8,8.10-9 | 0,010 | 6,2.10-9 | 3,5.10-9 | 2,4.10-9 | 2,0.10-9 | 1,6.10-9 |
| I‑132 | 2,30 h | F | 1,000 | 1,1.10-9 | 1,000 | 9,6.10-10 | 4,5.10-10 | 2,2.10-10 | 1,3.10-10 | 9,4.10-11 |
| M | 0,200 | 9,9.10-10 | 0,100 | 7,3.10-10 | 3,6.10-10 | 2,2.10-10 | 1,4.10-10 | 1,1.10-10 |
| S | 0,020 | 9,3.10-10 | 0,010 | 6,8.10-10 | 3,4.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
| I‑132m | 1,39 h | F | 1,000 | 9,6.10-10 | 1,000 | 8,4.10-10 | 4,0.10-10 | 1,9.10-10 | 1,2.10-10 | 7,9.10-11 |
| M | 0,200 | 7,2.10-10 | 0,100 | 5,3.10-10 | 2,6.10-10 | 1,6.10-10 | 1,1.10-10 | 8,7.10-11 |
| S | 0,020 | 6,6.10-10 | 0,010 | 4,8.10-10 | 2,4.10-10 | 1,6.10-10 | 1,1.10-10 | 8,5.10-11 |
| I‑133 | 20,8 h | F | 1,000 | 1,9.10-8 | 1,000 | 1,8.10-8 | 8,3.10-9 | 3,8.10-9 | 2,2.10-9 | 1,5.10-9 |
| M | 0,200 | 6,6.10-9 | 0,100 | 4,4.10-9 | 2,1.10-9 | 1,2.10-9 | 7,4.10-10 | 5,5.10-10 |
| S | 0,020 | 3,8.10-9 | 0,010 | 2,9.10-9 | 1,4.10-9 | 9,0.10-10 | 5,3.10-10 | 4,3.10-10 |
| I‑134 | 0,876 h | F | 1,000 | 4,6.10-10 | 1,000 | 3,7.10-10 | 1,8.10-10 | 9,7.10-11 | 5,9.10-11 | 4,5.10-11 |
| M | 0,200 | 4,8.10-10 | 0,100 | 3,4.10-10 | 1,7.10-10 | 1,0.10-10 | 6,7.10-11 | 5,4.10-11 |
| S | 0,020 | 4,8.10-10 | 0,010 | 3,4.10-10 | 1,7.10-10 | 1,1.10-10 | 6,8.10-11 | 5,5.10-11 |
| I‑135 | 6,61 h | F | 1,000 | 4,1.10-9 | 1,000 | 3,7.10-9 | 1,7.10-9 | 7,9.10-10 | 4,8.10-10 | 3,2.10-10 |
| M | 0,200 | 2,2.10-9 | 0,100 | 1,6.10-9 | 7,8.10-10 | 4,7.10-10 | 3,0.10-10 | 2,4.10-10 |
| S | 0,020 | 1,8.10-9 | 0,010 | 1,3.10-9 | 6,5.10-10 | 4,2.10-10 | 2,7.10-10 | 2,2.10-10 |
| **Cézium** | | | | | | | | | | |
| Cs‑125 | 0,750 h | F | 1,000 | 1,2.10-10 | 1,000 | 8,3.10-11 | 3,9.10-11 | 2,4.10-11 | 1,4.10-11 | 1,2.10-11 |
| M | 0,200 | 2,0.10-10 | 0,100 | 1,4.10-10 | 6,5.10-11 | 4,2.10-11 | 2,7.10-11 | 2,2.10-11 |
| S | 0,020 | 2,1.10-10 | 0,010 | 1,4.10-10 | 6,8.10-11 | 4,4.10-11 | 2,8.10-11 | 2,3.10-11 |
| Cs‑127 | 6,25 h | F | 1,000 | 1,6.10-10 | 1,000 | 1,3.10-10 | 6,9.10-11 | 4,2.10-11 | 2,5.10-11 | 2,0.10-11 |
|  |  | M | 0,200 | 2,8.10-10 | 0,100 | 2,2.10-10 | 1,1.10-10 | 7,3.10-11 | 4,6.10-11 | 3,6.10-11 |
|  |  | S | 0,020 | 3,0.10-10 | 0,010 | 2,3.10-10 | 1,2.10-10 | 7,6.10-11 | 4,8.10-11 | 3,8.10-11 |
| Cs‑129 | 1,34 d | F | 1,000 | 3,4.10-10 | 1,000 | 2,8.10-10 | 1,4.10-10 | 8,7.10-11 | 5,2.10-11 | 4,2.10-11 |
|  |  | M | 0,200 | 5,7.10-10 | 0,100 | 4,6.10-10 | 2,4.10-10 | 1,5.10-10 | 9,1.10-11 | 7,3.10-11 |
|  |  | S | 0,020 | 6,3.10-10 | 0,010 | 4,9.10-10 | 2,5.10-10 | 1,6.10-10 | 9,7.10-11 | 7,7.10-11 |
| Cs‑130 | 0,498 h | F | 1,000 | 8,3.10-11 | 1,000 | 5,6.10-11 | 2,5.10-11 | 1,6.10-11 | 9,4.10-12 | 7,8.10-12 |
|  |  | M | 0,200 | 1,3.10-10 | 0,100 | 8,7.10-11 | 4,0.10-11 | 2,5.10-11 | 1,6.10-11 | 1,4.10-11 |
|  |  | S | 0,020 | 1,4.10-10 | 0,010 | 9,0.10-11 | 4,1.10-11 | 2,6.10-11 | 1,7.10-11 | 1,4.10-11 |
| Cs‑131 | 9,69 d | F | 1,000 | 2,4.10-10 | 1,000 | 1,7.10-10 | 8,4.10-11 | 5,3.10-11 | 3,2.10-11 | 2,7.10-11 |
|  |  | M | 0,200 | 3,5.10-10 | 0,100 | 2,6.10-10 | 1,4.10-10 | 8,5.10-11 | 5,5.10-11 | 4,4.10-11 |
|  |  | S | 0,020 | 3,8.10-10 | 0,010 | 2,8.10-10 | 1,4.10-10 | 9,1.10-11 | 5,9.10-11 | 4,7.10-11 |
| Cs‑132 | 6,48 d | F | 1,000 | 1,5.10-9 | 1,000 | 1,2.10-9 | 6,4.10-10 | 4,1.10-10 | 2,7.10-10 | 2,3.10-10 |
|  |  | M | 0,200 | 1,9.10-9 | 0,100 | 1,5.10-9 | 8,4.10-10 | 5,4.10-10 | 3,7.10-10 | 2,9.10-10 |
|  |  | S | 0,020 | 2,0.10-9 | 0,010 | 1,6.10-9 | 8,7.10-10 | 5,6.10-10 | 3,8.10-10 | 3,0.10-10 |
| Cs‑134 | 2,06 r | F | 1,000 | 1,1.10-8 | 1,000 | 7,3.10-9 | 5,2.10-9 | 5,3.10-9 | 6,3.10-9 | 6,6.10-9 |
|  |  | M | 0,200 | 3,2.10-8 | 0,100 | 2,6.10-8 | 1,6.10-8 | 1,2.10-8 | 1,1.10-8 | 9,1.10-9 |
|  |  | S | 0,020 | 7,0.10-8 | 0,010 | 6,3.10-8 | 4,1.10-8 | 2,8.10-8 | 2,3.10-8 | 2,0.10-8 |
| Cs‑134m | 2,90 h | F | 1,000 | 1,3.10-10 | 1,000 | 8,6.10-11 | 3,8.10-11 | 2,5.10-11 | 1,6.10-11 | 1,4.10-11 |
|  |  | M | 0,200 | 3,3.10-10 | 0,100 | 2,3.10-10 | 1,2.10-10 | 8,3.10-11 | 6,6.10-11 | 5,4.10-11 |
|  |  | S | 0,020 | 3,6.10-10 | 0,010 | 2,5.10-10 | 1,3.10-10 | 9,2.10-11 | 7,4.10-11 | 6,0.10-11 |
| Cs‑135 | 2,30.106 r | F | 1,000 | 1,7.10-9 | 1,000 | 9,9.10-10 | 6,2.10-10 | 6,1.10-10 | 6,8.10-10 | 6,9.10-10 |
|  |  | M | 0,200 | 1,2.10-8 | 0,100 | 9,3.10-9 | 5,7.10-9 | 4,1.10-9 | 3,8.10-9 | 3,1.10-9 |
|  |  | S | 0,020 | 2,7.10-8 | 0,010 | 2,4.10-8 | 1,6.10-8 | 1,1.10-8 | 9,5.10-9 | 8,6.10-9 |
| Cs‑135m | 0,883 h | F | 1,000 | 9,2.10-11 | 1,000 | 7,8.10-11 | 4,1.10-11 | 2,4.10-11 | 1,5.10-11 | 1,2.10-11 |
|  |  | M | 0,200 | 1,2.10-10 | 0,100 | 9,9.10-11 | 5,2.10-11 | 3,2.10-11 | 1,9.10-11 | 1,5.10-11 |
|  |  | S | 0,020 | 1,2.10-10 | 0,010 | 1,0.10-10 | 5,3.10-11 | 3,3.10-11 | 2,0.10-11 | 1,6.10-11 |
| Cs‑136 | 13,1 d | F | 1,000 | 7,3.10-9 | 1,000 | 5,2.10-9 | 2,9.10-9 | 2,0.10-9 | 1,4.10-9 | 1,2.10-9 |
|  |  | M | 0,200 | 1,3.10-8 | 0,100 | 1,0.10-8 | 6,0.10-9 | 3,7.10-9 | 3,1.10-9 | 2,5.10-9 |
|  |  | S | 0,020 | 1,5.10-8 | 0,010 | 1,1.10-8 | 5,7.10-9 | 4,1.10-9 | 3,5.10-9 | 2,8.10-9 |
| Cs‑137 | 30,0 r | F | 1,000 | 8,8.10-9 | 1,000 | 5,4.10-9 | 3,6.10-9 | 3,7.10-9 | 4,4.10-9 | 4,6.10-9 |
|  |  | M | 0,200 | 3,6.10-8 | 0,100 | 2,9.10-8 | 1,8.10-8 | 1,3.10-8 | 1,1.10-8 | 9,7.10-9 |
|  |  | S | 0,020 | 1,1.10-7 | 0,010 | 1,0.10-7 | 7,0.10-8 | 4,8.10-8 | 4,2.10-8 | 3,9.10-8 |
| Cs‑138 | 0,536 h | F | 1,000 | 2,6.10-10 | 1,000 | 1,8.10-10 | 8,1.10-11 | 5,0.10-11 | 2,9.10-11 | 2,4.10-11 |
|  |  | M | 0,200 | 4,0.10-10 | 0,100 | 2,7.10-10 | 1,3.10-10 | 7,8.10-11 | 4,9.10-11 | 4,1.10-11 |
|  |  | S | 0,020 | 4,2.10-10 | 0,010 | 2,8.10-10 | 1,3.10-10 | 8,2.10-11 | 5,1.10-11 | 4,3.10-11 |
| **Báryum** | | | | | | | | | | |
| Ba‑126 | 1,61 h | F | 0,600 | 6,7.10-10 | 0,200 | 5,2.10-10 | 2,4.10-10 | 1,4.10-10 | 6,9.10-11 | 7,4.10-11 |
|  |  | M | 0,200 | 1,0.10-9 | 0,100 | 7,0.10-10 | 3,2.10-10 | 2,0.10-10 | 1,2.10-10 | 1,0.10-10 |
|  |  | S | 0,020 | 1,1.10-9 | 0,010 | 7,2.10-10 | 3,3.10-10 | 2,1.10-10 | 1,3.10-10 | 1,1.10-10 |
| Ba‑128 | 2,43 h | F | 0,600 | 5,9.10-9 | 0,200 | 5,4.10-9 | 2,5.10-9 | 1,4.10-9 | 7,4.10-10 | 7,6.10-10 |
|  |  | M | 0,200 | 1,1.10-8 | 0,100 | 7,8.10-9 | 3,7.10-9 | 2,4.10-9 | 1,5.10-9 | 1,3.10-9 |
|  |  | S | 0,020 | 1,2.10-8 | 0,010 | 8,3.10-9 | 4,0.10-9 | 2,6.10-9 | 1,6.10-9 | 1,4.10-9 |
| Ba‑131 | 11,8 d | F | 0,600 | 2,1.10-9 | 0,200 | 1,4.10-9 | 7,1.10-10 | 4,7.10-10 | 3,1.10-10 | 2,2.10-10 |
|  |  | M | 0,200 | 3,7.10-9 | 0,100 | 3,1.10-9 | 1,6.10-9 | 1,1.10-9 | 9,7.10-10 | 7,6.10-10 |
|  |  | S | 0,020 | 4,0.10-9 | 0,010 | 3,0.10-9 | 1,8.10-9 | 1,3.10-9 | 1,1.10-9 | 8,7.10-10 |
| Ba‑131m | 0,243 h | F | 0,600 | 2,7.10-11 | 0,200 | 2,1.10-11 | 1,0.10-11 | 6,7.10-12 | 4,7.10-12 | 4,0.10-12 |
|  |  | M | 0,200 | 4,8.10-11 | 0,100 | 3,3.10-11 | 1,7.10-11 | 1,2.10-11 | 9,0.10-12 | 7,4.10-12 |
|  |  | S | 0,020 | 5,0.10-11 | 0,010 | 3,5.10-11 | 1,8.10-11 | 1,2.10-11 | 9,5.10-12 | 7,8.10-12 |
| Ba‑133 | 10,7 r | F | 0,600 | 1,1.10-8 | 0,200 | 4,5.10-9 | 2,6.10-9 | 3,7.10-9 | 6,0.10-9 | 1,5.10-9 |
|  |  | M | 0,200 | 1,5.10-8 | 0,100 | 1,0.10-8 | 6,4.10-9 | 5,1.10-9 | 5,5.10-9 | 3,1.10-9 |
|  |  | S | 0,020 | 3,2.10-8 | 0,010 | 2,9.10-8 | 2,0.10-8 | 1,3.10-8 | 1,1.10-8 | 1,0.10-8 |
| Ba‑133m | 1,62 d | F | 0,600 | 1,4.10-9 | 0,200 | 1,1.10-9 | 4,9.10-10 | 3,1.10-10 | 1,5.10-10 | 1,8.10-10 |
|  |  | M | 0,200 | 3,0.10-9 | 0,100 | 2,2.10-9 | 1,0.10-9 | 6,9.10-10 | 5,2.10-10 | 4,2.10-10 |
|  |  | S | 0,020 | 3,1.10-9 | 0,010 | 2,4.10-9 | 1,1.10-9 | 7,6.10-10 | 5,8.10-10 | 4,6.10-10 |
| Ba‑135m | 1,20 d | F | 0,600 | 1,1.10-9 | 0,200 | 1,0.10-9 | 4,6.10-10 | 2,5.10-10 | 1,2.10-10 | 1,4.10-10 |
|  |  | M | 0,200 | 2,4.10-9 | 0,100 | 1,8.10-9 | 8,9.10-10 | 5,4.10-10 | 4,1.10-10 | 3,3.10-10 |
|  |  | S | 0,020 | 2,7.10-9 | 0,010 | 1,9.10-9 | 8,6.10-10 | 5,9.10-10 | 4,5.10-10 | 3,6.10-10 |
| Ba‑139 | 1,38 h | F | 0,600 | 3,3.10-10 | 0,200 | 2,4.10-10 | 1,1.10-10 | 6,0.10-11 | 3,1.10-11 | 3,4.10-11 |
|  |  | M | 0,200 | 5,4.10-10 | 0,100 | 3,5.10-10 | 1,6.10-10 | 1,0.10-10 | 6,6.10-11 | 5,6.10-11 |
|  |  | S | 0,020 | 5,7.10-10 | 0,010 | 3,6.10-10 | 1,6.10-10 | 1,1.10-10 | 7,0.10-11 | 5,9.10-11 |
| Ba‑140 | 12,7 d | F | 0,600 | 1,4.10-8 | 0,200 | 7,8.10-9 | 3,6.10-9 | 2,4.10-9 | 1,6.10-9 | 1,0.10-9 |
|  |  | M | 0,200 | 2,7.10-8 | 0,100 | 2,0.10-8 | 1,1.10-8 | 7,6.10-9 | 6,2.10-9 | 5,1.10-9 |
|  |  | S | 0,020 | 2,9.10-8 | 0,010 | 2,2.10-8 | 1,2.10-8 | 8,6.10-9 | 7,1.10-9 | 5,8.10-9 |
| Ba‑141 | 0,305 h | F | 0,600 | 1,9.10-10 | 0,200 | 1,4.10-10 | 6,4.10-11 | 3,8.10-11 | 2,1.10-11 | 2,1.10-11 |
|  |  | M | 0,200 | 3,0.10-10 | 0,100 | 2,0.10-10 | 9,3.10-11 | 5,9.10-11 | 3,8.10-11 | 3,2.10-11 |
|  |  | S | 0,020 | 3,2.10-10 | 0,010 | 2,1.10-10 | 9,7.10-11 | 6,2.10-11 | 4,0.10-11 | 3,4.10-11 |
| Ba‑142 | 0,177 h | F | 0,600 | 1,3.10-10 | 0,200 | 9,6.10-11 | 4,5.10-11 | 2,7.10-11 | 1,6.10-11 | 1,5.10-11 |
|  |  | M | 0,200 | 1,8.10-10 | 0,100 | 1,3.10-10 | 6,1.10-11 | 3,9.10-11 | 2,5.10-11 | 2,1.10-11 |
|  |  | S | 0,020 | 1,9.10-10 | 0,010 | 1,3.10-10 | 6,2.10-11 | 4,0.10-11 | 2,6.10-11 | 2,2.10-11 |
| **Lantán** | | | | | | | | | | |
| La‑131 | 0,983 h | F | 0,005 | 1,2.10-10 | 5,0.10-4 | 8,7.10-11 | 4,2.10-11 | 2,6.10-11 | 1,5.10-11 | 1,3.10-11 |
|  |  | M | 0,005 | 1,8.10-10 | 5,0.10-4 | 1,3.10-10 | 6,4.10-11 | 4,1.10-11 | 2,8.10-11 | 2,3.10-11 |
| La‑132 | 4,80 h | F | 0,005 | 1,0.10-9 | 5,0.10-4 | 7,7.10-10 | 3,7.10-10 | 2,2.10-10 | 1,2.10-10 | 1,0.10-10 |
|  |  | M | 0,005 | 1,5.10-9 | 5,0.10-4 | 1,1.10-9 | 5,4.10-10 | 3,4.10-10 | 2,0.10-10 | 1,6.10-10 |
| La‑135 | 19,5 h | F | 0,005 | 1,0.10-10 | 5,0.10-4 | 7,7.10-11 | 3,8.10-11 | 2,3.10-11 | 1,3.10-11 | 1,0.10-11 |
|  |  | M | 0,005 | 1,3.10-10 | 5,0.10-4 | 1,0.10-10 | 4,9.10-11 | 3,0.10-11 | 1,7.10-11 | 1,4.10-11 |
| La‑137 | 6,00.104 r | F | 0,005 | 2,5.10-8 | 5,0.10-4 | 2,3.10-8 | 1,5.10-8 | 1,1.10-8 | 8,9.10-9 | 8,7.10-9 |
|  |  | M | 0,005 | 8,6.10-9 | 5,0.10-4 | 8,1.10-9 | 5,6.10-9 | 4,0.10-9 | 3,6.10-9 | 3,6.10-9 |
| La‑138 | 1,35.1011 r | F | 0,005 | 3,7.10-7 | 5,0.10-4 | 3,5.10-7 | 2,4.10-7 | 1,8.10-7 | 1,6.10-7 | 1,5.10-7 |
|  |  | M | 0,005 | 1,3.10-7 | 5,0.10-4 | 1,2.10-7 | 9,1.10-8 | 6,8.10-8 | 6,4.10-8 | 6,4.10-8 |
| La‑140 | 1,68 d | F | 0,005 | 5,8.10-9 | 5,0.10-4 | 4,2.10-9 | 2,0.10-9 | 1,2.10-9 | 6,9.10-10 | 5,7.10-10 |
|  |  | M | 0,005 | 8,8.10-9 | 5,0.10-4 | 6,3.10-9 | 3,1.10-9 | 2,0.10-9 | 1,3.10-9 | 1,1.10-9 |
| La‑141 | 3,93 h | F | 0,005 | 8,6.10-10 | 5,0.10-4 | 5,5.10-10 | 2,3.10-10 | 1,4.10-10 | 7,5.10-11 | 6,3.10-11 |
|  |  | M | 0,005 | 1,4.10-9 | 5,0.10-4 | 9,3.10-10 | 4,3.10-10 | 2,8.10-10 | 1,8.10-10 | 1,5.10-10 |
| La‑142 | 1,54 h | F | 0,005 | 5,3.10-10 | 5,0.10-4 | 3,8.10-10 | 1,8.10-10 | 1,1.10-10 | 6,3.10-11 | 5,2.10-11 |
|  |  | M | 0,005 | 8,1.10-10 | 5,0.10-4 | 5,7.10-10 | 2,7.10-10 | 1,7.10-10 | 1,1.10-10 | 8,9.10-11 |
| La‑143 | 0,237 h | F | 0,005 | 1,4.10-10 | 5,0.10-4 | 8,6.10-11 | 3,7.10-11 | 2,3.10-11 | 1,4.10-11 | 1,2.10-11 |
|  |  | M | 0,005 | 2,1.10-10 | 5,0.10-4 | 1,3.10-10 | 6,0.10-11 | 3,9.10-11 | 2,5.10-11 | 2,1.10-11 |
| **Cér** | | | | | | | | | | |
| Ce‑134 | 3,00 d | F | 0,005 | 7,6.10-9 | 5,0.10-4 | 5,3.10-9 | 2,3.10-9 | 1,4.10-9 | 7,7.10-10 | 5,7.10-10 |
|  |  | M | 0,005 | 1,1.10-8 | 5,0.10-4 | 7,6.10-9 | 3,7.10-9 | 2,4.10-9 | 1,5.10-9 | 1,3.10-9 |
|  |  | S | 0,005 | 1,2.10-8 | 5,0.10-4 | 8,0.10-9 | 3,8.10-9 | 2,5.10-9 | 1,6.10-9 | 1,3.10-9 |
| Ce‑135 | 17,6 h | F | 0,005 | 2,3.10-9 | 5,0.10-4 | 1,7.10-9 | 8,5.10-10 | 5,3.10-10 | 3,0.10-10 | 2,4.10-10 |
|  |  | M | 0,005 | 3,6.10-9 | 5,0.10-4 | 2,7.10-9 | 1,4.10-9 | 8,9.10-10 | 5,9.10-10 | 4,8.10-10 |
|  |  | S | 0,005 | 3,7.10-9 | 5,0.10-4 | 2,8.10-9 | 1,4.10-9 | 9,4.10-10 | 6,3.10-10 | 5,0.10-10 |
| Ce‑137 | 9,00 h | F | 0,005 | 7,5.10-11 | 5,0.10-4 | 5,6.10-11 | 2,7.10-11 | 1,6.10-11 | 8,7.10-12 | 7,0.10-12 |
|  |  | M | 0,005 | 1,1.10-10 | 5,0.10-4 | 7,6.10-11 | 3,6.10-11 | 2,2.10-11 | 1,2.10-11 | 9,8.10-12 |
|  |  | S | 0,005 | 1,1.10-10 | 5,0.10-4 | 7,8.10-11 | 3,7.10-11 | 2,3.10-11 | 1,3.10-11 | 1,0.10-11 |
| Ce‑137m | 1,43 d | F | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,1.10-9 | 4,6.10-10 | 2,8.10-10 | 1,5.10-10 | 1,2.10-10 |
|  |  | M | 0,005 | 3,1.10-9 | 5,0.10-4 | 2,2.10-9 | 1,1.10-9 | 6,7.10-10 | 5,1.10-10 | 4,1.10-10 |
|  |  | S | 0,005 | 3,3.10-9 | 5,0.10-4 | 2,3.10-9 | 1,0.10-9 | 7,3.10-10 | 5,6.10-10 | 4,4.10-10 |
| Ce‑139 | 138 d | F | 0,005 | 1,1.10-8 | 5,0.10-4 | 8,5.10-9 | 4,5.10-9 | 2,8.10-9 | 1,8.10-9 | 1,5.10-9 |
|  |  | M | 0,005 | 7,5.10-9 | 5,0.10-4 | 6,1.10-9 | 3,6.10-9 | 2,5.10-9 | 2,1.10-9 | 1,7.10-9 |
|  |  | S | 0,005 | 7,8.10-9 | 5,0.10-4 | 6,3.10-9 | 3,9.10-9 | 2,7.10-9 | 2,4.10-9 | 1,9.10-9 |
| Ce‑141 | 32,5 d | F | 0,005 | 1,1.10-8 | 5,0.10-4 | 7,3.10-9 | 3,5.10-9 | 2,0.10-9 | 1,2.10-9 | 9,3.10-10 |
|  |  | M | 0,005 | 1,4.10-8 | 5,0.10-4 | 1,1.10-8 | 6,3.10-9 | 4,6.10-9 | 4,1.10-9 | 3,2.10-9 |
|  |  | S | 0,005 | 1,6.10-8 | 5,0.10-4 | 1,2.10-8 | 7,1.10-9 | 5,3.10-9 | 4,8.10-9 | 3,8.10-9 |
| Ce‑143 | 1,38 d | F | 0,005 | 3,6.10-9 | 5,0.10-4 | 2,3.10-9 | 1,0.10-9 | 6,2.10-10 | 3,3.10-10 | 2,7.10-10 |
|  |  | M | 0,005 | 5,6.10-9 | 5,0.10-4 | 3,9.10-9 | 1,9.10-9 | 1,3.10-9 | 9,3.10-10 | 7,5.10-10 |
|  |  | S | 0,005 | 5,9.10-9 | 5,0.10-4 | 4,1.10-9 | 2,1.10-9 | 1,4.10-9 | 1,0.10-9 | 8,3.10-10 |
| Ce‑144 | 284 d | F | 0,005 | 3,6.10-7 | 5,0.10-4 | 2,7.10-7 | 1,4.10-7 | 7,8.10-8 | 4,8.10-8 | 4,0.10-8 |
|  |  | M | 0,005 | 1,9.10-7 | 5,0.10-4 | 1,6.10-7 | 8,8.10-8 | 5,5.10-8 | 4,1.10-8 | 3,6.10-8 |
|  |  | S | 0,005 | 2,1.10-7 | 5,0.10-4 | 1,8.10-7 | 1,1.10-7 | 7,3.10-8 | 5,8.10-8 | 5,3.10-8 |
| **Prazeodým** | | | | | | | | | | |
| Pr‑136 | 0,218 h | M | 0,005 | 1,3.10-10 | 5,0.10-4 | 8,8.10-11 | 4,2.10-11 | 2,6.10-11 | 1,6.10-11 | 1,3.10-11 |
|  |  | S | 0,005 | 1,3.10-10 | 5,0.10-4 | 9,0.10-11 | 4,3.10-11 | 2,7.10-11 | 1,7.10-11 | 1,4.10-11 |
| Pr‑137 | 1,28 h | M | 0,005 | 1,8.10-10 | 5,0.10-4 | 1,3.10-10 | 6,1.10-11 | 3,9.10-11 | 2,4.10-11 | 2,0.10-11 |
|  |  | S | 0,005 | 1,9.10-10 | 5,0.10-4 | 1,3.10-10 | 6,4.10-11 | 4,0.10-11 | 2,5.10-11 | 2,1.10-11 |
| Pr‑138m | 2,10 h | M | 0,005 | 5,9.10-10 | 5,0.10-4 | 4,5.10-10 | 2,3.10-10 | 1,4.10-10 | 9,0.10-11 | 7,2.10-11 |
|  |  | S | 0,005 | 6,0.10-10 | 5,0.10-4 | 4,7.10-10 | 2,4.10-10 | 1,5.10-10 | 9,3.10-11 | 7,4.10-11 |
| Pr‑139 | 4,51 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 1,1.10-10 | 5,5.10-11 | 3,5.10-11 | 2,3.10-11 | 1,8.10-11 |
|  |  | S | 0,005 | 1,6.10-10 | 5,0.10-4 | 1,2.10-10 | 5,7.10-11 | 3,7.10-11 | 2,4.10-11 | 2,0.10-11 |
| Pr‑142 | 19,1 h | M | 0,005 | 5,3.10-9 | 5,0.10-4 | 3,5.10-9 | 1,6.10-9 | 1,0.10-9 | 6,2.10-10 | 5,2.10-10 |
|  |  | S | 0,005 | 5,5.10-9 | 5,0.10-4 | 3,7.10-9 | 1,7.10-9 | 1,1.10-9 | 6,6.10-10 | 5,5.10-10 |
| Pr‑142m | 0,243 h | M | 0,005 | 6,7.10-11 | 5,0.10-4 | 4,5.10-11 | 2,0.10-11 | 1,3.10-11 | 7,9.10-12 | 6,6.10-12 |
|  |  | S | 0,005 | 7,0.10-11 | 5,0.10-4 | 4,7.10-11 | 2,2.10-11 | 1,4.10-11 | 8,4.10-12 | 7,0.10-12 |
| Pr‑143 | 13,6 d | M | 0,005 | 1,2.10-8 | 5,0.10-4 | 8,4.10-9 | 4,6.10-9 | 3,2.10-9 | 2,7.10-9 | 2,2.10-9 |
|  |  | S | 0,005 | 1,3.10-8 | 5,0.10-4 | 9,2.10-9 | 5,1.10-9 | 3,6.10-9 | 3,0.10-9 | 2,4.10-9 |
| Pr‑144 | 0,288 h | M | 0,005 | 1,9.10-10 | 5,0.10-4 | 1,2.10-10 | 5,0.10-11 | 3,2.10-11 | 2,1.10-11 | 1,8.10-11 |
|  |  | S | 0,005 | 1,9.10-10 | 5,0.10-4 | 1,2.10-10 | 5,2.10-11 | 3,4.10-11 | 2,1.10-11 | 1,8.10-11 |
| Pr‑145 | 5,98 h | M | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,0.10-9 | 4,7.10-10 | 3,0.10-10 | 1,9.10-10 | 1,6.10-10 |
|  |  | S | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,1.10-9 | 4,9.10-10 | 3,2.10-10 | 2,0.10-10 | 1,7.10-10 |
| Pr‑147 | 0,227 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 1,0.10-10 | 4,8.10-11 | 3,1.10-11 | 2,1.10-11 | 1,8.10-11 |
|  |  | S | 0,005 | 1,6.10-10 | 5,0.10-4 | 1,1.10-10 | 5,0.10-11 | 3,3.10-11 | 2,2.10-11 | 1,8.10-11 |
| **Neodým** | | | | | | | | | | |
| Nd‑136 | 0,844 h | M | 0,005 | 4,6.10-10 | 5,0.10-4 | 3,2.10-10 | 1,6.10-10 | 9,8.10-11 | 6,3.10-11 | 5,1.10-11 |
|  |  | S | 0,005 | 4,8.10-10 | 5,0.10-4 | 3,3.10-10 | 1,6.10-10 | 1,0.10-10 | 6,6.10-11 | 5,4.10-11 |
| Nd‑138 | 5,04 h | M | 0,005 | 2,3.10-9 | 5,0.10-4 | 1,7.10-9 | 7,7.10-10 | 4,8.10-10 | 2,8.10-10 | 2,3.10-10 |
|  |  | S | 0,005 | 2,4.10-9 | 5,0.10-4 | 1,8.10-9 | 8,0.10-10 | 5,0.10-10 | 3,0.10-10 | 2,5.10-10 |
| Nd‑139 | 0,495 h | M | 0,005 | 9,0.10-11 | 5,0.10-4 | 6,2.10-11 | 3,0.10-11 | 1,9.10-11 | 1,2.10-11 | 9,9.10-12 |
|  |  | S | 0,005 | 9,4.10-11 | 5,0.10-4 | 6,4.10-11 | 3,1.10-11 | 2,0.10-11 | 1,3.10-11 | 1,0.10-11 |
| Nd‑139m | 5,50 h | M | 0,005 | 1,1.10-9 | 5,0.10-4 | 8,8.10-10 | 4,5.10-10 | 2,9.10-10 | 1,8.10-10 | 1,5.10-10 |
|  |  | S | 0,005 | 1,2.10-9 | 5,0.10-4 | 9,1.10-10 | 4,6.10-10 | 3,0.10-10 | 1,9.10-10 | 1,5.10-10 |
| Nd‑141 | 2,49 h | M | 0,005 | 4,1.10-11 | 5,0.10-4 | 3,1.10-11 | 1,5.10-11 | 9,6.10-12 | 6,0.10-12 | 4,8.10-12 |
|  |  | S | 0,005 | 4,3.10-11 | 5,0.10-4 | 3,2.10-11 | 1,6.10-11 | 1,0.10-11 | 6,2.10-12 | 5,0.10-12 |
| Nd‑147 | 11,0 d | M | 0,005 | 1,1.10-8 | 5,0.10-4 | 8,0.10-9 | 4,5.10-9 | 3,2.10-9 | 2,6.10-9 | 2,1.10-9 |
|  |  | S | 0,005 | 1,2.10-8 | 5,0.10-4 | 8,6.10-9 | 4,9.10-9 | 3,5.10-9 | 3,0.10-9 | 2,4.10-9 |
| Nd‑149 | 1,73 h | M | 0,005 | 6,8.10-10 | 5,0.10-4 | 4,6.10-10 | 2,2.10-10 | 1,5.10-10 | 1,0.10-10 | 8,4.10-11 |
|  |  | S | 0,005 | 7,1.10-10 | 5,0.10-4 | 4,8.10-10 | 2,3.10-10 | 1,5.10-10 | 1,1.10-10 | 8,9.10-11 |
| Nd‑151 | 0,207 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 9,9.10-11 | 4,6.10-11 | 3,0.10-11 | 2,0.10-11 | 1,7.10-11 |
|  |  | S | 0,005 | 1,5.10-10 | 5,0.10-4 | 1,0.10-10 | 4,8.10-11 | 3,1.10-11 | 2,1.10-11 | 1,7.10-11 |
| **Prométium** | | | | | | | | | | |
| Pm‑141 | 0,348 h | M | 0,005 | 1,4.10-10 | 5,0.10-4 | 9,4.10-11 | 4,3.10-11 | 2,7.10-11 | 1,7.10-11 | 1,4.10-11 |
|  |  | S | 0,005 | 1,5.10-10 | 5,0.10-4 | 9,7.10-11 | 4,4.10-11 | 2,8.10-11 | 1,8.10-11 | 1,5.10-11 |
| Pm‑143 | 265 d | M | 0,005 | 6,2.10-9 | 5,0.10-4 | 5,4.10-9 | 3,3.10-9 | 2,2.10-9 | 1,7.10-9 | 1,5.10-9 |
|  |  | S | 0,005 | 5,5.10-9 | 5,0.10-4 | 4,8.10-9 | 3,1.10-9 | 2,1.10-9 | 1,7.10-9 | 1,4.10-9 |
| Pm‑144 | 363 d | M | 0,005 | 3,1.10-8 | 5,0.10-4 | 2,8.10-8 | 1,8.10-8 | 1,2.10-8 | 9,3.10-9 | 8,2.10-9 |
|  |  | S | 0,005 | 2,6.10-8 | 5,0.10-4 | 2,4.10-8 | 1,6.10-8 | 1,1.10-8 | 8,9.10-9 | 7,5.10-9 |
| Pm‑145 | 17,7 r | M | 0,005 | 1,1.10-8 | 5,0.10-4 | 9,8.10-9 | 6,4.10-9 | 4,3.10-9 | 3,7.10-9 | 3,6.10-9 |
|  |  | S | 0,005 | 7,1.10-9 | 5,0.10-4 | 6,5.10-9 | 4,3.10-9 | 2,9.10-9 | 2,4.10-9 | 2,3.10-9 |
| Pm‑146 | 5,53 r | M | 0,005 | 6,4.10-8 | 5,0.10-4 | 5,9.10-8 | 3,9.10-8 | 2,6.10-8 | 2,2.10-8 | 2,1.10-8 |
|  |  | S | 0,005 | 5,3.10-8 | 5,0.10-4 | 4,9.10-8 | 3,3.10-8 | 2,2.10-8 | 1,9.10-8 | 1,7.10-8 |
| Pm‑147 | 2,62 r | M | 0,005 | 2,1.10-8 | 5,0.10-4 | 1,8.10-8 | 1,1.10-8 | 7,0.10-9 | 5,7.10-9 | 5,0.10-9 |
|  |  | S | 0,005 | 1,9.10-8 | 5,0.10-4 | 1,6.10-8 | 1,0.10-8 | 6,8.10-9 | 5,8.10-9 | 4,9.10-9 |
| Pm‑148 | 5,37 d | M | 0,005 | 1,5.10-8 | 5,0.10-4 | 1,0.10-8 | 5,2.10-9 | 3,4.10-9 | 2,4.10-9 | 2,0.10-9 |
|  |  | S | 0,005 | 1,5.10-8 | 5,0.10-4 | 1,1.10-8 | 5,5.10-9 | 3,7.10-9 | 2,6.10-9 | 2,2.10-9 |
| Pm‑148m | 41,3 d | M | 0,005 | 2,4.10-8 | 5,0.10-4 | 1,9.10-8 | 1,1.10-8 | 7,7.10-9 | 6,3.10-9 | 5,1.10-9 |
|  |  | S | 0,005 | 2,5.10-8 | 5,0.10-4 | 2,0.10-8 | 1,2.10-8 | 8,3.10-9 | 7,1.10-9 | 5,7.10-9 |
| Pm‑149 | 2,21 d | M | 0,005 | 5,0.10-9 | 5,0.10-4 | 3,5.10-9 | 1,7.10-9 | 1,1.10-9 | 8,3.10-10 | 6,7.10-10 |
|  |  | S | 0,005 | 5,3.10-9 | 5,0.10-4 | 3,6.10-9 | 1,8.10-9 | 1,2.10-9 | 9,0.10-10 | 7,3.10-10 |
| Pm‑150 | 2,68 h | M | 0,005 | 1,2.10-9 | 5,0.10-4 | 7,9.10-10 | 3,8.10-10 | 2,4.10-10 | 1,5.10-10 | 1,2.10-10 |
|  |  | S | 0,005 | 1,2.10-9 | 5,0.10-4 | 8,2.10-10 | 3,9.10-10 | 2,5.10-10 | 1,6.10-10 | 1,3.10-10 |
| Pm‑151 | 1,18 d | M | 0,005 | 3,3.10-9 | 5,0.10-4 | 2,5.10-9 | 1,2.10-9 | 8,3.10-10 | 5,3.10-10 | 4,3.10-10 |
|  |  | S | 0,005 | 3,4.10-9 | 5,0.10-4 | 2,6.10-9 | 1,3.10-9 | 7,9.10-10 | 5,7.10-10 | 4,6.10-10 |
| **Samárium** | | | | | | | | | | |
| Sm‑141 | 0,170 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 1,0.10-10 | 4,7.10-11 | 2,9.10-11 | 1,8.10-11 | 1,5.10-11 |
| Sm‑141m | 0,377 h | M | 0,005 | 3,0.10-10 | 5,0.10-4 | 2,1.10-10 | 9,7.10-11 | 6,1.10-11 | 3,9.10-11 | 3,2.10-11 |
| Sm‑142 | 1,21 h | M | 0,005 | 7,5.10-10 | 5,0.10-4 | 4,8.10-10 | 2,2.10-10 | 1,4.10-10 | 8,5.10-11 | 7,1.10-11 |
| Sm‑145 | 340 d | M | 0,005 | 8,1.10-9 | 5,0.10-4 | 6,8.10-9 | 4,0.10-9 | 2,5.10-9 | 1,9.10-9 | 1,6.10-9 |
| Sm‑146 | 1,03.108 r | M | 0,005 | 2,7.10-5 | 5,0.10-4 | 2,6.10-5 | 1,7.10-5 | 1,2.10-5 | 1,1.10-5 | 1,1.10-5 |
| Sm‑147 | 1,06.1011 r | M | 0,005 | 2,5.10-5 | 5,0.10-4 | 2,3.10-5 | 1,6.10-5 | 1,1.10-5 | 9,6.10-6 | 9,6.10-6 |
| Sm‑151 | 90,0 r | M | 0,005 | 1,1.10-8 | 5,0.10-4 | 1,0.10-8 | 6,7.10-9 | 4,5.10-9 | 4,0.10-9 | 4,0.10-9 |
| Sm‑153 | 1,95 d | M | 0,005 | 4,2.10-9 | 5,0.10-4 | 2,9.10-9 | 1,5.10-9 | 1,0.10-9 | 7,9.10-10 | 6,3.10-10 |
| Sm‑155 | 0,368 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 9,9.10-11 | 4,4.10-11 | 2,9.10-11 | 2,0.10-11 | 1,7.10-11 |
| Sm‑156 | 9,40 h | M | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,1.10-9 | 5,8.10-10 | 3,5.10-10 | 2,7.10-10 | 2,2.10-10 |
| **Európium** | | | | | | | | | | |
| Eu‑145 | 5,94 d | M | 0,005 | 3,6.10-9 | 5,0.10-4 | 2,9.10-9 | 1,6.10-9 | 1,0.10-9 | 6,8.10-10 | 5,5.10-10 |
| Eu‑146 | 4,61 d | M | 0,005 | 5,5.10-9 | 5,0.10-4 | 4,4.10-9 | 2,4.10-9 | 1,5.10-9 | 1,0.10-9 | 8,0.10-10 |
| Eu‑147 | 24,0 d | M | 0,005 | 4,9.10-9 | 5,0.10-4 | 3,7.10-9 | 2,2.10-9 | 1,6.10-9 | 1,3.10-9 | 1,1.10-9 |
| Eu‑148 | 54,5 d | M | 0,005 | 1,4.10-8 | 5,0.10-4 | 1,2.10-8 | 6,8.10-9 | 4,6.10-9 | 3,2.10-9 | 2,6.10-9 |
| Eu‑149 | 93,1 d | M | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,3.10-9 | 7,3.10-10 | 4,7.10-10 | 3,5.10-10 | 2,9.10-10 |
| Eu‑150 | 34,2 r | M | 0,005 | 1,1.10-7 | 5,0.10-4 | 1,1.10-7 | 7,8.10-8 | 5,7.10-8 | 5,3.10-8 | 5,3.10-8 |
| Eu‑150 | 12,6 h | M | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,1.10-9 | 5,2.10-10 | 3,4.10-10 | 2,3.10-10 | 1,9.10-10 |
| Eu‑152 | 13,3 r | M | 0,005 | 1,1.10-7 | 5,0.10-4 | 1,0.10-7 | 7,0.10-8 | 4,9.10-8 | 4,3.10-8 | 4,2.10-8 |
| Eu‑152m | 9,32 h | M | 0,005 | 1,9.10-9 | 5,0.10-4 | 1,3.10-9 | 6,6.10-10 | 4,2.10-10 | 2,4.10-10 | 2,2.10-10 |
| Eu‑154 | 8,80 r | M | 0,005 | 1,6.10-7 | 5,0.10-4 | 1,5.10-7 | 9,7.10-8 | 6,5.10-8 | 5,6.10-8 | 5,3.10-8 |
| Eu‑155 | 4,96 r | M | 0,005 | 2,6.10-8 | 5,0.10-4 | 2,3.10-8 | 1,4.10-8 | 9,2.10-9 | 7,6.10-9 | 6,9.10-9 |
| Eu‑156 | 15,2 d | M | 0,005 | 1,9.10-8 | 5,0.10-4 | 1,4.10-8 | 7,7.10-9 | 5,3.10-9 | 4,2.10-9 | 3,4.10-9 |
| Eu‑157 | 15,1 h | M | 0,005 | 2,5.10-9 | 5,0.10-4 | 1,9.10-9 | 8,9.10-10 | 5,9.10-10 | 3,5.10-10 | 2,8.10-10 |
| Eu‑158 | 0,765 h | M | 0,005 | 4,3.10-10 | 5,0.10-4 | 2,9.10-10 | 1,3.10-10 | 8,5.10-11 | 5,6.10-11 | 4,7.10-11 |
| **Gadolínium** | | | | | | | | | | |
| Gd‑145 | 0,382 h | F | 0,005 | 1,3.10-10 | 5,0.10-4 | 9,6.10-11 | 4,7.10-11 | 2,9.10-11 | 1,7.10-11 | 1,4.10-11 |
|  |  | M | 0,005 | 1,8.10-10 | 5,0.10-4 | 1,3.10-10 | 6,2.10-11 | 3,9.10-11 | 2,4.10-11 | 2,0.10-11 |
| Gd‑146 | 48,3 d | F | 0,005 | 2,9.10-8 | 5,0.10-4 | 2,3.10-8 | 1,2.10-8 | 7,8.10-9 | 5,1.10-9 | 4,4.10-9 |
|  |  | M | 0,005 | 2,8.10-8 | 5,0.10-4 | 2,2.10-8 | 1,3.10-8 | 9,3.10-9 | 7,9.10-9 | 6,4.10-9 |
| Gd‑147 | 1,59 d | F | 0,005 | 2,1.10-9 | 5,0.10-4 | 1,7.10-9 | 8,4.10-10 | 5,3.10-10 | 3,1.10-10 | 2,6.10-10 |
|  |  | M | 0,005 | 2,8.10-9 | 5,0.10-4 | 2,2.10-9 | 1,1.10-9 | 7,5.10-10 | 5,1.10-10 | 4,0.10-10 |
| Gd‑148 | 93,0 r | F | 0,005 | 8,3.10-5 | 5,0.10-4 | 7,6.10-5 | 4,7.10-5 | 3,2.10-5 | 2,6.10-5 | 2,6.10-5 |
|  |  | M | 0,005 | 3,2.10-5 | 5,0.10-4 | 2,9.10-5 | 1,9.10-5 | 1,3.10-5 | 1,2.10-5 | 1,1.10-5 |
| Gd‑149 | 9,40 d | F | 0,005 | 2,6.10-9 | 5,0.10-4 | 2,0.10-9 | 8,0.10-10 | 5,1.10-10 | 3,1.10-10 | 2,6.10-10 |
|  |  | M | 0,005 | 3,6.10-9 | 5,0.10-4 | 3,0.10-9 | 1,5.10-9 | 1,1.10-9 | 9,2.10-10 | 7,3.10-10 |
| Gd‑151 | 120 d | F | 0,005 | 6,3.10-9 | 5,0.10-4 | 4,9.10-9 | 2,5.10-9 | 1,5.10-9 | 9,2.10-10 | 7,8.10-10 |
|  |  | M | 0,005 | 4,5.10-9 | 5,0.10-4 | 3,5.10-9 | 2,0.10-9 | 1,3.10-9 | 1,0.10-9 | 8,6.10-10 |
| Gd‑152 | 1,08.1014 r | F | 0,005 | 5,9.10-5 | 5,0.10-4 | 5,4.10-5 | 3,4.10-5 | 2,4.10-5 | 1,9.10-5 | 1,9.10-5 |
|  |  | M | 0,005 | 2,1.10-5 | 5,0.10-4 | 1,9.10-5 | 1,3.10-5 | 8,9.10-6 | 7,9.10-6 | 8,0.10-6 |
| Gd‑153 | 242 d | F | 0,005 | 1,5.10-8 | 5,0.10-4 | 1,2.10-8 | 6,5.10-9 | 3,9.10-9 | 2,4.10-9 | 2,1.10-9 |
|  |  | M | 0,005 | 9,9.10-9 | 5,0.10-4 | 7,9.10-9 | 4,8.10-9 | 3,1.10-9 | 2,5.10-9 | 2,1.10-9 |
| Gd‑159 | 18,6 h | F | 0,005 | 1,2.10-9 | 5,0.10-4 | 8,9.10-10 | 3,8.10-10 | 2,3.10-10 | 1,2.10-10 | 1,0.10-10 |
|  |  | M | 0,005 | 2,2.10-9 | 5,0.10-4 | 1,5.10-9 | 7,3.10-10 | 4,9.10-10 | 3,4.10-10 | 2,7.10-10 |
| **Terbium** | | | | | | | | | | |
| Tb‑147 | 1,65 h | M | 0,005 | 6,7.10-10 | 5,0.10-4 | 4,8.10-10 | 2,3.10-10 | 1,5.10-10 | 9,3.10-11 | 7,6.10-11 |
| Tb‑149 | 4,15 h | M | 0,005 | 2,1.10-8 | 5,0.10-4 | 1,5.10-8 | 9,6.10-9 | 6,6.10-9 | 5,8.10-9 | 4,9.10-9 |
| Tb‑150 | 3,27 h | M | 0,005 | 1,0.10-9 | 5,0.10-4 | 7,4.10-10 | 3,5.10-10 | 2,2.10-10 | 1,3.10-10 | 1,1.10-10 |
| Tb‑151 | 17,6 h | M | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,2.10-9 | 6,3.10-10 | 4,2.10-10 | 2,8.10-10 | 2,3.10-10 |
| Tb‑153 | 2,34 d | M | 0,005 | 1,4.10-9 | 5,0.10-4 | 1,0.10-9 | 5,4.10-10 | 3,6.10-10 | 2,3.10-10 | 1,9.10-10 |
| Tb‑154 | 21,4 h | M | 0,005 | 2,7.10-9 | 5,0.10-4 | 2,1.10-9 | 1,1.10-9 | 7,1.10-10 | 4,5.10-10 | 3,6.10-10 |
| Tb‑155 | 5,32 d | M | 0,005 | 1,4.10-9 | 5,0.10-4 | 1,0.10-9 | 5,6.10-10 | 3,4.10-10 | 2,7.10-10 | 2,2.10-10 |
| Tb‑156 | 5,34 d | M | 0,005 | 7,0.10-9 | 5,0.10-4 | 5,4.10-9 | 3,0.10-9 | 2,0.10-9 | 1,5.10-9 | 1,2.10-9 |
| Tb‑156m | 1,02 d | M | 0,005 | 1,1.10-9 | 5,0.10-4 | 9,4.10-10 | 4,7.10-10 | 3,3.10-10 | 2,7.10-10 | 2,1.10-10 |
| Tb‑156m | 5,00 h | M | 0,005 | 6,2.10-10 | 5,0.10-4 | 4,5.10-10 | 2,4.10-10 | 1,7.10-10 | 1,2.10-10 | 9,6.10-11 |
| Tb‑157 | 1,50.102 r | M | 0,005 | 3,2.10-9 | 5,0.10-4 | 3,0.10-9 | 2,0.10-9 | 1,4.10-9 | 1,2.10-9 | 1,2.10-9 |
| Tb‑158 | 1,50.102 r | M | 0,005 | 1,1.10-7 | 5,0.10-4 | 1,0.10-7 | 7,0.10-8 | 5,1.10-8 | 4,7.10-8 | 4,6.10-8 |
| Tb‑160 | 72,3 d | M | 0,005 | 3,2.10-8 | 5,0.10-4 | 2,5.10-8 | 1,5.10-8 | 1,0.10-8 | 8,6.10-9 | 7,0.10-9 |
| Tb‑161 | 6,91 d | M | 0,005 | 6,6.10-9 | 5,0.10-4 | 4,7.10-9 | 2,6.10-9 | 1,9.10-9 | 1,6.10-9 | 1,3.10-9 |
| **Dysprózium** | | | | | | | | | | |
| Dy‑155 | 10,0 h | M | 0,005 | 5,6.10-10 | 5,0.10-4 | 4,4.10-10 | 2,3.10-10 | 1,5.10-10 | 9,6.10-11 | 7,7.10-11 |
| Dy‑157 | 8,10 h | M | 0,005 | 2,4.10-10 | 5,0.10-4 | 1,9.10-10 | 9,9.10-11 | 6,2.10-11 | 3,8.10-11 | 3,0.10-11 |
| Dy‑159 | 144 d | M | 0,005 | 2,1.10-9 | 5,0.10-4 | 1,7.10-9 | 9,6.10-10 | 6,0.10-10 | 4,4.10-10 | 3,7.10-10 |
| Dy‑165 | 2,33 h | M | 0,005 | 5,2.10-10 | 5,0.10-4 | 3,4.10-10 | 1,6.10-10 | 1,1.10-10 | 7,2.10-11 | 6,0.10-11 |
| Dy‑166 | 3,40 d | M | 0,005 | 1,2.10-8 | 5,0.10-4 | 8,3.10-9 | 4,4.10-9 | 3,0.10-9 | 2,3.10-9 | 1,9.10-9 |
| **Holmium** | | | | | | | | | | |
| Ho‑155 | 0,800 h | M | 0,005 | 1,7.10-10 | 5,0.10-4 | 1,2.10-10 | 5,8.10-11 | 3,7.10-11 | 2,4.10-11 | 2,0.10-11 |
| Ho‑157 | 0,210 h | M | 0,005 | 3,4.10-11 | 5,0.10-4 | 2,5.10-11 | 1,3.10-11 | 8,0.10-12 | 5,1.10-12 | 4,2.10-12 |
| Ho‑159 | 0,550 h | M | 0,005 | 4,6.10-11 | 5,0.10-4 | 3,3.10-11 | 1,7.10-11 | 1,1.10-11 | 7,5.10-12 | 6,1.10-12 |
| Ho‑161 | 2,50 h | M | 0,005 | 5,7.10-11 | 5,0.10-4 | 4,0.10-11 | 2,0.10-11 | 1,2.10-11 | 7,5.10-12 | 6,0.10-12 |
| Ho‑162 | 0,250 h | M | 0,005 | 2,1.10-11 | 5,0.10-4 | 1,5.10-11 | 7,2.10-12 | 4,8.10-12 | 3,4.10-12 | 2,8.10-12 |
| Ho‑162m | 1,13 h | M | 0,005 | 1,5.10-10 | 5,0.10-4 | 1,1.10-10 | 5,8.10-11 | 3,8.10-11 | 2,6.10-11 | 2,1.10-11 |
| Ho‑164 | 0,483 h | M | 0,005 | 6,8.10-11 | 5,0.10-4 | 4,5.10-11 | 2,1.10-11 | 1,4.10-11 | 9,9.10-12 | 8,4.10-12 |
| Ho‑164m | 0,625 h | M | 0,005 | 9,1.10-11 | 5,0.10-4 | 5,9.10-11 | 3,0.10-11 | 2,0.10-11 | 1,3.10-11 | 1,2.10-11 |
| Ho‑166 | 1,12 d | M | 0,005 | 6,0.10-9 | 5,0.10-4 | 4,0.10-9 | 1,9.10-9 | 1,2.10-9 | 7,9.10-10 | 6,5.10-10 |
| Ho‑166m | 1,20.103 r | M | 0,005 | 2,6.10-7 | 5,0.10-4 | 2,5.10-7 | 1,8.10-7 | 1,3.10-7 | 1,2.10-7 | 1,2.10-7 |
| Ho‑167 | 3,10 h | M | 0,005 | 5,2.10-10 | 5,0.10-4 | 3,6.10-10 | 1,8.10-10 | 1,2.10-10 | 8,7.10-11 | 7,1.10-11 |
| **Erbium** | | | | | | | | | | |
| Er‑161 | 3,24 h | M | 0,005 | 3,8.10-10 | 5,0.10-4 | 2,9.10-10 | 1,5.10-10 | 9,5.10-11 | 6,0.10-11 | 4,8.10-11 |
| Er‑165 | 10,4 h | M | 0,005 | 7,2.10-11 | 5,0.10-4 | 5,3.10-11 | 2,6.10-11 | 1,6.10-11 | 9,6.10-12 | 7,9.10-12 |
| Er‑169 | 9,30 d | M | 0,005 | 4,7.10-9 | 5,0.10-4 | 3,5.10-9 | 2,0.10-9 | 1,5.10-9 | 1,3.10-9 | 1,0.10-9 |
| Er‑171 | 7,52 h | M | 0,005 | 1,8.10-9 | 5,0.10-4 | 1,2.10-9 | 5,9.10-10 | 3,9.10-10 | 2,7.10-10 | 2,2.10-10 |
| Er‑172 | 2,05 d | M | 0,005 | 6,6.10-9 | 5,0.10-4 | 4,7.10-9 | 2,5.10-9 | 1,7.10-9 | 1,4.10-9 | 1,1.10-9 |
| **Túlium** | | | | | | | | | | |
| Tm‑162 | 0,362 h | M | 0,005 | 1,3.10-10 | 5,0.10-4 | 9,6.10-11 | 4,7.10-11 | 3,0.10-11 | 1,9.10-11 | 1,6.10-11 |
| Tm‑166 | 7,70 h | M | 0,005 | 1,3.10-9 | 5,0.10-4 | 9,9.10-10 | 5,2.10-10 | 3,3.10-10 | 2,2.10-10 | 1,7.10-10 |
| Tm‑167 | 9,24 d | M | 0,005 | 5,6.10-9 | 5,0.10-4 | 4,1.10-9 | 2,3.10-9 | 1,7.10-9 | 1,4.10-9 | 1,1.10-9 |
| Tm‑170 | 129 d | M | 0,005 | 3,6.10-8 | 5,0.10-4 | 2,8.10-8 | 1,6.10-8 | 1,1.10-8 | 8,5.10-9 | 7,0.10-9 |
| Tm‑171 | 1,92 r | M | 0,005 | 6,8.10-9 | 5,0.10-4 | 5,7.10-9 | 3,4.10-9 | 2,0.10-9 | 1,6.10-9 | 1,4.10-9 |
| Tm‑172 | 2,65 d | M | 0,005 | 8,4.10-9 | 5,0.10-4 | 5,8.10-9 | 2,9.10-9 | 1,9.10-9 | 1,4.10-9 | 1,1.10-9 |
| Tm‑173 | 8,24 h | M | 0,005 | 1,5.10-9 | 5,0.10-4 | 1,0.10-9 | 5,0.10-10 | 3,3.10-10 | 2,2.10-10 | 1,8.10-10 |
| Tm‑175 | 0,253 h | M | 0,005 | 1,6.10-10 | 5,0.10-4 | 1,1.10-10 | 5,0.10-11 | 3,3.10-11 | 2,2.10-11 | 1,8.10-11 |
| **Yterbium** | | | | | | | | | | |
| Yb‑162 | 0,315 h | M | 0,005 | 1,1.10-10 | 5,0.10-4 | 7,9.10-11 | 3,9.10-11 | 2,5.10-11 | 1,6.10-11 | 1,3.10-11 |
|  |  | S | 0,005 | 1,2.10-10 | 5,0.10-4 | 8,2.10-11 | 4,0.10-11 | 2,6.10-11 | 1,7.10-11 | 1,4.10-11 |
| Yb‑166 | 2,36 d | M | 0,005 | 4,7.10-9 | 5,0.10-4 | 3,5.10-9 | 1,9.10-9 | 1,3.10-9 | 9,0.10-10 | 7,2.10-10 |
|  |  | S | 0,005 | 4,9.10-9 | 5,0.10-4 | 3,7.10-9 | 2,0.10-9 | 1,3.10-9 | 9,6.10-10 | 7,7.10-10 |
| Yb‑167 | 0,292 h | M | 0,005 | 4,4.10-11 | 5,0.10-4 | 3,1.10-11 | 1,6.10-11 | 1,1.10-11 | 7,9.10-12 | 6,5.10-12 |
|  |  | S | 0,005 | 4,6.10-11 | 5,0.10-4 | 3,2.10-11 | 1,7.10-11 | 1,1.10-11 | 8,4.10-12 | 6,9.10-12 |
| Yb‑169 | 32,0 d | M | 0,005 | 1,2.10-8 | 5,0.10-4 | 8,7.10-9 | 5,1.10-9 | 3,7.10-9 | 3,2.10-9 | 2,5.10-9 |
|  |  | S | 0,005 | 1,3.10-8 | 5,0.10-4 | 9,8.10-9 | 5,9.10-9 | 4,2.10-9 | 3,7.10-9 | 3,0.10-9 |
| Yb‑175 | 4,19 d | M | 0,005 | 3,5.10-9 | 5,0.10-4 | 2,5.10-9 | 1,4.10-9 | 9,8.10-10 | 8,3.10-10 | 6,5.10-10 |
|  |  | S | 0,005 | 3,7.10-9 | 5,0.10-4 | 2,7.10-9 | 1,5.10-9 | 1,1.10-9 | 9,2.10-10 | 7,3.10-10 |
| Yb‑177 | 1,90 h | M | 0,005 | 5,0.10-10 | 5,0.10-4 | 3,3.10-10 | 1,6.10-10 | 1,1.10-10 | 7,8.10-11 | 6,4.10-11 |
|  |  | S | 0,005 | 5,3.10-10 | 5,0.10-4 | 3,5.10-10 | 1,7.10-10 | 1,2.10-10 | 8,4.10-11 | 6,9.10-11 |
| Yb‑178 | 1,23 h | M | 0,005 | 5,9.10-10 | 5,0.10-4 | 3,9.10-10 | 1,8.10-10 | 1,2.10-10 | 8,5.10-11 | 7,0.10-11 |
|  |  | S | 0,005 | 6,2.10-10 | 5,0.10-4 | 4,1.10-10 | 1,9.10-10 | 1,3.10-10 | 9,1.10-11 | 7,5.10-11 |
| **Lutécium** | | | | | | | | | | |
| Lu‑169 | 1,42 d | M | 0,005 | 2,3.10-9 | 5,0.10-4 | 1,8.10-9 | 9,5.10-10 | 6,3.10-10 | 4,4.10-10 | 3,5.10-10 |
|  |  | S | 0,005 | 2,4.10-9 | 5,0.10-4 | 1,9.10-9 | 1,0.10-9 | 6,7.10-10 | 4,8.10-10 | 3,8.10-10 |
| Lu‑170 | 2,00 d | M | 0,005 | 4,3.10-9 | 5,0.10-4 | 3,4.10-9 | 1,8.10-9 | 1,2.10-9 | 7,8.10-10 | 6,3.10-10 |
|  |  | S | 0,005 | 4,5.10-9 | 5,0.10-4 | 3,5.10-9 | 1,8.10-9 | 1,2.10-9 | 8,2.10-10 | 6,6.10-10 |
| Lu‑171 | 8,22 d | M | 0,005 | 5,0.10-9 | 5,0.10-4 | 3,7.10-9 | 2,1.10-9 | 1,2.10-9 | 9,8.10-10 | 8,0.10-10 |
|  |  | S | 0,005 | 4,7.10-9 | 5,0.10-4 | 3,9.10-9 | 2,0.10-9 | 1,4.10-9 | 1,1.10-9 | 8,8.10-10 |
| Lu‑172 | 6,70 d | M | 0,005 | 8,7.10-9 | 5,0.10-4 | 6,7.10-9 | 3,8.10-9 | 2,6.10-9 | 1,8.10-9 | 1,4.10-9 |
|  |  | S | 0,005 | 9,3.10-9 | 5,0.10-4 | 7,1.10-9 | 4,0.10-9 | 2,8.10-9 | 2,0.10-9 | 1,6.10-9 |
| Lu‑173 | 1,37 r | M | 0,005 | 1,0.10-8 | 5,0.10-4 | 8,5.10-9 | 5,1.10-9 | 3,2.10-9 | 2,5.10-9 | 2,2.10-9 |
|  |  | S | 0,005 | 1,0.10-8 | 5,0.10-4 | 8,7.10-9 | 5,4.10-9 | 3,6.10-9 | 2,9.10-9 | 2,4.10-9 |
| Lu‑174 | 3,31 r | M | 0,005 | 1,7.10-8 | 5,0.10-4 | 1,5.10-8 | 9,1.10-9 | 5,8.10-9 | 4,7.10-9 | 4,2.10-9 |
|  |  | S | 0,005 | 1,6.10-8 | 5,0.10-4 | 1,4.10-8 | 8,9.10-9 | 5,9.10-9 | 4,9.10-9 | 4,2.10-9 |
| Lu‑174m | 142 d | M | 0,005 | 1,9.10-8 | 5,0.10-4 | 1,4.10-8 | 8,6.10-9 | 5,4.10-9 | 4,3.10-9 | 3,7.10-9 |
|  |  | S | 0,005 | 2,0.10-8 | 5,0.10-4 | 1,5.10-8 | 9,2.10-9 | 6,1.10-9 | 5,0.10-9 | 4,2.10-9 |
| Lu‑176 | 3,60.1010 r | M | 0,005 | 1,8.10-7 | 5,0.10-4 | 1,7.10-7 | 1,1.10-7 | 7,8.10-8 | 7,1.10-8 | 7,0.10-8 |
|  |  | S | 0,005 | 1,5.10-7 | 5,0.10-4 | 1,4.10-7 | 9,4.10-8 | 6,5.10-8 | 5,9.10-8 | 5,6.10-8 |
| Lu‑176m | 3,68 h | M | 0,005 | 8,9.10-10 | 5,0.10-4 | 5,9.10-10 | 2,8.10-10 | 1,9.10-10 | 1,2.10-10 | 1,1.10-10 |
|  |  | S | 0,005 | 9,3.10-10 | 5,0.10-4 | 6,2.10-10 | 3,0.10-10 | 2,0.10-10 | 1,2.10-10 | 1,2.10-10 |
| Lu‑177 | 6,71 d | M | 0,005 | 5,3.10-9 | 5,0.10-4 | 3,8.10-9 | 2,2.10-9 | 1,6.10-9 | 1,4.10-9 | 1,1.10-9 |
|  |  | S | 0,005 | 5,7.10-9 | 5,0.10-4 | 4,1.10-9 | 2,4.10-9 | 1,7.10-9 | 1,5.10-9 | 1,2.10-9 |
| Lu‑177m | 161 d | M | 0,005 | 5,8.10-8 | 5,0.10-4 | 4,6.10-8 | 2,8.10-8 | 1,9.10-8 | 1,6.10-8 | 1,3.10-8 |
|  |  | S | 0,005 | 6,5.10-8 | 5,0.10-4 | 5,3.10-8 | 3,2.10-8 | 2,3.10-8 | 2,0.10-8 | 1,6.10-8 |
| Lu‑178 | 0,473 h | M | 0,005 | 2,3.10-10 | 5,0.10-4 | 1,5.10-10 | 6,6.10-11 | 4,3.10-11 | 2,9.10-11 | 2,4.10-11 |
|  |  | S | 0,005 | 2,4.10-10 | 5,0.10-4 | 1,5.10-10 | 6,9.10-11 | 4,5.10-11 | 3,0.10-11 | 2,6.10-11 |
| Lu‑178m | 0,378 h | M | 0,005 | 2,6.10-10 | 5,0.10-4 | 1,8.10-10 | 8,3.10-11 | 5,6.10-11 | 3,8.10-11 | 3,2.10-11 |
|  |  | S | 0,005 | 2,7.10-10 | 5,0.10-4 | 1,9.10-10 | 8,7.10-11 | 5,8.10-11 | 4,0.10-11 | 3,3.10-11 |
| Lu‑179 | 4,59 h | M | 0,005 | 9,9.10-10 | 5,0.10-4 | 6,5.10-10 | 3,0.10-10 | 2,0.10-10 | 1,2.10-10 | 1,1.10-10 |
|  |  | S | 0,005 | 1,0.10-9 | 5,0.10-4 | 6,8.10-10 | 3,2.10-10 | 2,1.10-10 | 1,3.10-10 | 1,2.10-10 |
| **Hafnium** | | | | | | | | | | |
| Hf‑170 | 16,0 h | F | 0,020 | 1,4.10-9 | 0,002 | 1,1.10-9 | 5,4.10-10 | 3,4.10-10 | 2,0.10-10 | 1,6.10-10 |
|  |  | M | 0,020 | 2,2.10-9 | 0,002 | 1,7.10-9 | 8,7.10-10 | 5,8.10-10 | 3,9.10-10 | 3,2.10-10 |
| Hf‑172 | 1,87 r | F | 0,020 | 1,5.10-7 | 0,002 | 1,3.10-7 | 7,8.10-8 | 4,9.10-8 | 3,5.10-8 | 3,2.10-8 |
|  |  | M | 0,020 | 8,1.10-8 | 0,002 | 6,9.10-8 | 4,3.10-8 | 2,8.10-8 | 2,3.10-8 | 2,0.10-8 |
| Hf‑173 | 24,0 h | F | 0,020 | 6,6.10-10 | 0,002 | 5,0.10-10 | 2,5.10-10 | 1,5.10-10 | 8,9.10-11 | 7,4.10-11 |
|  |  | M | 0,020 | 1,1.10-9 | 0,002 | 8,2.10-10 | 4,3.10-10 | 2,9.10-10 | 2,0.10-10 | 1,6.10-10 |
| Hf‑175 | 70,0 d | F | 0,020 | 5,4.10-9 | 0,002 | 4,0.10-9 | 2,1.10-9 | 1,3.10-9 | 8,5.10-10 | 7,2.10-10 |
|  |  | M | 0,020 | 5,8.10-9 | 0,002 | 4,5.10-9 | 2,6.10-9 | 1,8.10-9 | 1,4.10-9 | 1,2.10-9 |
| Hf‑177m | 0,856 h | F | 0,020 | 3,9.10-10 | 0,002 | 2,8.10-10 | 1,3.10-10 | 8,5.10-11 | 5,2.10-11 | 4,4.10-11 |
|  |  | M | 0,020 | 6,5.10-10 | 0,002 | 4,7.10-10 | 2,3.10-10 | 1,5.10-10 | 1,1.10-10 | 9,0.10-11 |
| Hf‑178m | 31,0 r | F | 0,020 | 6,2.10-7 | 0,002 | 5,8.10-7 | 4,0.10-7 | 3,1.10-7 | 2,7.10-7 | 2,6.10-7 |
|  |  | M | 0,020 | 2,6.10-7 | 0,002 | 2,4.10-7 | 1,7.10-7 | 1,3.10-7 | 1,2.10-7 | 1,2.10-7 |
| Hf‑179m | 25,1 d | F | 0,020 | 9,7.10-9 | 0,002 | 6,8.10-9 | 3,4.10-9 | 2,1.10-9 | 1,2.10-9 | 1,1.10-9 |
|  |  | M | 0,020 | 1,7.10-8 | 0,002 | 1,3.10-8 | 7,6.10-9 | 5,5.10-9 | 4,8.10-9 | 3,8.10-9 |
| Hf‑180m | 5,50 h | F | 0,020 | 5,4.10-10 | 0,002 | 4,1.10-10 | 2,0.10-10 | 1,3.10-10 | 7,2.10-11 | 5,9.10-11 |
|  |  | M | 0,020 | 9,1.10-10 | 0,002 | 6,8.10-10 | 3,6.10-10 | 2,4.10-10 | 1,7.10-10 | 1,3.10-10 |
| Hf‑181 | 42,4 d | F | 0,020 | 1,3.10-8 | 0,002 | 9,6.10-9 | 4,8.10-9 | 2,8.10-9 | 1,7.10-9 | 1,4.10-9 |
|  |  | M | 0,020 | 2,2.10-8 | 0,002 | 1,7.10-8 | 9,9.10-9 | 7,1.10-9 | 6,3.10-9 | 5,0.10-9 |
| Hf‑182 | 9,00.106 r | F | 0,020 | 6,5.10-7 | 0,002 | 6,2.10-7 | 4,4.10-7 | 3,6.10-7 | 3,1.10-7 | 3,1.10-7 |
|  |  | M | 0,020 | 2,4.10-7 | 0,002 | 2,3.10-7 | 1,7.10-7 | 1,3.10-7 | 1,3.10-7 | 1,3.10-7 |
| Hf‑182m | 1,02 h | F | 0,020 | 1,9.10-10 | 0,002 | 1,4.10-10 | 6,6.10-11 | 4,2.10-11 | 2,6.10-11 | 2,1.10-11 |
|  |  | M | 0,020 | 3,2.10-10 | 0,002 | 2,3.10-10 | 1,2.10-10 | 7,8.10-11 | 5,6.10-11 | 4,6.10-11 |
| Hf‑183 | 1,07 h | F | 0,020 | 2,5.10-10 | 0,002 | 1,7.10-10 | 7,9.10-11 | 4,9.10-11 | 2,8.10-11 | 2,4.10-11 |
|  |  | M | 0,020 | 4,4.10-10 | 0,002 | 3,0.10-10 | 1,5.10-10 | 9,8.10-11 | 7,0.10-11 | 5,7.10-11 |
| Hf‑184 | 4,12 h | F | 0,020 | 1,4.10-9 | 0,002 | 9,6.10-10 | 4,3.10-10 | 2,7.10-10 | 1,4.10-10 | 1,2.10-10 |
|  |  | M | 0,020 | 2,6.10-9 | 0,002 | 1,8.10-9 | 8,9.10-10 | 5,9.10-10 | 4,0.10-10 | 3,3.10-10 |
| **Tantal** | | | | | | | | | | |
| Ta‑172 | 0,613 h | M | 0,010 | 2,8.10-10 | 0,001 | 1,9.10-10 | 9,3.10-11 | 6,0.10-11 | 4,0.10-11 | 3,3.10-11 |
|  |  | S | 0,010 | 2,9.10-10 | 0,001 | 2,0.10-10 | 9,8.10-11 | 6,3.10-11 | 4,2.10-11 | 3,5.10-11 |
| Ta‑173 | 3,65 h | M | 0,010 | 8,8.10-10 | 0,001 | 6,2.10-10 | 3,0.10-10 | 2,0.10-10 | 1,3.10-10 | 1,1.10-10 |
|  |  | S | 0,010 | 9,2.10-10 | 0,001 | 6,5.10-10 | 3,2.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
| Ta‑174 | 1,20 h | M | 0,010 | 3,2.10-10 | 0,001 | 2,2.10-10 | 1,1.10-10 | 7,1.10-11 | 5,0.10-11 | 4,1.10-11 |
|  |  | S | 0,010 | 3,4.10-10 | 0,001 | 2,3.10-10 | 1,1.10-10 | 7,5.10-11 | 5,3.10-11 | 4,3.10-11 |
| Ta‑175 | 10,5 h | M | 0,010 | 9,1.10-10 | 0,001 | 7,0.10-10 | 3,7.10-10 | 2,4.10-10 | 1,5.10-10 | 1,2.10-10 |
|  |  | S | 0,010 | 9,5.10-10 | 0,001 | 7,3.10-10 | 3,8.10-10 | 2,5.10-10 | 1,6.10-10 | 1,3.10-10 |
| Ta‑176 | 8,08 h | M | 0,010 | 1,4.10-9 | 0,001 | 1,1.10-9 | 5,7.10-10 | 3,7.10-10 | 2,4.10-10 | 1,9.10-10 |
|  |  | S | 0,010 | 1,4.10-9 | 0,001 | 1,1.10-9 | 5,9.10-10 | 3,8.10-10 | 2,5.10-10 | 2,0.10-10 |
| Ta‑177 | 2,36 d | M | 0,010 | 6,5.10-10 | 0,001 | 4,7.10-10 | 2,5.10-10 | 1,5.10-10 | 1,2.10-10 | 9,6.10-11 |
|  |  | S | 0,010 | 6,9.10-10 | 0,001 | 5,0.10-10 | 2,7.10-10 | 1,7.10-10 | 1,3.10-10 | 1,1.10-10 |
| Ta‑178 | 2,20 h | M | 0,010 | 4,4.10-10 | 0,001 | 3,3.10-10 | 1,7.10-10 | 1,1.10-10 | 8,0.10-11 | 6,5.10-11 |
|  |  | S | 0,010 | 4,6.10-10 | 0,001 | 3,4.10-10 | 1,8.10-10 | 1,2.10-10 | 8,5.10-11 | 6,8.10-11 |
| Ta‑179 | 1,82 r | M | 0,010 | 1,2.10-9 | 0,001 | 9,6.10-10 | 5,5.10-10 | 3,5.10-10 | 2,6.10-10 | 2,2.10-10 |
|  |  | S | 0,010 | 2,4.10-9 | 0,001 | 2,1.10-9 | 1,3.10-9 | 8,3.10-10 | 6,4.10-10 | 5,6.10-10 |
| Ta‑180 | 1,0.1013 r | M | 0,010 | 2,7.10-8 | 0,001 | 2,2.10-8 | 1,3.10-8 | 9,2.10-9 | 7,9.10-9 | 6,4.10-9 |
|  |  | S | 0,010 | 7,0.10-8 | 0,001 | 6,5.10-8 | 4,5.10-8 | 3,1.10-8 | 2,8.10-8 | 2,6.10-8 |
| Ta‑180m | 8,10 h | M | 0,010 | 3,1.10-10 | 0,001 | 2,2.10-10 | 1,1.10-10 | 7,4.10-11 | 4,8.10-11 | 4,4.10-11 |
|  |  | S | 0,010 | 3,3.10-10 | 0,001 | 2,3.10-10 | 1,2.10-10 | 7,9.10-11 | 5,2.10-11 | 4,2.10-11 |
| Ta‑182 | 115 d | M | 0,010 | 3,2.10-8 | 0,001 | 2,6.10-8 | 1,5.10-8 | 1,1.10-8 | 9,5.10-9 | 7,6.10-9 |
|  |  | S | 0,010 | 4,2.10-8 | 0,001 | 3,4.10-8 | 2,1.10-8 | 1,5.10-8 | 1,3.10-8 | 1,0.10-8 |
| Ta‑182m | 0,264 h | M | 0,010 | 1,6.10-10 | 0,001 | 1,1.10-10 | 4,9.10-11 | 3,4.10-11 | 2,4.10-11 | 2,0.10-11 |
|  |  | S | 0,010 | 1,6.10-10 | 0,001 | 1,1.10-10 | 5,2.10-11 | 3,6.10-11 | 2,5.10-11 | 2,1.10-11 |
| Ta‑183 | 5,10 d | M | 0,010 | 1,0.10-8 | 0,001 | 7,4.10-9 | 4,1.10-9 | 2,9.10-9 | 2,4.10-9 | 1,9.10-9 |
|  |  | S | 0,010 | 1,1.10-8 | 0,001 | 8,0.10-9 | 4,5.10-9 | 3,2.10-9 | 2,7.10-9 | 2,1.10-9 |
| Ta‑184 | 8,70 h | M | 0,010 | 3,2.10-9 | 0,001 | 2,3.10-9 | 1,1.10-9 | 7,5.10-10 | 5,0.10-10 | 4,1.10-10 |
|  |  | S | 0,010 | 3,4.10-9 | 0,001 | 2,4.10-9 | 1,2.10-9 | 7,9.10-10 | 5,4.10-10 | 4,3.10-10 |
| Ta‑185 | 0,816 h | M | 0,010 | 3,8.10-10 | 0,001 | 2,5.10-10 | 1,2.10-10 | 7,7.10-11 | 5,4.10-11 | 4,5.10-11 |
|  |  | S | 0,010 | 4,0.10-10 | 0,001 | 2,6.10-10 | 1,2.10-10 | 8,2.10-11 | 5,7.10-11 | 4,8.10-11 |
| Ta‑186 | 0,175 h | M | 0,010 | 1,6.10-10 | 0,001 | 1,1.10-10 | 4,8.10-11 | 3,1.10-11 | 2,0.10-11 | 1,7.10-11 |
|  |  | S | 0,010 | 1,6.10-10 | 0,001 | 1,1.10-10 | 5,0.10-11 | 3,2.10-11 | 2,1.10-11 | 1,8.10-11 |
| **Wolfrám** | | | | | | | | | | |
| W‑176 | 2,30 h | F | 0,600 | 3,3.10-10 | 0,300 | 2,7.10-10 | 1,4.10-10 | 8,6.10-11 | 5,0.10-11 | 4,1.10-11 |
| W‑177 | 2,25 h | F | 0,600 | 2,0.10-10 | 0,300 | 1,6.10-10 | 8,2.10-11 | 5,1.10-11 | 3,0.10-11 | 2,4.10-11 |
| W‑178 | 21,7 d | F | 0,600 | 7,2.10-10 | 0,300 | 5,4.10-10 | 2,5.10-10 | 1,6.10-10 | 8,7.10-11 | 7,2.10-11 |
| W‑179 | 0,625 h | F | 0,600 | 9,3.10-12 | 0,300 | 6,8.10-12 | 3,3.10-12 | 2,0.10-12 | 1,2.10-12 | 9,2.10-13 |
| W‑181 | 121 d | F | 0,600 | 2,5.10-10 | 0,300 | 1,9.10-10 | 9,2.10-11 | 5,7.10-11 | 3,2.10-11 | 2,7.10-11 |
| W‑185 | 75,1 d | F | 0,600 | 1,4.10-9 | 0,300 | 1,0.10-9 | 4,4.10-10 | 2,7.10-10 | 1,4.10-10 | 1,2.10-10 |
| W‑187 | 23,9 h | F | 0,600 | 2,0.10-9 | 0,300 | 1,5.10-9 | 7,0.10-10 | 4,3.10-10 | 2,3.10-10 | 1,9.10-10 |
| W‑188 | 69,4 d | F | 0,600 | 7,1.10-9 | 0,300 | 5,0.10-9 | 2,2.10-9 | 1,3.10-9 | 6,8.10-10 | 5,7.10-10 |
| **Rénium** | | | | | | | | | | |
| Re‑177 | 0,233 h | F | 1,000 | 9,4.10-11 | 0,800 | 6,7.10-11 | 3,2.10-11 | 1,9.10-11 | 1,2.10-11 | 9,7.10-12 |
|  |  | M | 1,000 | 1,1.10-10 | 0,800 | 7,9.10-11 | 3,9.10-11 | 2,5.10-11 | 1,7.10-11 | 1,4.10-11 |
| Re‑178 | 0,220 h | F | 1,000 | 9,9.10-11 | 0,800 | 6,8.10-11 | 3,1.10-11 | 1,9.10-11 | 1,2.10-11 | 1,0.10-11 |
|  |  | M | 1,000 | 1,3.10-10 | 0,800 | 8,5.10-11 | 3,9.10-11 | 2,6.10-11 | 1,7.10-11 | 1,4.10-11 |
| Re‑181 | 20,0 h | F | 1,000 | 2,0.10-9 | 0,800 | 1,4.10-9 | 6,7.10-10 | 3,8.10-10 | 2,3.10-10 | 1,8.10-10 |
|  |  | M | 1,000 | 2,1.10-9 | 0,800 | 1,5.10-9 | 7,4.10-10 | 4,6.10-10 | 3,1.10-10 | 2,5.10-10 |
| Re‑182 | 2,67 d | F | 1,000 | 6,5.10-9 | 0,800 | 4,7.10-9 | 2,2.10-9 | 1,3.10-9 | 8,0.10-10 | 6,4.10-10 |
|  |  | M | 1,000 | 8,7.10-9 | 0,800 | 6,3.10-9 | 3,4.10-9 | 2,2.10-9 | 1,5.10-9 | 1,2.10-9 |
| Re‑182 | 12,7 h | F | 1,000 | 1,3.10-9 | 0,800 | 1,0.10-9 | 4,9.10-10 | 2,8.10-10 | 1,7.10-10 | 1,4.10-10 |
|  |  | M | 1,000 | 1,4.10-9 | 0,800 | 1,1.10-9 | 5,7.10-10 | 3,6.10-10 | 2,5.10-10 | 2,0.10-10 |
| Re‑184 | 38,0 d | F | 1,000 | 4,1.10-9 | 0,800 | 2,9.10-9 | 1,4.10-9 | 8,6.10-10 | 5,4.10-10 | 4,4.10-10 |
|  |  | M | 1,000 | 9,1.10-9 | 0,800 | 6,8.10-9 | 4,0.10-9 | 2,8.10-9 | 2,4.10-9 | 1,9.10-9 |
| Re‑184m | 165 d | F | 1,000 | 6,6.10-9 | 0,800 | 4,6.10-9 | 2,0.10-9 | 1,2.10-9 | 7,3.10-10 | 5,9.10-10 |
|  |  | M | 1,000 | 2,9.10-8 | 0,800 | 2,2.10-8 | 1,3.10-8 | 9,3.10-9 | 8,1.10-9 | 6,5.10-9 |
| Re‑186 | 3,78 d | F | 1,000 | 7,3.10-9 | 0,800 | 4,7.10-9 | 2,0.10-9 | 1,1.10-9 | 6,6.10-10 | 5,2.10-10 |
|  |  | M | 1,000 | 8,7.10-9 | 0,800 | 5,7.10-9 | 2,8.10-9 | 1,8.10-9 | 1,4.10-9 | 1,1.10-9 |
| Re‑186m | 2,00.105 r | F | 1,000 | 1,2.10-8 | 0,800 | 7,0.10-9 | 2,9.10-9 | 1,7.10-9 | 1,0.10-9 | 8,3.10-10 |
|  |  | M | 1,000 | 5,9.10-8 | 0,800 | 4,6.10-8 | 2,7.10-8 | 1,8.10-8 | 1,4.10-8 | 1,2.10-8 |
| Re‑187 | 5,00.1010 r | F | 1,000 | 2,6.10-11 | 0,800 | 1,6.10-11 | 6,8.10-12 | 3,8.10-12 | 2,3.10-12 | 1,8.10-12 |
|  |  | M | 1,000 | 5,7.10-11 | 0,800 | 4,1.10-11 | 2,0.10-11 | 1,2.10-11 | 7,5.10-12 | 6,3.10-12 |
| Re‑188 | 17,0 h | F | 1,000 | 6,5.10-9 | 0,800 | 4,4.10-9 | 1,9.10-9 | 1,0.10-9 | 6,1.10-10 | 4,6.10-10 |
|  |  | M | 1,000 | 6,0.10-9 | 0,800 | 4,0.10-9 | 1,8.10-9 | 1,0.10-9 | 6,8.10-10 | 5,4.10-10 |
| Re‑188m | 0,310 h | F | 1,000 | 1,4.10-10 | 0,800 | 9,1.10-11 | 4,0.10-11 | 2,1.10-11 | 1,3.10-11 | 1,0.10-11 |
|  |  | M | 1,000 | 1,3.10-10 | 0,800 | 8,6.10-11 | 4,0.10-11 | 2,7.10-11 | 1,6.10-11 | 1,3.10-11 |
| Re‑189 | 1,01 d | F | 1,000 | 3,7.10-9 | 0,800 | 2,5.10-9 | 1,1.10-9 | 5,8.10-10 | 3,5.10-10 | 2,7.10-10 |
|  |  | M | 1,000 | 3,9.10-9 | 0,800 | 2,6.10-9 | 1,2.10-9 | 7,6.10-10 | 5,5.10-10 | 4,3.10-10 |
| **Osmium** | | | | | | | | | | |
| Os‑180 | 0,366 h | F | 0,020 | 7,1.10-11 | 0,010 | 5,3.10-11 | 2,6.10-11 | 1,6.10-11 | 1,0.10-11 | 8,2.10-12 |
|  |  | M | 0,020 | 1,1.10-10 | 0,010 | 7,9.10-11 | 3,9.10-11 | 2,5.10-11 | 1,7.10-11 | 1,4.10-11 |
|  |  | S | 0,020 | 1,1.10-10 | 0,010 | 8,2.10-11 | 4,1.10-11 | 2,6.10-11 | 1,8.10-11 | 1,5.10-11 |
| Os‑181 | 1,75 h | F | 0,020 | 3,0.10-10 | 0,010 | 2,3.10-10 | 1,1.10-10 | 7,0.10-11 | 4,1.10-11 | 3,3.10-11 |
|  |  | M | 0,020 | 4,5.10-10 | 0,010 | 3,4.10-10 | 1,8.10-10 | 1,1.10-10 | 7,6.10-11 | 6,2.10-11 |
|  |  | S | 0,020 | 4,7.10-10 | 0,010 | 3,6.10-10 | 1,8.10-10 | 1,2.10-10 | 8,1.10-11 | 6,5.10-11 |
| Os‑182 | 22,0 h | F | 0,020 | 1,6.10-9 | 0,010 | 1,2.10-9 | 6,0.10-10 | 3,7.10-10 | 2,1.10-10 | 1,7.10-10 |
|  |  | M | 0,020 | 2,5.10-9 | 0,010 | 1,9.10-9 | 1,0.10-9 | 6,6.10-10 | 4,5.10-10 | 3,6.10-10 |
|  |  | S | 0,020 | 2,6.10-9 | 0,010 | 2,0.10-9 | 1,0.10-9 | 6,9.10-10 | 4,8.10-10 | 3,8.10-10 |
| Os‑185 | 94,0 d | F | 0,020 | 7,2.10-9 | 0,010 | 5,8.10-9 | 3,1.10-9 | 1,9.10-9 | 1,2.10-9 | 1,1.10-9 |
|  |  | M | 0,020 | 6,6.10-9 | 0,010 | 5,4.10-9 | 2,9.10-9 | 2,0.10-9 | 1,5.10-9 | 1,3.10-9 |
|  |  | S | 0,020 | 7,0.10-9 | 0,010 | 5,8.10-9 | 3,6.10-9 | 2,4.10-9 | 1,9.10-9 | 1,6.10-9 |
| Os‑189m | 6,00 h | F | 0,020 | 3,8.10-11 | 0,010 | 2,8.10-11 | 1,2.10-11 | 7,0.10-12 | 3,5.10-12 | 2,5.10-12 |
|  |  | M | 0,020 | 6,5.10-11 | 0,010 | 4,1.10-11 | 1,8.10-11 | 1,1.10-11 | 6,0.10-12 | 5,0.10-12 |
|  |  | S | 0,020 | 6,8.10-11 | 0,010 | 4,3.10-11 | 1,9.10-11 | 1,2.10-11 | 6,3.10-12 | 5,3.10-12 |
| Os‑191 | 15,4 d | F | 0,020 | 2,8.10-9 | 0,010 | 1,9.10-9 | 8,5.10-10 | 5,3.10-10 | 3,0.10-10 | 2,5.10-10 |
|  |  | M | 0,020 | 8,0.10-9 | 0,010 | 5,8.10-9 | 3,4.10-9 | 2,4.10-9 | 2,0.10-9 | 1,7.10-9 |
|  |  | S | 0,020 | 9,0.10-9 | 0,010 | 6,5.10-9 | 3,9.10-9 | 2,7.10-9 | 2,3.10-9 | 1,9.10-9 |
| Os‑191m | 13,0 h | F | 0,020 | 3,0.10-10 | 0,010 | 2,0.10-10 | 8,8.10-11 | 5,4.10-11 | 2,9.10-11 | 2,4.10-11 |
|  |  | M | 0,020 | 7,8.10-10 | 0,010 | 5,4.10-10 | 3,1.10-10 | 2,1.10-10 | 1,7.10-10 | 1,4.10-10 |
|  |  | S | 0,020 | 8,5.10-10 | 0,010 | 6,0.10-10 | 3,4.10-10 | 2,4.10-10 | 2,0.10-10 | 1,6.10-10 |
| Os‑193 | 1,25 d | F | 0,020 | 1,9.10-9 | 0,010 | 1,2.10-9 | 5,2.10-10 | 3,2.10-10 | 1,8.10-10 | 1,6.10-10 |
|  |  | M | 0,020 | 3,8.10-9 | 0,010 | 2,6.10-9 | 1,3.10-9 | 8,4.10-10 | 5,9.10-10 | 4,8.10-10 |
|  |  | S | 0,020 | 4,0.10-9 | 0,010 | 2,7.10-9 | 1,3.10-9 | 9,0.10-10 | 6,4.10-10 | 5,2.10-10 |
| Os‑194 | 6,00 r | F | 0,020 | 8,7.10-8 | 0,010 | 6,8.10-8 | 3,4.10-8 | 2,1.10-8 | 1,3.10-8 | 1,1.10-8 |
|  |  | M | 0,020 | 9,9.10-8 | 0,010 | 8,3.10-8 | 4,8.10-8 | 3,1.10-8 | 2,4.10-8 | 2,1.10-8 |
|  |  | S | 0,020 | 2,6.10-7 | 0,010 | 2,4.10-7 | 1,6.10-7 | 1,1.10-7 | 8,8.10-8 | 8,5.10-8 |
| **Irídium** | | | | | | | | | | |
| Ir‑182 | 0,250 h | F | 0,020 | 1,4.10-10 | 0,010 | 9,8.10-11 | 4,5.10-11 | 2,8.10-11 | 1,7.10-11 | 1,4.10-11 |
|  |  | M | 0,020 | 2,1.10-10 | 0,010 | 1,4.10-10 | 6,7.10-11 | 4,3.10-11 | 2,8.10-11 | 2,3.10-11 |
|  |  | S | 0,020 | 2,2.10-10 | 0,010 | 1,5.10-10 | 6,9.10-11 | 4,4.10-11 | 2,9.10-11 | 2,4.10-11 |
| Ir‑184 | 3,02 h | F | 0,020 | 5,7.10-10 | 0,010 | 4,4.10-10 | 2,1.10-10 | 1,3.10-10 | 7,6.10-11 | 6,2.10-11 |
|  |  | M | 0,020 | 8,6.10-10 | 0,010 | 6,4.10-10 | 3,2.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
|  |  | S | 0,020 | 8,9.10-10 | 0,010 | 6,6.10-10 | 3,4.10-10 | 2,2.10-10 | 1,4.10-10 | 1,2.10-10 |
| Ir‑185 | 14,0 h | F | 0,020 | 8,0.10-10 | 0,010 | 6,1.10-10 | 2,9.10-10 | 1,8.10-10 | 1,0.10-10 | 8,2.10-11 |
|  |  | M | 0,020 | 1,3.10-9 | 0,010 | 9,7.10-10 | 4,9.10-10 | 3,2.10-10 | 2,2.10-10 | 1,8.10-10 |
|  |  | S | 0,020 | 1,4.10-9 | 0,010 | 1,0.10-9 | 5,2.10-10 | 3,4.10-10 | 2,3.10-10 | 1,9.10-10 |
| Ir‑186 | 15,8 h | F | 0,020 | 1,5.10-9 | 0,010 | 1,2.10-9 | 5,9.10-10 | 3,6.10-10 | 2,1.10-10 | 1,7.10-10 |
|  |  | M | 0,020 | 2,2.10-9 | 0,010 | 1,7.10-9 | 8,8.10-10 | 5,8.10-10 | 3,8.10-10 | 3,1.10-10 |
|  |  | S | 0,020 | 2,3.10-9 | 0,010 | 1,8.10-9 | 9,2.10-10 | 6,0.10-10 | 4,0.10-10 | 3,2.10-10 |
| Ir‑186 | 1,75 h | F | 0,020 | 2,1.10-10 | 0,010 | 1,6.10-10 | 7,7.10-11 | 4,8.10-11 | 2,8.10-11 | 2,3.10-11 |
|  |  | M | 0,020 | 3,3.10-10 | 0,010 | 2,4.10-10 | 1,2.10-10 | 7,7.10-11 | 5,1.10-11 | 4,2.10-11 |
|  |  | S | 0,020 | 3,4.10-10 | 0,010 | 2,5.10-10 | 1,2.10-10 | 8,1.10-11 | 5,4.10-11 | 4,4.10-11 |
| Ir‑187 | 10,5 h | F | 0,020 | 3,6.10-10 | 0,010 | 2,8.10-10 | 1,4.10-10 | 8,2.10-11 | 4,6.10-11 | 3,7.10-11 |
|  |  | M | 0,020 | 5,8.10-10 | 0,010 | 4,3.10-10 | 2,2.10-10 | 1,4.10-10 | 9,2.10-11 | 7,4.10-11 |
|  |  | S | 0,020 | 6,0.10-10 | 0,010 | 4,5.10-10 | 2,3.10-10 | 1,5.10-10 | 9,7.10-11 | 7,9.10-11 |
| Ir‑188 | 1,73 d | F | 0,020 | 2,0.10-9 | 0,010 | 1,6.10-9 | 8,0.10-10 | 5,0.10-10 | 2,9.10-10 | 2,4.10-10 |
|  |  | M | 0,020 | 2,7.10-9 | 0,010 | 2,1.10-9 | 1,1.10-9 | 7,5.10-10 | 5,0.10-10 | 4,0.10-10 |
|  |  | S | 0,020 | 2,8.10-9 | 0,010 | 2,2.10-9 | 1,2.10-9 | 7,8.10-10 | 5,2.10-10 | 4,2.10-10 |
| Ir‑189 | 13,3 d | F | 0,020 | 1,2.10-9 | 0,010 | 8,2.10-10 | 3,8.10-10 | 2,4.10-10 | 1,3.10-10 | 1,1.10-10 |
|  |  | M | 0,020 | 2,7.10-9 | 0,010 | 1,9.10-9 | 1,1.10-9 | 7,7.10-10 | 6,4.10-10 | 5,2.10-10 |
|  |  | S | 0,020 | 3,0.10-9 | 0,010 | 2,2.10-9 | 1,3.10-9 | 8,7.10-10 | 7,3.10-10 | 6,0.10-10 |
| Ir‑190 | 12,1 d | F | 0,020 | 6,2.10-9 | 0,010 | 4,7.10-9 | 2,4.10-9 | 1,5.10-9 | 9,1.10-10 | 7,7.10-10 |
|  |  | M | 0,020 | 1,1.10-8 | 0,010 | 8,6.10-9 | 4,4.10-9 | 3,1.10-9 | 2,7.10-9 | 2,1.10-9 |
|  |  | S | 0,020 | 1,1.10-8 | 0,010 | 9,4.10-9 | 4,8.10-9 | 3,5.10-9 | 3,0.10-9 | 2,4.10-9 |
| Ir‑190m | 3,10 h | F | 0,020 | 4,2.10-10 | 0,010 | 3,4.10-10 | 1,7.10-10 | 1,0.10-10 | 6,0.10-11 | 4,9.10-11 |
|  |  | M | 0,020 | 6,0.10-10 | 0,010 | 4,7.10-10 | 2,4.10-10 | 1,5.10-10 | 9,9.10-11 | 7,9.10-11 |
|  |  | S | 0,020 | 6,2.10-10 | 0,010 | 4,8.10-10 | 2,5.10-10 | 1,6.10-10 | 1,0.10-10 | 8,3.10-11 |
| Ir‑190m | 1,20 h | F | 0,020 | 3,2.10-11 | 0,010 | 2,4.10-11 | 1,2.10-11 | 7,2.10-12 | 4,3.10-12 | 3,6.10-12 |
|  |  | M | 0,020 | 5,7.10-11 | 0,010 | 4,2.10-11 | 2,0.10-11 | 1,4.10-11 | 1,2.10-11 | 9,3.10-12 |
|  |  | S | 0,020 | 5,5.10-11 | 0,010 | 4,5.10-11 | 2,2.10-11 | 1,6.10-11 | 1,3.10-11 | 1,0.10-11 |
| Ir‑192 | 74,0 d | F | 0,020 | 1,5.10-8 | 0,010 | 1,1.10-8 | 5,7.10-9 | 3,3.10-9 | 2,1.10-9 | 1,8.10-9 |
|  |  | M | 0,020 | 2,3.10-8 | 0,010 | 1,8.10-8 | 1,1.10-8 | 7,6.10-9 | 6,4.10-9 | 5,2.10-9 |
|  |  | S | 0,020 | 2,8.10-8 | 0,010 | 2,2.10-8 | 1,3.10-8 | 9,5.10-9 | 8,1.10-9 | 6,6.10-9 |
| Ir‑192m | 2,41.102 r | F | 0,020 | 2,7.10-8 | 0,010 | 2,3.10-8 | 1,4.10-8 | 8,2.10-9 | 5,4.10-9 | 4,8.10-9 |
|  |  | M | 0,020 | 2,3.10-8 | 0,010 | 2,1.10-8 | 1,3.10-8 | 8,4.10-9 | 6,6.10-9 | 5,8.10-9 |
|  |  | S | 0,020 | 9,2.10-8 | 0,010 | 9,1.10-8 | 6,5.10-8 | 4,5.10-8 | 4,0.10-8 | 3,9.10-8 |
| Ir‑193m | 11,9 d | F | 0,020 | 1,2.10-9 | 0,010 | 8,4.10-10 | 3,7.10-10 | 2,2.10-10 | 1,2.10-10 | 1,0.10-10 |
|  |  | M | 0,020 | 4,8.10-9 | 0,010 | 3,5.10-9 | 2,1.10-9 | 1,5.10-9 | 1,4.10-9 | 1,1.10-9 |
|  |  | S | 0,020 | 5,4.10-9 | 0,010 | 4,0.10-9 | 2,4.10-9 | 1,8.10-9 | 1,6.10-9 | 1,3.10-9 |
| Ir‑194 | 19,1 h | F | 0,020 | 2,9.10-9 | 0,010 | 1,9.10-9 | 8,1.10-10 | 4,9.10-10 | 2,5.10-10 | 2,1.10-10 |
|  |  | M | 0,020 | 5,3.10-9 | 0,010 | 3,5.10-9 | 1,6.10-9 | 1,0.10-9 | 6,3.10-10 | 5,2.10-10 |
|  |  | S | 0,020 | 5,5.10-9 | 0,010 | 3,7.10-9 | 1,7.10-9 | 1,1.10-9 | 6,7.10-10 | 5,6.10-10 |
| Ir‑194m | 171 d | F | 0,020 | 3,4.10-8 | 0,010 | 2,7.10-8 | 1,4.10-8 | 9,5.10-9 | 6,2.10-9 | 5,4.10-9 |
|  |  | M | 0,020 | 3,9.10-8 | 0,010 | 3,2.10-8 | 1,9.10-8 | 1,3.10-8 | 1,1.10-8 | 9,0.10-9 |
|  |  | S | 0,020 | 5,0.10-8 | 0,010 | 4,2.10-8 | 2,6.10-8 | 1,8.10-8 | 1,5.10-8 | 1,3.10-8 |
| Ir‑195 | 2,50 h | F | 0,020 | 2,9.10-10 | 0,010 | 1,9.10-10 | 8,1.10-11 | 5,1.10-11 | 2,9.10-11 | 2,4.10-11 |
|  |  | M | 0,020 | 5,4.10-10 | 0,010 | 3,6.10-10 | 1,7.10-10 | 1,1.10-10 | 8,1.10-11 | 6,7.10-11 |
|  |  | S | 0,020 | 5,7.10-10 | 0,010 | 3,8.10-10 | 1,8.10-10 | 1,2.10-10 | 8,7.10-11 | 7,1.10-11 |
| Ir‑195m | 3,80 h | F | 0,020 | 6,9.10-10 | 0,010 | 4,8.10-10 | 2,1.10-10 | 1,3.10-10 | 7,2.10-11 | 6,0.10-11 |
|  |  | M | 0,020 | 1,2.10-9 | 0,010 | 8,6.10-10 | 4,2.10-10 | 2,7.10-10 | 1,9.10-10 | 1,6.10-10 |
|  |  | S | 0,020 | 1,3.10-9 | 0,010 | 9,0.10-10 | 4,4.10-10 | 2,9.10-10 | 2,0.10-10 | 1,7.10-10 |
| **Platina** | | | | | | | | | | |
| Pt‑186 | 2,00 h | F | 0,020 | 3,0.10-10 | 0,010 | 2,4.10-10 | 1,2.10-10 | 7,2.10-11 | 4,1.10-11 | 3,3.10-11 |
| Pt‑188 | 10,2 d | F | 0,020 | 3,6.10-9 | 0,010 | 2,7.10-9 | 1,3.10-9 | 8,4.10-10 | 5,0.10-10 | 4,2.10-10 |
| Pt‑189 | 10,9 h | F | 0,020 | 3,8.10-10 | 0,010 | 2,9.10-10 | 1,4.10-10 | 8,4.10-11 | 4,7.10-11 | 3,8.10-11 |
| Pt‑191 | 2,80 d | F | 0,020 | 1,1.10-9 | 0,010 | 7,9.10-10 | 3,7.10-10 | 2,3.10-10 | 1,3.10-10 | 1,1.10-10 |
| Pt‑193 | 50,0 r | F | 0,020 | 2,2.10-10 | 0,010 | 1,6.10-10 | 7,2.10-11 | 4,3.10-11 | 2,5.10-11 | 2,1.10-11 |
| Pt‑193m | 4,33 d | F | 0,020 | 1,6.10-9 | 0,010 | 1,0.10-9 | 4,5.10-10 | 2,7.10-10 | 1,4.10-10 | 1,2.10-10 |
| Pt‑195m | 4,02 d | F | 0,020 | 2,2.10-9 | 0,010 | 1,5.10-9 | 6,4.10-10 | 3,9.10-10 | 2,1.10-10 | 1,8.10-10 |
| Pt‑197 | 18,3 h | F | 0,020 | 1,1.10-9 | 0,010 | 7,3.10-10 | 3,1.10-10 | 1,9.10-10 | 1,0.10-10 | 8,5.10-11 |
| Pt‑197m | 1,57 h | F | 0,020 | 2,8.10-10 | 0,010 | 1,8.10-10 | 7,9.10-11 | 4,9.10-11 | 2,8.10-11 | 2,4.10-11 |
| Pt‑199 | 0,513 h | F | 0,020 | 1,3.10-10 | 0,010 | 8,3.10-11 | 3,6.10-11 | 2,3.10-11 | 1,4.10-11 | 1,2.10-11 |
| Pt‑200 | 12,5 h | F | 0,020 | 2,6.10-9 | 0,010 | 1,7.10-9 | 7,2.10-10 | 5,1.10-10 | 2,6.10-10 | 2,2.10-10 |
| **Zlato** |  |  |  |  |  |  |  |  |  |  |
| Au‑193 | 17,6 h | F | 0,200 | 3,7.10-10 | 0,100 | 2,8.10-10 | 1,3.10-10 | 7,9.10-11 | 4,3.10-11 | 3,6.10-11 |
|  |  | M | 0,200 | 7,5.10-10 | 0,100 | 5,6.10-10 | 2,8.10-10 | 1,9.10-10 | 1,4.10-10 | 1,1.10-10 |
|  |  | S | 0,200 | 7,9.10-10 | 0,100 | 5,9.10-10 | 3,0.10-10 | 2,0.10-10 | 1,5.10-10 | 1,2.10-10 |
| Au‑194 | 1,64 d | F | 0,200 | 1,2.10-9 | 0,100 | 9,6.10-10 | 4,9.10-10 | 3,0.10-10 | 1,8.10-10 | 1,4.10-10 |
|  |  | M | 0,200 | 1,7.10-9 | 0,100 | 1,4.10-9 | 7,1.10-10 | 4,6.10-10 | 2,9.10-10 | 2,3.10-10 |
|  |  | S | 0,200 | 1,7.10-9 | 0,100 | 1,4.10-9 | 7,3.10-10 | 4,7.10-10 | 3,0.10-10 | 2,4.10-10 |
| Au‑195 | 183 d | F | 0,200 | 7,2.10-10 | 0,100 | 5,3.10-10 | 2,5.10-10 | 1,5.10-10 | 8,1.10-11 | 6,6.10-11 |
|  |  | M | 0,200 | 5,2.10-9 | 0,100 | 4,1.10-9 | 2,4.10-9 | 1,6.10-9 | 1,4.10-9 | 1,1.10-9 |
|  |  | S | 0,200 | 8,1.10-9 | 0,100 | 6,6.10-9 | 3,9.10-9 | 2,6.10-9 | 2,1.10-9 | 1,7.10-9 |
| Au‑198 | 2,69 d | F | 0,200 | 2,4.10-9 | 0,100 | 1,7.10-9 | 7,6.10-10 | 4,7.10-10 | 2,5.10-10 | 2,1.10-10 |
|  |  | M | 0,200 | 5,0.10-9 | 0,100 | 4,1.10-9 | 1,9.10-9 | 1,3.10-9 | 9,7.10-10 | 7,8.10-10 |
|  |  | S | 0,200 | 5,4.10-9 | 0,100 | 4,4.10-9 | 2,0.10-9 | 1,4.10-9 | 1,1.10-9 | 8,6.10-10 |
| Au‑198m | 2,30 d | F | 0,200 | 3,3.10-9 | 0,100 | 2,4.10-9 | 1,1.10-9 | 6,9.10-10 | 3,7.10-10 | 3,2.10-10 |
|  |  | M | 0,200 | 8,7.10-9 | 0,100 | 6,5.10-9 | 3,6.10-9 | 2,6.10-9 | 2,2.10-9 | 1,8.10-9 |
|  |  | S | 0,200 | 9,5.10-9 | 0,100 | 7,1.10-9 | 4,0.10-9 | 2,9.10-9 | 2,5.10-9 | 2,0.10-9 |
| Au‑199 | 3,14 d | F | 0,200 | 1,1.10-9 | 0,100 | 7,9.10-10 | 3,5.10-10 | 2,2.10-10 | 1,1.10-10 | 9,8.10-11 |
|  |  | M | 0,200 | 3,4.10-9 | 0,100 | 2,5.10-9 | 1,4.10-9 | 1,0.10-9 | 9,0.10-10 | 7,1.10-10 |
|  |  | S | 0,200 | 3,8.10-9 | 0,100 | 2,8.10-9 | 1,6.10-9 | 1,2.10-9 | 1,0.10-9 | 7,9.10-10 |
| Au‑200 | 0,807 h | F | 0,200 | 1,9.10-10 | 0,100 | 1,2.10-10 | 5,2.10-11 | 3,2.10-11 | 1,9.10-11 | 1,6.10-11 |
|  |  | M | 0,200 | 3,2.10-10 | 0,100 | 2,1.10-10 | 9,3.10-11 | 6,0.10-11 | 4,0.10-11 | 3,3.10-11 |
|  |  | S | 0,200 | 3,4.10-10 | 0,100 | 2,1.10-10 | 9,8.10-11 | 6,3.10-11 | 4,2.10-11 | 3,5.10-11 |
| Au‑200m | 18,7 h | F | 0,200 | 2,7.10-9 | 0,100 | 2,1.10-9 | 1,0.10-9 | 6,4.10-10 | 3,6.10-10 | 2,9.10-10 |
|  |  | M | 0,200 | 4,8.10-9 | 0,100 | 3,7.10-9 | 1,9.10-9 | 1,2.10-9 | 8,4.10-10 | 6,8.10-10 |
|  |  | S | 0,200 | 5,1.10-9 | 0,100 | 3,9.10-9 | 2,0.10-9 | 1,3.10-9 | 8,9.10-10 | 7,2.10-10 |
| Au‑201 | 0,440 h | F | 0,200 | 9,0.10-11 | 0,100 | 5,7.10-11 | 2,5.10-11 | 1,6.10-11 | 1,0.10-11 | 8,7.10-12 |
|  |  | M | 0,200 | 1,5.10-10 | 0,100 | 9,6.10-11 | 4,3.10-11 | 2,9.10-11 | 2,0.10-11 | 1,7.10-11 |
|  |  | S | 0,200 | 1,5.10-10 | 0,100 | 1,0.10-10 | 4,5.10-11 | 3,0.10-11 | 2,1.10-11 | 1,7.10-11 |
| **Ortuť** |  |  |  |  |  |  |  |  |  |  |
| Hg‑193 (organická) | 3,50 h | F | 0,800 | 2,2.10-10 | 0,400 | 1,8.10-10 | 8,2.10-11 | 5,0.10-11 | 2,9.10-11 | 2,4.10-11 |
| Hg‑193 (anorganická) | 3,50 h | F | 0,040 | 2,7.10-10 | 0,020 | 2,0.10-10 | 8,9.10-11 | 5,5.10-11 | 3,1.10-11 | 2,6.10-11 |
|  |  | M | 0,040 | 5,3.10-10 | 0,020 | 3,8.10-10 | 1,9.10-10 | 1,3.10-10 | 9,2.10-11 | 7,5.10-11 |
| Hg‑193m (organická) | 11,1 h | F | 0,800 | 8,4.10-10 | 0,400 | 7,6.10-10 | 3,7.10-10 | 2,2.10-10 | 1,3.10-10 | 1,0.10-10 |
| Hg‑193m (anorganická) | 11,1 h | F | 0,040 | 1,1.10-9 | 0,020 | 8,5.10-10 | 4,1.10-10 | 2,5.10-10 | 1,4.10-10 | 1,1.10-10 |
|  |  | M | 0,040 | 1,9.10-9 | 0,020 | 1,4.10-9 | 7,2.10-10 | 4,7.10-10 | 3,2.10-10 | 2,6.10-10 |
| Hg‑194 (organická) | 2,60 102  r | F | 0,800 | 4,9.10-8 | 0,400 | 3,7.10-8 | 2,4.10-8 | 1,9.10-8 | 1,5.10-8 | 1,4.10-8 |
| Hg‑194 (anorganická) | 2,60 102  r | F | 0,040 | 3,2.10-8 | 0,020 | 2,9.10-8 | 2,0.10-8 | 1,6.10-8 | 1,4.10-8 | 1,3.10-8 |
|  |  | M | 0,040 | 2,1.10-8 | 0,020 | 1,9.10-8 | 1,3.10-8 | 1,0.10-8 | 8,9.10-9 | 8,3.10-9 |
| Hg‑195 (organická) | 9,90 h | F | 0,800 | 2,0.10-10 | 0,400 | 1,8.10-10 | 8,5.10-11 | 5,1.10-11 | 2,8.10-11 | 2,3.10-11 |
| Hg‑195 (anorganická) | 9,90 h | F | 0,040 | 2,7.10-10 | 0,020 | 2,0.10-10 | 9,5.10-11 | 5,7.10-11 | 3,1.10-11 | 2,5.10-11 |
|  |  | M | 0,040 | 5,3.10-10 | 0,020 | 3,9.10-10 | 2,0.10-10 | 1,3.10-10 | 9,0.10-11 | 7,3.10-11 |
| Hg‑195m (organická) | 1,73 d | F | 0,800 | 1,1.10-9 | 0,400 | 9,7.10-10 | 4,4.10-10 | 2,7.10-10 | 1,4.10-10 | 1,2.10-10 |
| Hg‑195m (anorganická) | 1,73 d | F | 0,040 | 1,6.10-9 | 0,020 | 1,1.10-9 | 5,1.10-10 | 3,1.10-10 | 1,7.10-10 | 1,4.10-10 |
|  |  | M | 0,040 | 3,7.10-9 | 0,020 | 2,6.10-9 | 1,4.10-9 | 8,5.10-10 | 6,7.10-10 | 5,3.10-10 |
| Hg‑197 (organická) | 2,67 d | F | 0,800 | 4,7.10-10 | 0,400 | 4,0.10-10 | 1,8.10-10 | 1,1.10-10 | 5,8.10-11 | 4,7.10-11 |
| Hg‑197 (anorganická) | 2,67 d | F | 0,040 | 6,8.10-10 | 0,020 | 4,7.10-10 | 2,1.10-10 | 1,3.10-10 | 6,8.10-11 | 5,6.10-11 |
|  |  | M | 0,040 | 1,7.10-9 | 0,020 | 1,2.10-9 | 6,6.10-10 | 4,6.10-10 | 3,8.10-10 | 3,0.10-10 |
| Hg‑197m (organická) | 23,8 h | F | 0,800 | 9,3.10-10 | 0,400 | 7,8.10-10 | 3,4.10-10 | 2,1.10-10 | 1,1.10-10 | 9,6.10-11 |
| Hg‑197m (anorganická) | 23,8 h | F | 0,040 | 1,4.10-9 | 0,020 | 9,3.10-10 | 4,0.10-10 | 2,5.10-10 | 1,3.10-10 | 1,1.10-10 |
|  |  | M | 0,040 | 3,5.10-9 | 0,020 | 2,5.10-9 | 1,1.10-9 | 8,2.10-10 | 6,7.10-10 | 5,3.10-10 |
| Hg‑199m (organická) | 0,7 10 h | F | 0,800 | 1,4.10-10 | 0,400 | 9,6.10-11 | 4,2.10-11 | 2,7.10-11 | 1,7.10-11 | 1,5.10-11 |
| Hg‑199m (anorganická) | 0,7 10 h | F | 0,040 | 1,4.10-10 | 0,020 | 9,6.10-11 | 4,2.10-11 | 2,7.10-11 | 1,7.10-11 | 1,5.10-11 |
|  |  | M | 0,040 | 2,5.10-10 | 0,020 | 1,7.10-10 | 7,9.10-11 | 5,4.10-11 | 3,8.10-11 | 3,2.10-11 |
| Hg‑203 (organická) | 46,6 d | F | 0,800 | 5,7.10-9 | 0,400 | 3,7.10-9 | 1,7.10-9 | 1,1.10-9 | 6,6.10-10 | 5,6.10-10 |
| Hg‑203 (anorganická) | 46,6 d | F | 0,040 | 4,2.10-9 | 0,020 | 2,9.10-9 | 1,4.10-9 | 9,0.10-10 | 5,5.10-10 | 4,6.10-10 |
|  |  | M | 0,040 | 1,0.10-8 | 0,020 | 7,9.10-9 | 4,7.10-9 | 3,4.10-9 | 3,0.10-9 | 2,4.10-9 |
| **Tálium** |  |  |  |  |  |  |  |  |  |  |
| Tl‑194 | 0,550 h | F | 1,000 | 3,6.10-11 | 1,000 | 3,0.10-11 | 1,5.10-11 | 9,2.10-12 | 5,5.10-12 | 4,4.10-12 |
| Tl‑194m | 0,546 h | F | 1,000 | 1,7.10-10 | 1,000 | 1,2.10-10 | 6,1.10-11 | 3,8.10-11 | 2,3.10-11 | 1,9.10-11 |
| Tl‑195 | 1,16 h | F | 1,000 | 1,3.10-10 | 1,000 | 1,0.10-10 | 5,3.10-11 | 3,2.10-11 | 1,9.10-11 | 1,5.10-11 |
| Tl‑197 | 2,84 h | F | 1,000 | 1,3.10-10 | 1,000 | 9,7.10-11 | 4,7.10-11 | 2,9.10-11 | 1,7.10-11 | 1,4.10-11 |
| Tl‑198 | 5,30 h | F | 1,000 | 4,7.10-10 | 1,000 | 4,0.10-10 | 2,1.10-10 | 1,3.10-10 | 7,5.10-11 | 6,0.10-11 |
| Tl‑198m | 1,87 h | F | 1,000 | 3,2.10-10 | 1,000 | 2,5.10-10 | 1,2.10-10 | 7,5.10-11 | 4,5.10-11 | 3,7.10-11 |
| Tl‑199 | 7,42 h | F | 1,000 | 1,7.10-10 | 1,000 | 1,3.10-10 | 6,4.10-11 | 3,9.10-11 | 2,3.10-11 | 1,9.10-11 |
| Tl‑200 | 1,09 d | F | 1,000 | 1,0.10-9 | 1,000 | 8,7.10-10 | 4,6.10-10 | 2,8.10-10 | 1,6.10-10 | 1,3.10-10 |
| Tl‑201 | 3,04 d | F | 1,000 | 4,5.10-10 | 1,000 | 3,3.10-10 | 1,5.10-10 | 9,4.10-11 | 5,4.10-11 | 4,4.10-11 |
| Tl‑202 | 12,2 d | F | 1,000 | 1,5.10-9 | 1,000 | 1,2.10-9 | 5,9.10-10 | 3,8.10-10 | 2,3.10-10 | 1,9.10-10 |
| Tl‑204 | 3,78 r | F | 1,000 | 5,0.10-9 | 1,000 | 3,3.10-9 | 1,5.10-9 | 8,8.10-10 | 4,7.10-10 | 3,9.10-10 |
| **Olovo** |  |  |  |  |  |  |  |  |  |  |
| Pb‑195m | 0,263 h | F | 0,600 | 1,3.10-10 | 0,200 | 1,0.10-10 | 4,9.10-11 | 3,1.10-11 | 1,9.10-11 | 1,6.10-11 |
|  |  | M | 0,200 | 2,0.10-10 | 0,100 | 1,5.10-10 | 7,1.10-11 | 4,6.10-11 | 3,1.10-11 | 2,5.10-11 |
|  |  | S | 0,020 | 2,1.10-10 | 0,010 | 1,5.10-10 | 7,4.10-11 | 4,8.10-11 | 3,2.10-11 | 2,7.10-11 |
| Pb‑198 | 2,40 h | F | 0,600 | 3,4.10-10 | 0,200 | 2,9.10-10 | 1,5.10-10 | 8,9.10-11 | 5,2.10-11 | 4,3.10-11 |
|  |  | M | 0,200 | 5,0.10-10 | 0,100 | 4,0.10-10 | 2,1.10-10 | 1,3.10-10 | 8,3.10-11 | 6,6.10-11 |
|  |  | S | 0,020 | 5,4.10-10 | 0,010 | 4,2.10-10 | 2,2.10-10 | 1,4.10-10 | 8,7.10-11 | 7,0.10-11 |
| Pb‑199 | 1,50 h | F | 0,600 | 1,9.10-10 | 0,200 | 1,6.10-10 | 8,2.10-11 | 4,9.10-11 | 2,9.10-11 | 2,3.10-11 |
|  |  | M | 0,200 | 2,8.10-10 | 0,100 | 2,2.10-10 | 1,1.10-10 | 7,1.10-11 | 4,5.10-11 | 3,6.10-11 |
|  |  | S | 0,020 | 2,9.10-10 | 0,010 | 2,3.10-10 | 1,2.10-10 | 7,4.10-11 | 4,7.10-11 | 3,7.10-11 |
| Pb‑200 | 21,5 h | F | 0,600 | 1,1.10-9 | 0,200 | 9,3.10-10 | 4,6.10-10 | 2,8.10-10 | 1,6.10-10 | 1,4.10-10 |
|  |  | M | 0,200 | 2,2.10-9 | 0,100 | 1,7.10-9 | 8,6.10-10 | 5,7.10-10 | 4,1.10-10 | 3,3.10-10 |
|  |  | S | 0,020 | 2,4.10-9 | 0,010 | 1,8.10-9 | 9,2.10-10 | 6,2.10-10 | 4,4.10-10 | 3,5.10-10 |
| Pb‑201 | 9,40 h | F | 0,600 | 4,8.10-10 | 0,200 | 4,1.10-10 | 2,0.10-10 | 1,2.10-10 | 7,1.10-11 | 6,0.10-11 |
|  |  | M | 0,200 | 8,0.10-10 | 0,100 | 6,4.10-10 | 3,3.10-10 | 2,1.10-10 | 1,4.10-10 | 1,1.10-10 |
|  |  | S | 0,020 | 8,8.10-10 | 0,010 | 6,7.10-10 | 3,5.10-10 | 2,2.10-10 | 1,5.10-10 | 1,2.10-10 |
| Pb‑202 | 3,00 105  r | F | 0,600 | 1,9.10-8 | 0,200 | 1,3.10-8 | 8,9.10-9 | 1,3.10-8 | 1,8.10-8 | 1,1.10-8 |
|  |  | M | 0,200 | 1,2.10-8 | 0,100 | 8,9.10-9 | 6,2.10-9 | 6,7.10-9 | 8,7.10-9 | 6,3.10-9 |
|  |  | S | 0,020 | 2,8.10-8 | 0,010 | 2,8.10-8 | 2,0.10-8 | 1,4.10-8 | 1,3.10-8 | 1,2.10-8 |
| Pb‑202m | 3,62 h | F | 0,600 | 4,7.10-10 | 0,200 | 4,0.10-10 | 2,1.10-10 | 1,3.10-10 | 7,5.10-11 | 6,2.10-11 |
|  |  | M | 0,200 | 6,9.10-10 | 0,100 | 5,6.10-10 | 2,9.10-10 | 1,9.10-10 | 1,2.10-10 | 9,5.10-11 |
|  |  | S | 0,020 | 7,3.10-10 | 0,010 | 5,8.10-10 | 3,0.10-10 | 1,9.10-10 | 1,3.10-10 | 1,0.10-10 |
| Pb‑203 | 2,17 d | F | 0,600 | 7,2.10-10 | 0,200 | 5,8.10-10 | 2,8.10-10 | 1,7.10-10 | 9,9.10-11 | 8,5.10-11 |
|  |  | M | 0,200 | 1,3.10-9 | 0,100 | 1,0.10-9 | 5,4.10-10 | 3,6.10-10 | 2,5.10-10 | 2,0.10-10 |
|  |  | S | 0,020 | 1,5.10-9 | 0,010 | 1,1.10-9 | 5,8.10-10 | 3,8.10-10 | 2,8.10-10 | 2,2.10-10 |
| Pb‑205 | 1,43 107  r | F | 0,600 | 1,1.10-9 | 0,200 | 6,9.10-10 | 4,0.10-10 | 4,1.10-10 | 4,3.10-10 | 3,3.10-10 |
|  |  | M | 0,200 | 1,1.10-9 | 0,100 | 7,7.10-10 | 4,3.10-10 | 3,2.10-10 | 2,9.10-10 | 2,5.10-10 |
|  |  | S | 0,020 | 2,9.10-9 | 0,010 | 2,7.10-9 | 1,7.10-9 | 1,1.10-9 | 9,2.10-10 | 8,5.10-10 |
| Pb‑209 | 3,25 h | F | 0,600 | 1,8.10-10 | 0,200 | 1,2.10-10 | 5,3.10-11 | 3,4.10-11 | 1,9.10-11 | 1,7.10-11 |
|  |  | M | 0,200 | 4,0.10-10 | 0,100 | 2,7.10-10 | 1,3.10-10 | 9,2.10-11 | 6,9.10-11 | 5,6.10-11 |
|  |  | S | 0,020 | 4,4.10-10 | 0,010 | 2,9.10-10 | 1,4.10-10 | 9,9.10-11 | 7,5.10-11 | 6,1.10-11 |
| Pb‑210 | 22,3 r | F | 0,600 | 4,7.10-6 | 0,200 | 2,9.10-6 | 1,5.10-6 | 1,4.10-6 | 1,3.10-6 | 9,0.10-7 |
|  |  | M | 0,200 | 5,0.10-6 | 0,100 | 3,7.10-6 | 2,2.10-6 | 1,5.10-6 | 1,3.10-6 | 1,1.10-6 |
|  |  | S | 0,020 | 1,8.10-5 | 0,010 | 1,8.10-5 | 1,1.10-5 | 7,2.10-6 | 5,9.10-6 | 5,6.10-6 |
| Pb‑211 | 0,601 h | F | 0,600 | 2,5.10-8 | 0,200 | 1,7.10-8 | 8,7.10-9 | 6,1.10-9 | 4,6.10-9 | 3,9.10-9 |
|  |  | M | 0,200 | 6,2.10-8 | 0,100 | 4,5.10-8 | 2,5.10-8 | 1,9.10-8 | 1,4.10-8 | 1,1.10-8 |
|  |  | S | 0,020 | 6,6.10-8 | 0,010 | 4,8.10-8 | 2,7.10-8 | 2,0.10-8 | 1,5.10-8 | 1,2.10-8 |
| Pb‑212 | 10,6 h | F | 0,600 | 1,9.10-7 | 0,200 | 1,2.10-7 | 5,4.10-8 | 3,5.10-8 | 2,0.10-8 | 1,8.10-8 |
|  |  | M | 0,200 | 6,2.10-7 | 0,100 | 4,6.10-7 | 3,0.10-7 | 2,2.10-7 | 2,2.10-7 | 1,7.10-7 |
|  |  | S | 0,020 | 6,7.10-7 | 0,010 | 5,0.10-7 | 3,3.10-7 | 2,5.10-7 | 2,4.10-7 | 1,9.10-7 |
| Pb‑214 | 0,447 h | F | 0,600 | 2,2.10-8 | 0,200 | 1,5.10-8 | 6,9.10-9 | 4,8.10-9 | 3,3.10-9 | 2,8.10-9 |
|  |  | M | 0,200 | 6,4.10-8 | 0,100 | 4,6.10-8 | 2,6.10-8 | 1,9.10-8 | 1,4.10-8 | 1,4.10-8 |
|  |  | S | 0,020 | 6,9.10-8 | 0,010 | 5,0.10-8 | 2,8.10-8 | 2,1.10-8 | 1,5.10-8 | 1,5.10-8 |
| **Bizmut** |  |  |  |  |  |  |  |  |  |  |
| Bi‑200 | 0,606 h | F | 0,100 | 1,9.10-10 | 0,050 | 1,5.10-10 | 7,4.10-11 | 4,5.10-11 | 2,7.10-11 | 2,2.10-11 |
|  |  | M | 0,100 | 2,5.10-10 | 0,050 | 1,9.10-10 | 9,9.10-11 | 6,3.10-11 | 4,1.10-11 | 3,3.10-11 |
| Bi‑201 | 1,80 h | F | 0,100 | 4,0.10-10 | 0,050 | 3,1.10-10 | 1,5.10-10 | 9,3.10-11 | 5,4.10-11 | 4,4.10-11 |
|  |  | M | 0,100 | 5,5.10-10 | 0,050 | 4,1.10-10 | 2,0.10-10 | 1,3.10-10 | 8,3.10-11 | 6,6.10-11 |
| Bi‑202 | 1,67 h | F | 0,100 | 3,4.10-10 | 0,050 | 2,8.10-10 | 1,5.10-10 | 9,0.10-11 | 5,3.10-11 | 4,3.10-11 |
|  |  | M | 0,100 | 4,2.10-10 | 0,050 | 3,4.10-10 | 1,8.10-10 | 1,1.10-10 | 6,9.10-11 | 5,5.10-11 |
| Bi‑203 | 11,8 h | F | 0,100 | 1,5.10-9 | 0,050 | 1,2.10-9 | 6,4.10-10 | 4,0.10-10 | 2,3.10-10 | 1,9.10-10 |
|  |  | M | 0,100 | 2,0.10-9 | 0,050 | 1,6.10-9 | 8,2.10-10 | 5,3.10-10 | 3,3.10-10 | 2,6.10-10 |
| Bi‑205 | 15,3 d | F | 0,100 | 3,0.10-9 | 0,050 | 2,4.10-9 | 1,3.10-9 | 8,0.10-10 | 4,7.10-10 | 3,8.10-10 |
|  |  | M | 0,100 | 5,5.10-9 | 0,050 | 4,4.10-9 | 2,5.10-9 | 1,6.10-9 | 1,2.10-9 | 9,3.10-10 |
| Bi‑206 | 6,24 d | F | 0,100 | 6,1.10-9 | 0,050 | 4,8.10-9 | 2,5.10-9 | 1,6.10-9 | 9,1.10-10 | 7,4.10-10 |
|  |  | M | 0,100 | 1,0.10-8 | 0,050 | 8,0.10-9 | 4,4.10-9 | 2,9.10-9 | 2,1.10-9 | 1,7.10-9 |
| Bi‑207 | 38,0 r | F | 0,100 | 4,3.10-9 | 0,050 | 3,3.10-9 | 1,7.10-9 | 1,0.10-9 | 6,0.10-10 | 4,9.10-10 |
|  |  | M | 0,100 | 2,3.10-8 | 0,050 | 2,0.10-8 | 1,2.10-8 | 8,2.10-9 | 6,5.10-9 | 5,6.10-9 |
| Bi‑210 | 5,01 d | F | 0,100 | 1,1.10-8 | 0,050 | 6,9.10-9 | 3,2.10-9 | 2,1.10-9 | 1,3.10-9 | 1,1.10-9 |
|  |  | M | 0,100 | 3,9.10-7 | 0,050 | 3,0.10-7 | 1,9.10-7 | 1,3.10-7 | 1,1.10-7 | 9,3.10-8 |
| Bi‑210m | 3,00 106  r | F | 0,100 | 4,1.10-7 | 0,050 | 2,6.10-7 | 1,3.10-7 | 8,3.10-8 | 5,6.10-8 | 4,6.10-8 |
|  |  | M | 0,100 | 1,5.10-5 | 0,050 | 1,1.10-5 | 7,0.10-6 | 4,8.10-6 | 4,1.10-6 | 3,4.10-6 |
| Bi‑212 | 1,01 h | F | 0,100 | 6,5.10-8 | 0,050 | 4,5.10-8 | 2,1.10-8 | 1,5.10-8 | 1,0.10-8 | 9,1.10-9 |
|  |  | M | 0,100 | 1,6.10-7 | 0,050 | 1,1.10-7 | 6,0.10-8 | 4,4.10-8 | 3,8.10-8 | 3,1.10-8 |
| Bi‑213 | 0,761 h | F | 0,100 | 7,7.10-8 | 0,050 | 5,3.10-8 | 2,5.10-8 | 1,7.10-8 | 1,2.10-8 | 1,0.10-8 |
|  |  | M | 0,100 | 1,6.10-7 | 0,050 | 1,2.10-7 | 6,0.10-8 | 4,4.10-8 | 3,6.10-8 | 3,0.10-8 |
| Bi‑214 | 0,332 h | F | 0,100 | 5,0.10-8 | 0,050 | 3,5.10-8 | 1,6.10-8 | 1,1.10-8 | 8,2.10-9 | 7,1.10-9 |
|  |  | M | 0,100 | 8,7.10-8 | 0,050 | 6,1.10-8 | 3,1.10-8 | 2,2.10-8 | 1,7.10-8 | 1,4.10-8 |
| **Polónium** |  |  |  |  |  |  |  |  |  |  |
| Po‑203 | 0,612 h | F | 0,200 | 1,9.10-10 | 0,100 | 1,5.10-10 | 7,7.10-11 | 4,7.10-11 | 2,8.10-11 | 2,3.10-11 |
|  |  | M | 0,200 | 2,7.10-10 | 0,100 | 2,1.10-10 | 1,1.10-10 | 6,7.10-11 | 4,3.10-11 | 3,5.10-11 |
|  |  | S | 0,020 | 2,8.10-10 | 0,010 | 2,2.10-10 | 1,1.10-10 | 7,0.10-11 | 4,5.10-11 | 3,6.10-11 |
| Po‑205 | 1,80 h | F | 0,200 | 2,6.10-10 | 0,100 | 2,1.10-10 | 1,1.10-10 | 6,6.10-11 | 4,1.10-11 | 3,3.10-11 |
|  |  | M | 0,200 | 4,0.10-10 | 0,100 | 3,1.10-10 | 1,7.10-10 | 1,1.10-10 | 8,1.10-11 | 6,5.10-11 |
|  |  | S | 0,020 | 4,2.10-10 | 0,010 | 3,2.10-10 | 1,8.10-10 | 1,2.10-10 | 8,5.10-11 | 6,9.10-11 |
| Po‑207 | 5,83 h | F | 0,200 | 4,8.10-10 | 0,100 | 4,0.10-10 | 2,1.10-10 | 1,3.10-10 | 7,3.10-11 | 5,8.10-11 |
|  |  | M | 0,200 | 6,2.10-10 | 0,100 | 5,1.10-10 | 2,6.10-10 | 1,6.10-10 | 9,9.10-11 | 7,8.10-11 |
|  |  | S | 0,020 | 6,6.10-10 | 0,010 | 5,3.10-10 | 2,7.10-10 | 1,7.10-10 | 1,0.10-10 | 8,2.10-11 |
| Po‑210 | 138 d | F | 0,200 | 7,4.10-6 | 0,100 | 4,8.10-6 | 2,2.10-6 | 1,3.10-6 | 7,7.10-7 | 6,1.10-7 |
|  |  | M | 0,200 | 1,5.10-5 | 0,100 | 1,1.10-5 | 6,7.10-6 | 4,6.10-6 | 4,0.10-6 | 3,3.10-6 |
|  |  | S | 0,020 | 1,8.10-5 | 0,010 | 1,4.10-5 | 8,6.10-6 | 5,9.10-6 | 5,1.10-6 | 4,3.10-6 |
| **Astát** |  |  |  |  |  |  |  |  |  |  |
| At‑207 | 1,80 h | F | 1,000 | 2,4.10-9 | 1,000 | 1,7.10-9 | 8,9.10-10 | 5,9.10-10 | 4,0.10-10 | 3,3.10-10 |
|  |  | M | 1,000 | 9,2.10-9 | 1,000 | 6,7.10-9 | 4,3.10-9 | 3,1.10-9 | 2,9.10-9 | 2,3.10-9 |
| At‑211 | 7,21 h | F | 1,000 | 1,4.10-7 | 1,000 | 9,7.10-8 | 4,3.10-8 | 2,8.10-8 | 1,7.10-8 | 1,6.10-8 |
|  |  | M | 1,000 | 5,2.10-7 | 1,000 | 3,7.10-7 | 1,9.10-7 | 1,4.10-7 | 1,3.10-7 | 1,1.10-7 |
| **Francium** |  |  |  |  |  |  |  |  |  |  |
| Fr‑222 | 0,240 h | F | 1,000 | 9,1.10-8 | 1,000 | 6,3.10-8 | 3,0.10-8 | 2,1.10-8 | 1,6.10-8 | 1,4.10-8 |
| Fr‑223 | 0,363 h | F | 1,000 | 1,1.10-8 | 1,000 | 7,3.10-9 | 3,2.10-9 | 1,9.10-9 | 1,0.10-9 | 8,9.10-10 |
| **Rádium** |  |  |  |  |  |  |  |  |  |  |
| Ra‑223 | 11,4 d | F | 0,600 | 3,0.10-6 | 0,200 | 1,0.10-6 | 4,9.10-7 | 4,0.10-7 | 3,3.10-7 | 1,2.10-7 |
|  |  | M | 0,200 | 2,8.10-5 | 0,100 | 2,1.10-5 | 1,3.10-5 | 9,9.10-6 | 9,4.10-6 | 7,4.10-6 |
|  |  | S | 0,020 | 3,2.10-5 | 0,010 | 2,4.10-5 | 1,5.10-5 | 1,1.10-5 | 1,1.10-5 | 8,7.10-6 |
| Ra‑224 | 3,66 d | F | 0,600 | 1,5.10-6 | 0,200 | 6,0.10-7 | 2,9.10-7 | 2,2.10-7 | 1,7.10-7 | 7,5.10-8 |
|  |  | M | 0,200 | 1,1.10-5 | 0,100 | 8,2.10-6 | 5,3.10-6 | 3,9.10-6 | 3,7.10-6 | 3,0.10-6 |
|  |  | S | 0,020 | 1,2.10-5 | 0,010 | 9,2.10-6 | 5,9.10-6 | 4,4.10-6 | 4,2.10-6 | 3,4.10-6 |
| Ra‑225 | 14,8 d | F | 0,600 | 4,0.10-6 | 0,200 | 1,2.10-6 | 5,6.10-7 | 4,6.10-7 | 3,8.10-7 | 1,3.10-7 |
|  |  | M | 0,200 | 2,4.10-5 | 0,100 | 1,8.10-5 | 1,1.10-5 | 8,4.10-6 | 7,9.10-6 | 6,3.10-6 |
|  |  | S | 0,020 | 2,8.10-5 | 0,010 | 2,2.10-5 | 1,4.10-5 | 1,0.10-5 | 9,8.10-6 | 7,7.10-6 |
| Ra‑226 | 1,60 103  r | F | 0,600 | 2,6.10-6 | 0,200 | 9,4.10-7 | 5,5.10-7 | 7,2.10-7 | 1,3.10-6 | 3,6.10-7 |
|  |  | M | 0,200 | 1,5.10-5 | 0,100 | 1,1.10-5 | 7,0.10-6 | 4,9.10-6 | 4,5.10-6 | 3,5.10-6 |
|  |  | S | 0,020 | 3,4.10-5 | 0,010 | 2,9.10-5 | 1,9.10-5 | 1,2.10-5 | 1,0.10-5 | 9,5.10-6 |
| Ra‑227 | 0,703 h | F | 0,600 | 1,5.10-9 | 0,200 | 1,2.10-9 | 7,8.10-10 | 6,1.10-10 | 5,3.10-10 | 4,6.10-10 |
|  |  | M | 0,200 | 8,0.10-10 | 0,100 | 6,7.10-10 | 4,4.10-10 | 3,2.10-10 | 2,9.10-10 | 2,8.10-10 |
|  |  | S | 0,020 | 1,0.10-9 | 0,010 | 8,5.10-10 | 4,4.10-10 | 2,9.10-10 | 2,4.10-10 | 2,2.10-10 |
| Ra‑228 | 5,75 r | F | 0,600 | 1,7.10-5 | 0,200 | 5,7.10-6 | 3,1.10-6 | 3,6.10-6 | 4,6.10-6 | 9,0.10-7 |
|  |  | M | 0,200 | 1,5.10-5 | 0,100 | 1,0.10-5 | 6,3.10-6 | 4,6.10-6 | 4,4.10-6 | 2,6.10-6 |
|  |  | S | 0,020 | 4,9.10-5 | 0,010 | 4,8.10-5 | 3,2.10-5 | 2,0.10-5 | 1,6.10-5 | 1,6.10-5 |
| **Aktínium** |  |  |  |  |  |  |  |  |  |  |
| Ac‑224 | 2,90 h | F | 0,005 | 1,3.10-7 | 5,0.10-4 | 8,9.10-8 | 4,7.10-8 | 3,1.10-8 | 1,4.10-8 | 1,1.10-8 |
|  |  | M | 0,005 | 4,2.10-7 | 5,0.10-4 | 3,2.10-7 | 2,0.10-7 | 1,5.10-7 | 1,4.10-7 | 1,1.10-7 |
|  |  | S | 0,005 | 4,6.10-7 | 5,0.10-4 | 3,5.10-7 | 2,2.10-7 | 1,7.10-7 | 1,6.10-7 | 1,3.10-7 |
| Ac‑225 | 10,0 d | F | 0,005 | 1,1.10-5 | 5,0.10-4 | 7,7.10-6 | 4,0.10-6 | 2,6.10-6 | 1,1.10-6 | 8,8.10-7 |
|  |  | M | 0,005 | 2,8.10-5 | 5,0.10-4 | 2,1.10-5 | 1,3.10-5 | 1,0.10-5 | 9,3.10-6 | 7,4.10-6 |
|  |  | S | 0,005 | 3,1.10-5 | 5,0.10-4 | 2,3.10-5 | 1,5.10-5 | 1,1.10-5 | 1,1.10-5 | 8,5.10-6 |
| Ac‑226 | 1,21 d | F | 0,005 | 1,5.10-6 | 5,0.10-4 | 1,1.10-6 | 4,0.10-7 | 2,6.10-7 | 1,2.10-7 | 9,6.10-8 |
|  |  | M | 0,005 | 4,3.10-6 | 5,0.10-4 | 3,2.10-6 | 2,1.10-6 | 1,5.10-6 | 1,5.10-6 | 1,2.10-6 |
|  |  | S | 0,005 | 4,7.10-6 | 5,0.10-4 | 3,5.10-6 | 2,3.10-6 | 1,7.10-6 | 1,6.10-6 | 1,3.10-6 |
| Ac‑227 | 21,8 r | F | 0,005 | 1,7.10-3 | 5,0.10-4 | 1,6.10-3 | 1,0.10-3 | 7,2.10-4 | 5,6.10-4 | 5,5.10-4 |
|  |  | M | 0,005 | 5,7.10-4 | 5,0.10-4 | 5,5.10-4 | 3,9.10-4 | 2,6.10-4 | 2,3.10-4 | 2,2.10-4 |
|  |  | S | 0,005 | 2,2.10-4 | 5,0.10-4 | 2,0.10-4 | 1,3.10-4 | 8,7.10-5 | 7,6.10-5 | 7,2.10-5 |
| Ac‑228 | 6,13 h | F | 0,005 | 1,8.10-7 | 5,0.10-4 | 1,6.10-7 | 9,7.10-8 | 5,7.10-8 | 2,9.10-8 | 2,5.10-8 |
|  |  | M | 0,005 | 8,4.10-8 | 5,0.10-4 | 7,3.10-8 | 4,7.10-8 | 2,9.10-8 | 2,0.10-8 | 1,7.10-8 |
|  |  | S | 0,005 | 6,4.10-8 | 5,0.10-4 | 5,3.10-8 | 3,3.10-8 | 2,2.10-8 | 1,9.10-8 | 1,6.10-8 |
| **Tórium** |  |  |  |  |  |  |  |  |  |  |
| Th‑226 | 0,515 h | F | 0,005 | 1,4.10-7 | 5,0.10-4 | 1,0.10-7 | 4,8.10-8 | 3,4.10-8 | 2,5.10-8 | 2,2.10-8 |
|  |  | M | 0,005 | 3,0.10-7 | 5,0.10-4 | 2,1.10-7 | 1,1.10-7 | 8,3.10-8 | 7,0.10-8 | 5,8.10-8 |
|  |  | S | 0,005 | 3,1.10-7 | 5,0.10-4 | 2,2.10-7 | 1,2.10-7 | 8,8.10-8 | 7,5.10-8 | 6,1.10-8 |
| Th‑227 | 18,7 d | F | 0,005 | 8,4.10-6 | 5,0.10-4 | 5,2.10-6 | 2,6.10-6 | 1,6.10-6 | 1,0.10-6 | 6,7.10-7 |
|  |  | M | 0,005 | 3,2.10-5 | 5,0.10-4 | 2,5.10-5 | 1,6.10-5 | 1,1.10-5 | 1,1.10-5 | 8,5.10-6 |
|  |  | S | 0,005 | 3,9.10-5 | 5,0.10-4 | 3,0.10-5 | 1,9.10-5 | 1,4.10-5 | 1,3.10-5 | 1,0.10-5 |
| Th‑228 | 1,91 r | F | 0,005 | 1,8.10-4 | 5,0.10-4 | 1,5.10-4 | 8,3.10-5 | 5,2.10-5 | 3,6.10-5 | 2,9.10-5 |
|  |  | M | 0,005 | 1,3.10-4 | 5,0.10-4 | 1,1.10-4 | 6,8.10-5 | 4,6.10-5 | 3,9.10-5 | 3,2.10-5 |
|  |  | S | 0,005 | 1,6.10-4 | 5,0.10-4 | 1,3.10-4 | 8,2.10-5 | 5,5.10-5 | 4,7.10-5 | 4,0.10-5 |
| Th‑229 | 7,34 103  r | F | 0,005 | 5,4.10-4 | 5,0.10-4 | 5,1.10-4 | 3,6.10-4 | 2,9.10-4 | 2,4.10-4 | 2,4.10-4 |
|  |  | M | 0,005 | 2,3.10-4 | 5,0.10-4 | 2,1.10-4 | 1,6.10-4 | 1,2.10-4 | 1,1.10-4 | 1,1.10-4 |
|  |  | S | 0,005 | 2,1.10-4 | 5,0.10-4 | 1,9.10-4 | 1,3.10-4 | 8,7.10-5 | 7,6.10-5 | 7,1.10-5 |
| Th‑230 | 7,70 104  r | F | 0,005 | 2,1.10-4 | 5,0.10-4 | 2,0.10-4 | 1,4.10-4 | 1,1.10-4 | 9,9.10-5 | 1,0.10-4 |
|  |  | M | 0,005 | 7,7.10-5 | 5,0.10-4 | 7,4.10-5 | 5,5.10-5 | 4,3.10-5 | 4,2.10-5 | 4,3.10-5 |
|  |  | S | 0,005 | 4,0.10-5 | 5,0.10-4 | 3,5.10-5 | 2,4.10-5 | 1,6.10-5 | 1,5.10-5 | 1,4.10-5 |
| Th‑231 | 1,06 d | F | 0,005 | 1,1.10-9 | 5,0.10-4 | 7,2.10-10 | 2,6.10-10 | 1,6.10-10 | 9,2.10-11 | 7,8.10-11 |
|  |  | M | 0,005 | 2,2.10-9 | 5,0.10-4 | 1,6.10-9 | 8,0.10-10 | 4,8.10-10 | 3,8.10-10 | 3,1.10-10 |
|  |  | S | 0,005 | 2,4.10-9 | 5,0.10-4 | 1,7.10-9 | 7,6.10-10 | 5,2.10-10 | 4,1.10-10 | 3,3.10-10 |
| Th‑232 | 1,40 1010  r | F | 0,005 | 2,3.10-4 | 5,0.10-4 | 2,2.10-4 | 1,6.10-4 | 1,3.10-4 | 1,2.10-4 | 1,1.10-4 |
|  |  | M | 0,005 | 8,3.10-5 | 5,0.10-4 | 8,1.10-5 | 6,3.10-5 | 5,0.10-5 | 4,7.10-5 | 4,5.10-5 |
|  |  | S | 0,005 | 5,4.10-5 | 5,0.10-4 | 5,0.10-5 | 3,7.10-5 | 2,6.10-5 | 2,5.10-5 | 2,5.10-5 |
| Th‑234 | 24,1 d | F | 0,005 | 4,0.10-8 | 5,0.10-4 | 2,5.10-8 | 1,1.10-8 | 6,1.10-9 | 3,5.10-9 | 2,5.10-9 |
|  |  | M | 0,005 | 3,9.10-8 | 5,0.10-4 | 2,9.10-8 | 1,5.10-8 | 1,0.10-8 | 7,9.10-9 | 6,6.10-9 |
|  |  | S | 0,005 | 4,1.10-8 | 5,0.10-4 | 3,1.10-8 | 1,7.10-8 | 1,1.10-8 | 9,1.10-9 | 7,7.10-9 |
| **Protaktínium** |  |  |  |  |  |  |  |  |  |  |
| Pa‑227 | 0,638 h | M | 0,005 | 3,6.10-7 | 5,0.10-4 | 2,6.10-7 | 1,4.10-7 | 1,0.10-7 | 9,0.10-8 | 7,4.10-8 |
|  |  | S | 0,005 | 3,8.10-7 | 5,0.10-4 | 2,8.10-7 | 1,5.10-7 | 1,1.10-7 | 8,1.10-8 | 8,0.10-8 |
| Pa‑228 | 22,0 h | M | 0,005 | 2,6.10-7 | 5,0.10-4 | 2,1.10-7 | 1,3.10-7 | 8,8.10-8 | 7,7.10-8 | 6,4.10-8 |
|  |  | S | 0,005 | 2,9.10-7 | 5,0.10-4 | 2,4.10-7 | 1,5.10-7 | 1,0.10-7 | 9,1.10-8 | 7,5.10-8 |
| Pa‑230 | 17,4 h | M | 0,005 | 2,4.10-6 | 5,0.10-4 | 1,8.10-6 | 1,1.10-6 | 8,3.10-7 | 7,6.10-7 | 6,1.10-7 |
|  |  | S | 0,005 | 2,9.10-6 | 5,0.10-4 | 2,2.10-6 | 1,4.10-6 | 1,0.10-6 | 9,6.10-7 | 7,6.10-7 |
| Pa‑231 | 3,27 104  r | M | 0,005 | 2,2.10-4 | 5,0.10-4 | 2,3.10-4 | 1,9.10-4 | 1,5.10-4 | 1,5.10-4 | 1,4.10-4 |
|  |  | S | 0,005 | 7,4.10-5 | 5,0.10-4 | 6,9.10-5 | 5,2.10-5 | 3,9.10-5 | 3,6.10-5 | 3,4.10-5 |
| Pa‑232 | 1,31 d | M | 0,005 | 1,9.10-8 | 5,0.10-4 | 1,8.10-8 | 1,4.10-8 | 1,1.10-8 | 1,0.10-8 | 1,0.10-8 |
|  |  | S | 0,005 | 1,0.10-8 | 5,0.10-4 | 8,7.10-9 | 5,9.10-9 | 4,1.10-9 | 3,7.10-9 | 3,5.10-9 |
| Pa‑233 | 27,0 d | M | 0,005 | 1,5.10-8 | 5,0.10-4 | 1,1.10-8 | 6,5.10-9 | 4,7.10-9 | 4,1.10-9 | 3,3.10-9 |
|  |  | S | 0,005 | 1,7.10-8 | 5,0.10-4 | 1,3.10-8 | 7,5.10-9 | 5,5.10-9 | 4,9.10-9 | 3,9.10-9 |
| Pa‑234 | 6,70 h | M | 0,005 | 2,8.10-9 | 5,0.10-4 | 2,0.10-9 | 1,0.10-9 | 6,8.10-10 | 4,7.10-10 | 3,8.10-10 |
|  |  | S | 0,005 | 2,9.10-9 | 5,0.10-4 | 2,1.10-9 | 1,1.10-9 | 7,1.10-10 | 5,0.10-10 | 4,0.10-10 |
| **Urán** |  |  |  |  |  |  |  |  |  |  |
| U‑230 | 20,8 d | F | 0,040 | 3,2.10-6 | 0,020 | 1,5.10-6 | 7,2.10-7 | 5,4.10-7 | 4,1.10-7 | 3,8.10-7 |
|  |  | M | 0,040 | 4,9.10-5 | 0,020 | 3,7.10-5 | 2,4.10-5 | 1,8.10-5 | 1,7.10-5 | 1,3.10-5 |
|  |  | S | 0,020 | 5,8.10-5 | 0,002 | 4,4.10-5 | 2,8.10-5 | 2,1.10-5 | 2,0.10-5 | 1,6.10-5 |
| U‑231 | 4,20 d | F | 0,040 | 8,9.10-10 | 0,020 | 6,2.10-10 | 3,1.10-10 | 1,4.10-10 | 1,0.10-10 | 6,2.10-11 |
|  |  | M | 0,040 | 2,4.10-9 | 0,020 | 1,7.10-9 | 9,4.10-10 | 5,5.10-10 | 4,6.10-10 | 3,8.10-10 |
|  |  | S | 0,020 | 2,6.10-9 | 0,002 | 1,9.10-9 | 9,0.10-10 | 6,1.10-10 | 4,9.10-10 | 4,0.10-10 |
| U‑232 | 72,0 r | F | 0,040 | 1,6.10-5 | 0,020 | 1,0.10-5 | 6,9.10-6 | 6,8.10-6 | 7,5.10-6 | 4,0.10-6 |
|  |  | M | 0,040 | 3,0.10-5 | 0,020 | 2,4.10-5 | 1,6.10-5 | 1,1.10-5 | 1,0.10-5 | 7,8.10-6 |
|  |  | S | 0,020 | 1,0.10-4 | 0,002 | 9,7.10-5 | 6,6.10-5 | 4,3.10-5 | 3,8.10-5 | 3,7.10-5 |
| U‑233 | 1,58 105  r | F | 0,040 | 2,2.10-6 | 0,020 | 1,4.10-6 | 9,4.10-7 | 8,4.10-7 | 8,6.10-7 | 5,8.10-7 |
|  |  | M | 0,040 | 1,5.10-5 | 0,020 | 1,1.10-5 | 7,2.10-6 | 4,9.10-6 | 4,3.10-6 | 3,6.10-6 |
|  |  | S | 0,020 | 3,4.10-5 | 0,002 | 3,0.10-5 | 1,9.10-5 | 1,2.10-5 | 1,1.10-5 | 9,6.10-6 |
| U‑234 | 2,44 105  r | F | 0,040 | 2,1.10-6 | 0,020 | 1,4.10-6 | 9,0.10-7 | 8,0.10-7 | 8,2.10-7 | 5,6.10-7 |
|  |  | M | 0,040 | 1,5.10-5 | 0,020 | 1,1.10-5 | 7,0.10-6 | 4,8.10-6 | 4,2.10-6 | 3,5.10-6 |
|  |  | S | 0,020 | 3,3.10-5 | 0,002 | 2,9.10-5 | 1,9.10-5 | 1,2.10-5 | 1,0.10-5 | 9,4.10-6 |
| U‑235 | 7,04 108  r | F | 0,040 | 2,0.10-6 | 0,020 | 1,3.10-6 | 8,5.10-7 | 7,5.10-7 | 7,7.10-7 | 5,2.10-7 |
|  |  | M | 0,040 | 1,3.10-5 | 0,020 | 1,0.10-5 | 6,3.10-6 | 4,3.10-6 | 3,7.10-6 | 3,1.10-6 |
|  |  | S | 0,020 | 3,0.10-5 | 0,002 | 2,6.10-5 | 1,7.10-5 | 1,1.10-5 | 9,2.10-6 | 8,5.10-6 |
| U‑236 | 2,34 107  r | F | 0,040 | 2,0.10-6 | 0,020 | 1,3.10-6 | 8,5.10-7 | 7,5.10-7 | 7,8.10-7 | 5,3.10-7 |
|  |  | M | 0,040 | 1,4.10-5 | 0,020 | 1,0.10-5 | 6,5.10-6 | 4,5.10-6 | 3,9.10-6 | 3,2.10-6 |
|  |  | S | 0,020 | 3,1.10-5 | 0,002 | 2,7.10-5 | 1,8.10-5 | 1,1.10-5 | 9,5.10-6 | 8,7.10-6 |
| U‑237 | 6,75 d | F | 0,040 | 1,8.10-9 | 0,020 | 1,5.10-9 | 6,6.10-10 | 4,2.10-10 | 1,9.10-10 | 1,8.10-10 |
|  |  | M | 0,040 | 7,8.10-9 | 0,020 | 5,7.10-9 | 3,3.10-9 | 2,4.10-9 | 2,1.10-9 | 1,7.10-9 |
|  |  | S | 0,020 | 8,7.10-9 | 0,002 | 6,4.10-9 | 3,7.10-9 | 2,7.10-9 | 2,4.10-9 | 1,9.10-9 |
| U‑238 | 4,47 109  r | F | 0,040 | 1,9.10-6 | 0,020 | 1,3.10-6 | 8,2.10-7 | 7,3.10-7 | 7,4.10-7 | 5,0.10-7 |
|  |  | M | 0,040 | 1,2.10-5 | 0,020 | 9,4.10-6 | 5,9.10-6 | 4,0.10-6 | 3,4.10-6 | 2,9.10-6 |
|  |  | S | 0,020 | 2,9.10-5 | 0,002 | 2,5.10-5 | 1,6.10-5 | 1,0.10-5 | 8,7.10-6 | 8,0.10-6 |
| U‑239 | 0,392 h | F | 0,040 | 1,0.10-10 | 0,020 | 6,6.10-11 | 2,9.10-11 | 1,9.10-11 | 1,2.10-11 | 1,0.10-11 |
|  |  | M | 0,040 | 1,8.10-10 | 0,020 | 1,2.10-10 | 5,6.10-11 | 3,8.10-11 | 2,7.10-11 | 2,2.10-11 |
|  |  | S | 0,020 | 1,9.10-10 | 0,002 | 1,2.10-10 | 5,9.10-11 | 4,0.10-11 | 2,9.10-11 | 2,4.10-11 |
| U‑240 | 14,1 h | F | 0,040 | 2,4.10-9 | 0,020 | 1,6.10-9 | 7,1.10-10 | 4,5.10-10 | 2,3.10-10 | 2,0.10-10 |
|  |  | M | 0,040 | 4,6.10-9 | 0,020 | 3,1.10-9 | 1,7.10-9 | 1,1.10-9 | 6,5.10-10 | 5,3.10-10 |
|  |  | S | 0,020 | 4,9.10-9 | 0,002 | 3,3.10-9 | 1,6.10-9 | 1,1.10-9 | 7,0.10-10 | 5,8.10-10 |
| **Neptúnium** |  |  |  |  |  |  |  |  |  |  |
| Np‑232 | 0,245 h | F | 0,005 | 2,0.10‑10 | 5,0.10‑04 | 1,9.10‑10 | 1,2.10‑10 | 1,1.10‑10 | 1,1.10‑10 | 1,2.10‑10 |
|  |  | M | 0,005 | 8,9.10‑11 | 5,0.10‑04 | 8,1.10‑11 | 5,5.10‑11 | 4,5.10‑11 | 4,7.10‑11 | 5,0.10‑11 |
|  |  | S | 0,005 | 1,2.10‑10 | 5,0.10‑04 | 9,7.10‑11 | 5,8.10‑11 | 3,9.10‑11 | 2,5.10‑11 | 2,4.10‑11 |
| Np‑233 | 0,603 h | F | 0,005 | 1,1.10‑11 | 5,0.10‑04 | 8,7.10‑12 | 4,2.10‑12 | 2,5.10‑12 | 1,4.10‑12 | 1,1.10‑12 |
|  |  | M | 0,005 | 1,5.10‑11 | 5,0.10‑04 | 1,1.10‑11 | 5,5.10‑12 | 3,3.10‑12 | 2,1.10‑12 | 1,6.10‑12 |
|  |  | S | 0,005 | 1,5.10‑11 | 5,0.10‑04 | 1,2.10‑11 | 5,7.10‑12 | 3,4.10‑12 | 2,1.10‑12 | 1,7.10‑12 |
| Np‑234 | 4,40 d | F | 0,005 | 2,9.10‑09 | 5,0.10‑04 | 2,2.10‑09 | 1,1.10‑09 | 7,2.10‑10 | 4,3.10‑10 | 3,5.10‑10 |
|  |  | M | 0,005 | 3,8.10‑09 | 5,0.10‑04 | 3,0.10‑09 | 1,6.10‑09 | 1,0.10‑09 | 6,5.10‑10 | 5,3.10‑10 |
|  |  | S | 0,005 | 3,9.10‑09 | 5,0.10‑04 | 3,1.10‑09 | 1,6.10‑09 | 1,0.10‑09 | 6,8.10‑10 | 5,5.10‑10 |
| Np‑235 | 1,08 r | F | 0,005 | 4,2.10‑09 | 5,0.10‑04 | 3,5.10‑09 | 1,9.10‑09 | 1,1.10‑09 | 7,5.10‑10 | 6,3.10‑10 |
|  |  | M | 0,005 | 2,3.10‑09 | 5,0.10‑04 | 1,9.10‑09 | 1,1.10‑09 | 6,8.10‑10 | 5,1.10‑10 | 4,2.10‑10 |
|  |  | S | 0,005 | 2,6.10‑09 | 5,0.10‑04 | 2,2.10‑09 | 1,3.10‑09 | 8,3.10‑10 | 6,3.10‑10 | 5,2.10‑10 |
| Np‑236 | 1,15 105  r | F | 0,005 | 8,9.10‑06 | 5,0.10‑04 | 9,1.10‑06 | 7,2.10‑06 | 7,5.10‑06 | 7,9.10‑06 | 8,0.10‑06 |
|  |  | M | 0,005 | 3,0.10‑06 | 5,0.10‑04 | 3,1.10‑06 | 2,7.10‑06 | 2,7.10‑06 | 3,1.10‑06 | 3,2.10‑06 |
|  |  | S | 0,005 | 1,6.10‑06 | 5,0.10‑04 | 1,6.10‑06 | 1,3.10‑06 | 1,0.10‑06 | 1,0.10‑06 | 1,0.10‑06 |
| Np‑236 | 22,5 h | F | 0,005 | 2,8.10‑08 | 5,0.10‑04 | 2,6.10‑08 | 1,5.10‑08 | 1,1.10‑08 | 8,9.10‑09 | 9,0.10‑09 |
|  |  | M | 0,005 | 1,6.10‑08 | 5,0.10‑04 | 1,4.10‑08 | 8,9.10‑09 | 6,2.10‑09 | 5,6.10‑09 | 5,3.10‑09 |
|  |  | S | 0,005 | 1,6.10‑08 | 5,0.10‑04 | 1,3.10‑08 | 8,5.10‑09 | 5,7.10‑09 | 4,8.10‑09 | 4,2.10‑09 |
| Np‑237 | 2,14 106  r | F | 0,005 | 9,8.10‑05 | 5,0.10‑04 | 9,3.10‑05 | 6,0.10‑05 | 5,0.10‑05 | 4,7.10‑05 | 5,0.10‑05 |
|  |  | M | 0,005 | 4,4.10‑05 | 5,0.10‑04 | 4,0.10‑05 | 2,8.10‑05 | 2,2.10‑05 | 2,2.10‑05 | 2,3.10‑05 |
|  |  | S | 0,005 | 3,7.10‑05 | 5,0.10‑04 | 3,2.10‑05 | 2,1.10‑05 | 1,4.10‑05 | 1,3.10‑05 | 1,2.10‑05 |
| Np‑238 | 2,12 d | F | 0,005 | 9,0.10‑09 | 5,0.10‑04 | 7,9.10‑09 | 4,8.10‑09 | 3,7.10‑09 | 3,3.10‑09 | 3,5.10‑09 |
|  |  | M | 0,005 | 7,3.10‑09 | 5,0.10‑04 | 5,8.10‑09 | 3,4.10‑09 | 2,5.10‑09 | 2,2.10‑09 | 2,1.10‑09 |
|  |  | S | 0,005 | 8,1.10‑09 | 5,0.10‑04 | 6,2.10‑09 | 3,2.10‑09 | 2,1.10‑09 | 1,7.10‑09 | 1,5.10‑09 |
| Np‑239 | 2,36 d | F | 0,005 | 2,6.10‑09 | 5,0.10‑04 | 1,4.10‑09 | 6,3.10‑10 | 3,8.10‑10 | 2,1.10‑10 | 1,7.10‑10 |
|  |  | M | 0,005 | 5,9.10‑09 | 5,0.10‑04 | 4,2.10‑09 | 2,0.10‑09 | 1,4.10‑09 | 1,2.10‑09 | 9,3.10‑10 |
|  |  | S | 0,005 | 5,6.10‑09 | 5,0.10‑04 | 4,0.10‑09 | 2,2.10‑09 | 1,6.10‑09 | 1,3.10‑09 | 1,0.10‑09 |
| Np‑240 | 1,08 h | F | 0,005 | 3,6.10‑10 | 5,0.10‑04 | 2,6.10‑10 | 1,2.10‑10 | 7,7.10‑11 | 4,7.10‑11 | 4,0.10‑11 |
|  |  | M | 0,005 | 6,3.10‑10 | 5,0.10‑04 | 4,4.10‑10 | 2,2.10‑10 | 1,4.10‑10 | 1,0.10‑10 | 8,5.10‑11 |
|  |  | S | 0,005 | 6,5.10‑10 | 5,0.10‑04 | 4,6.10‑10 | 2,3.10‑10 | 1,5.10‑10 | 1,1.10‑10 | 9,0.10‑11 |
| **Plutónium** |  |  |  |  |  |  |  |  |  |  |
| Pu‑234 | 8,80 h | F | 0,005 | 3,0.10-8 | 5,0.10-4 | 2,0.10-8 | 9,8.10-9 | 5,7.10-9 | 3,6.10-9 | 3,0.10-9 |
|  |  | M | 0,005 | 7,8.10-8 | 5,0.10-4 | 5,9.10-8 | 3,7.10-8 | 2,8.10-8 | 2,6.10-8 | 2,1.10-8 |
|  |  | S | 1,0.10-4 | 8,7.10-8 | 1,0.10-5 | 6,6.10-8 | 4,2.10-8 | 3,1.10-8 | 3,0.10-8 | 2,4.10-8 |
| Pu‑235 | 0,422 h | F | 0,005 | 1,0.10-11 | 5,0.10-4 | 7,9.10-12 | 3,9.10-12 | 2,2.10-12 | 1,3.10-12 | 1,0.10-12 |
|  |  | M | 0,005 | 1,3.10-11 | 5,0.10-4 | 1,0.10-11 | 5,0.10-12 | 2,9.10-12 | 1,9.10-12 | 1,4.10-12 |
|  |  | S | 1,0.10-4 | 1,3.10-11 | 1,0.10-5 | 1,0.10-11 | 5,1.10-12 | 3,0.10-12 | 1,9.10-12 | 1,5.10-12 |
| Pu‑236 | 2,85 r | F | 0,005 | 1,0.10-4 | 5,0.10-4 | 9,5.10-5 | 6,1.10-5 | 4,4.10-5 | 3,7.10-5 | 4,0.10-5 |
|  |  | M | 0,005 | 4,8.10-5 | 5,0.10-4 | 4,3.10-5 | 2,9.10-5 | 2,1.10-5 | 1,9.10-5 | 2,0.10-5 |
|  |  | S | 1,0.10-4 | 3,6.10-5 | 1,0.10-5 | 3,1.10-5 | 2,0.10-5 | 1,4.10-5 | 1,2.10-5 | 1,0.10-5 |
| Pu‑237 | 45,3 d | F | 0,005 | 2,2.10-9 | 5,0.10-4 | 1,6.10-9 | 7,9.10-10 | 4,8.10-10 | 2,9.10-10 | 2,6.10-10 |
|  |  | M | 0,005 | 1,9.10-9 | 5,0.10-4 | 1,4.10-9 | 8,2.10-10 | 5,4.10-10 | 4,3.10-10 | 3,5.10-10 |
|  |  | S | 1,0.10-4 | 2,0.10-9 | 1,0.10-5 | 1,5.10-9 | 8,8.10-10 | 5,9.10-10 | 4,8.10-10 | 3,9.10-10 |
| Pu‑238 | 87,7 r | F | 0,005 | 2,0.10-4 | 5,0.10-4 | 1,9.10-4 | 1,4.10-4 | 1,1.10-4 | 1,0.10-4 | 1,1.10-4 |
|  |  | M | 0,005 | 7,8.10-5 | 5,0.10-4 | 7,4.10-5 | 5,6.10-5 | 4,4.10-5 | 4,3.10-5 | 4,6.10-5 |
|  |  | S | 1,0.10-4 | 4,5.10-5 | 1,0.10-5 | 4,0.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Pu‑239 | 2,41 104  r | F | 0,005 | 2,1.10-4 | 5,0.10-4 | 2,0.10-4 | 1,5.10-4 | 1,2.10-4 | 1,1.10-4 | 1,2.10-4 |
|  |  | M | 0,005 | 8,0.10-5 | 5,0.10-4 | 7,7.10-5 | 6,0.10-5 | 4,8.10-5 | 4,7.10-5 | 5,0.10-5 |
|  |  | S | 1,0.10-4 | 4,3.10-5 | 1,0.10-5 | 3,9.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Pu‑240 | 6,54 103  r | F | 0,005 | 2,1.10-4 | 5,0.10-4 | 2,0.10-4 | 1,5.10-4 | 1,2.10-4 | 1,1.10-4 | 1,2.10-4 |
|  |  | M | 0,005 | 8,0.10-5 | 5,0.10-4 | 7,7.10-5 | 6,0.10-5 | 4,8.10-5 | 4,7.10-5 | 5,0.10-5 |
|  |  | S | 1,0.10-4 | 4,3.10-5 | 1,0.10-5 | 3,9.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Pu‑241 | 14,4 r | F | 0,005 | 2,8.10-6 | 5,0.10-4 | 2,9.10-6 | 2,6.10-6 | 2,4.10-6 | 2,2.10-6 | 2,3.10-6 |
|  |  | M | 0,005 | 9,1.10-7 | 5,0.10-4 | 9,7.10-7 | 9,2.10-7 | 8,3.10-7 | 8,6.10-7 | 9,0.10-7 |
|  |  | S | 1,0.10-4 | 2,2.10-7 | 1,0.10-5 | 2,3.10-7 | 2,0.10-7 | 1,7.10-7 | 1,7.10-7 | 1,7.10-7 |
| Pu‑242 | 3,76 105  r | F | 0,005 | 2,0.10-4 | 5,0.10-4 | 1,9.10-4 | 1,4.10-4 | 1,2.10-4 | 1,1.10-4 | 1,1.10-4 |
|  |  | M | 0,005 | 7,6.10-5 | 5,0.10-4 | 7,3.10-5 | 5,7.10-5 | 4,5.10-5 | 4,5.10-5 | 4,8.10-5 |
|  |  | S | 1,0.10-4 | 4,0.10-5 | 1,0.10-5 | 3,6.10-5 | 2,5.10-5 | 1,7.10-5 | 1,6.10-5 | 1,5.10-5 |
| Pu‑243 | 4,95 h | F | 0,005 | 2,7.10-10 | 5,0.10-4 | 1,9.10-10 | 8,8.10-11 | 5,7.10-11 | 3,5.10-11 | 3,2.10-11 |
|  |  | M | 0,005 | 5,6.10-10 | 5,0.10-4 | 3,9.10-10 | 1,9.10-10 | 1,3.10-10 | 8,7.10-11 | 8,3.10-11 |
|  |  | S | 1,0.10-4 | 6,0.10-10 | 1,0.10-5 | 4,1.10-10 | 2,0.10-10 | 1,4.10-10 | 9,2.10-11 | 8,6.10-11 |
| Pu‑244 | 8,26 107  r | F | 0,005 | 2,0.10-4 | 5,0.10-4 | 1,9.10-4 | 1,4.10-4 | 1,2.10-4 | 1,1.10-4 | 1,1.10-4 |
|  |  | M | 0,005 | 7,4.10-5 | 5,0.10-4 | 7,2.10-5 | 5,6.10-5 | 4,5.10-5 | 4,4.10-5 | 4,7.10-5 |
|  |  | S | 1,0.10-4 | 3,9.10-5 | 1,0.10-5 | 3,5.10-5 | 2,4.10-5 | 1,7.10-5 | 1,5.10-5 | 1,5.10-5 |
| Pu‑245 | 10,5 h | F | 0,005 | 1,8.10-9 | 5,0.10-4 | 1,3.10-9 | 5,6.10-10 | 3,5.10-10 | 1,9.10-10 | 1,6.10-10 |
|  |  | M | 0,005 | 3,6.10-9 | 5,0.10-4 | 2,5.10-9 | 1,2.10-9 | 8,0.10-10 | 5,0.10-10 | 4,0.10-10 |
|  |  | S | 1,0.10-4 | 3,8.10-9 | 1,0.10-5 | 2,6.10-9 | 1,3.10-9 | 8,5.10-10 | 5,4.10-10 | 4,3.10-10 |
| Pu‑246 | 10,9 d | F | 0,005 | 2,0.10-8 | 5,0.10-4 | 1,4.10-8 | 7,0.10-9 | 4,4.10-9 | 2,8.10-9 | 2,5.10-9 |
|  |  | M | 0,005 | 3,5.10-8 | 5,0.10-4 | 2,6.10-8 | 1,5.10-8 | 1,1.10-8 | 9,1.10-9 | 7,4.10-9 |
|  |  | S | 1,0.10-4 | 3,8.10-8 | 1,0.10-5 | 2,8.10-8 | 1,6.10-8 | 1,2.10-8 | 1,0.10-8 | 8,0.10-9 |
| **Amerícium** |  |  |  |  |  |  |  |  |  |  |
| Am‑237 | 1,22 h | F | 0,005 | 9,8.10-11 | 5,0.10-4 | 7,3.10-11 | 3,5.10-11 | 2,2.10-11 | 1,3.10-11 | 1,1.10-11 |
|  |  | M | 0,005 | 1,7.10-10 | 5,0.10-4 | 1,2.10-10 | 6,2.10-11 | 4,1.10-11 | 3,0.10-11 | 2,5.10-11 |
|  |  | S | 0,005 | 1,7.10-10 | 5,0.10-4 | 1,3.10-10 | 6,5.10-11 | 4,3.10-11 | 3,2.10-11 | 2,6.10-11 |
| Am‑238 | 1,63 h | F | 0,005 | 4,1.10-10 | 5,0.10-4 | 3,8.10-10 | 2,5.10-10 | 2,0.10-10 | 1,8.10-10 | 1,9.10-10 |
|  |  | M | 0,005 | 3,1.10-10 | 5,0.10-4 | 2,6.10-10 | 1,3.10-10 | 9,6.10-11 | 8,8.10-11 | 9,0.10-11 |
|  |  | S | 0,005 | 2,7.10-10 | 5,0.10-4 | 2,2.10-10 | 1,3.10-10 | 8,2.10-11 | 6,1.10-11 | 5,4.10-11 |
| Am‑239 | 11,9 h | F | 0,005 | 8,1.10-10 | 5,0.10-4 | 5,8.10-10 | 2,6.10-10 | 1,6.10-10 | 9,1.10-11 | 7,6.10-11 |
|  |  | M | 0,005 | 1,5.10-9 | 5,0.10-4 | 1,1.10-9 | 5,6.10-10 | 3,7.10-10 | 2,7.10-10 | 2,2.10-10 |
|  |  | S | 0,005 | 1,6.10-9 | 5,0.10-4 | 1,1.10-9 | 5,9.10-10 | 4,0.10-10 | 2,5.10-10 | 2,4.10-10 |
| Am‑240 | 2,12 d | F | 0,005 | 2,0.10-9 | 5,0.10-4 | 1,7.10-9 | 8,8.10-10 | 5,7.10-10 | 3,6.10-10 | 2,3.10-10 |
|  |  | M | 0,005 | 2,9.10-9 | 5,0.10-4 | 2,2.10-9 | 1,2.10-9 | 7,7.10-10 | 5,3.10-10 | 4,3.10-10 |
|  |  | S | 0,005 | 3,0.10-9 | 5,0.10-4 | 2,3.10-9 | 1,2.10-9 | 7,8.10-10 | 5,3.10-10 | 4,3.10-10 |
| Am‑241 | 4,32 102  r | F | 0,005 | 1,8.10-4 | 5,0.10-4 | 1,8.10-4 | 1,2.10-4 | 1,0.10-4 | 9,2.10-5 | 9,6.10-5 |
|  |  | M | 0,005 | 7,3.10-5 | 5,0.10-4 | 6,9.10-5 | 5,1.10-5 | 4,0.10-5 | 4,0.10-5 | 4,2.10-5 |
|  |  | S | 0,005 | 4,6.10-5 | 5,0.10-4 | 4,0.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Am‑242 | 16,0 h | F | 0,005 | 9,2.10-8 | 5,0.10-4 | 7,1.10-8 | 3,5.10-8 | 2,1.10-8 | 1,4.10-8 | 1,1.10-8 |
|  |  | M | 0,005 | 7,6.10-8 | 5,0.10-4 | 5,9.10-8 | 3,6.10-8 | 2,4.10-8 | 2,1.10-8 | 1,7.10-8 |
|  |  | S | 0,005 | 8,0.10-8 | 5,0.10-4 | 6,2.10-8 | 3,9.10-8 | 2,7.10-8 | 2,4.10-8 | 2,0.10-8 |
| Am‑242m | 1,52 102  r | F | 0,005 | 1,6.10-4 | 5,0.10-4 | 1,5.10-4 | 1,1.10-4 | 9,4.10-5 | 8,8.10-5 | 9,2.10-5 |
|  |  | M | 0,005 | 5,2.10-5 | 5,0.10-4 | 5,3.10-5 | 4,1.10-5 | 3,4.10-5 | 3,5.10-5 | 3,7.10-5 |
|  |  | S | 0,005 | 2,5.10-5 | 5,0.10-4 | 2,4.10-5 | 1,7.10-5 | 1,2.10-5 | 1,1.10-5 | 1,1.10-5 |
| Am‑243 | 7,38 103  r | F | 0,005 | 1,8.10-4 | 5,0.10-4 | 1,7.10-4 | 1,2.10-4 | 1,0.10-4 | 9,1.10-5 | 9,6.10-5 |
|  |  | M | 0,005 | 7,2.10-5 | 5,0.10-4 | 6,8.10-5 | 5,0.10-5 | 4,0.10-5 | 4,0.10-5 | 4,1.10-5 |
|  |  | S | 0,005 | 4,4.10-5 | 5,0.10-4 | 3,9.10-5 | 2,6.10-5 | 1,8.10-5 | 1,6.10-5 | 1,5.10-5 |
| Am‑244 | 10,1 h | F | 0,005 | 1,0.10-8 | 5,0.10-4 | 9,2.10-9 | 5,6.10-9 | 4,1.10-9 | 3,5.10-9 | 3,7.10-9 |
|  |  | M | 0,005 | 6,0.10-9 | 5,0.10-4 | 5,0.10-9 | 3,2.10-9 | 2,2.10-9 | 2,0.10-9 | 2,0.10-9 |
|  |  | S | 0,005 | 6,1.10-9 | 5,0.10-4 | 4,8.10-9 | 2,4.10-9 | 1,6.10-9 | 1,4.10-9 | 1,2.10-9 |
| Am‑244m | 0,433 h | F | 0,005 | 4,6.10-10 | 5,0.10-4 | 4,0.10-10 | 2,4.10-10 | 1,8.10-10 | 1,5.10-10 | 1,6.10-10 |
|  |  | M | 0,005 | 3,3.10-10 | 5,0.10-4 | 2,1.10-10 | 1,3.10-10 | 9,2.10-11 | 8,3.10-11 | 8,4.10-11 |
|  |  | S | 0,005 | 3,0.10-10 | 5,0.10-4 | 2,2.10-10 | 1,2.10-10 | 8,1.10-11 | 5,5.10-11 | 5,7.10-11 |
| Am‑245 | 2,05 h | F | 0,005 | 2,1.10-10 | 5,0.10-4 | 1,4.10-10 | 6,2.10-11 | 4,0.10-11 | 2,4.10-11 | 2,1.10-11 |
|  |  | M | 0,005 | 3,9.10-10 | 5,0.10-4 | 2,6.10-10 | 1,3.10-10 | 8,7.10-11 | 6,4.10-11 | 5,3.10-11 |
|  |  | S | 0,005 | 4,1.10-10 | 5,0.10-4 | 2,8.10-10 | 1,3.10-10 | 9,2.10-11 | 6,8.10-11 | 5,6.10-11 |
| Am‑246 | 0,650 h | F | 0,005 | 3,0.10-10 | 5,0.10-4 | 2,0.10-10 | 9,3.10-11 | 6,1.10-11 | 3,8.10-11 | 3,3.10-11 |
|  |  | M | 0,005 | 5,0.10-10 | 5,0.10-4 | 3,4.10-10 | 1,6.10-10 | 1,1.10-10 | 7,9.10-11 | 6,6.10-11 |
|  |  | S | 0,005 | 5,3.10-10 | 5,0.10-4 | 3,6.10-10 | 1,7.10-10 | 1,2.10-10 | 8,3.10-11 | 6,9.10-11 |
| Am‑246m | 0,417 h | F | 0,005 | 1,3.10-10 | 5,0.10-4 | 8,9.10-11 | 4,2.10-11 | 2,6.10-11 | 1,6.10-11 | 1,4.10-11 |
|  |  | M | 0,005 | 1,9.10-10 | 5,0.10-4 | 1,3.10-10 | 6,1.10-11 | 4,0.10-11 | 2,6.10-11 | 2,2.10-11 |
|  |  | S | 0,005 | 2,0.10-10 | 5,0.10-4 | 1,4.10-10 | 6,4.10-11 | 4,1.10-11 | 2,7.10-11 | 2,3.10-11 |
| **Curium** |  |  |  |  |  |  |  |  |  |  |
| Cm‑238 | 2,40 h | F | 0,005 | 7,7.10-9 | 5,0.10-4 | 5,4.10-9 | 2,6.10-9 | 1,8.10-9 | 9,2.10-10 | 7,8.10-10 |
|  |  | M | 0,005 | 2,1.10-8 | 5,0.10-4 | 1,5.10-8 | 7,9.10-9 | 5,9.10-9 | 5,6.10-9 | 4,5.10-9 |
|  |  | S | 0,005 | 2,2.10-8 | 5,0.10-4 | 1,6.10-8 | 8,6.10-9 | 6,4.10-9 | 6,1.10-9 | 4,9.10-9 |
| Cm‑240 | 27,0 d | F | 0,005 | 8,3.10-6 | 5,0.10-4 | 6,3.10-6 | 3,2.10-6 | 2,0.10-6 | 1,5.10-6 | 1,3.10-6 |
|  |  | M | 0,005 | 1,2.10-5 | 5,0.10-4 | 9,1.10-6 | 5,8.10-6 | 4,2.10-6 | 3,8.10-6 | 3,2.10-6 |
|  |  | S | 0,005 | 1,3.10-5 | 5,0.10-4 | 9,9.10-6 | 6,4.10-6 | 4,6.10-6 | 4,3.10-6 | 3,5.10-6 |
| Cm‑241 | 32,8 d | F | 0,005 | 1,1.10-7 | 5,0.10-4 | 8,9.10-8 | 4,9.10-8 | 3,5.10-8 | 2,8.10-8 | 2,7.10-8 |
|  |  | M | 0,005 | 1,3.10-7 | 5,0.10-4 | 1,0.10-7 | 6,6.10-8 | 4,8.10-8 | 4,4.10-8 | 3,7.10-8 |
|  |  | S | 0,005 | 1,4.10-7 | 5,0.10-4 | 1,1.10-7 | 6,9.10-8 | 4,9.10-8 | 4,5.10-8 | 3,7.10-8 |
| Cm‑242 | 163 d | F | 0,005 | 2,7.10-5 | 5,0.10-4 | 2,1.10-5 | 1,0.10-5 | 6,1.10-6 | 4,0.10-6 | 3,3.10-6 |
|  |  | M | 0,005 | 2,2.10-5 | 5,0.10-4 | 1,8.10-5 | 1,1.10-5 | 7,3.10-6 | 6,4.10-6 | 5,2.10-6 |
|  |  | S | 0,005 | 2,4.10-5 | 5,0.10-4 | 1,9.10-5 | 1,2.10-5 | 8,2.10-6 | 7,3.10-6 | 5,9.10-6 |
| Cm‑243 | 28,5 r | F | 0,005 | 1,6.10-4 | 5,0.10-4 | 1,5.10-4 | 9,5.10-5 | 7,3.10-5 | 6,5.10-5 | 6,9.10-5 |
|  |  | M | 0,005 | 6,7.10-5 | 5,0.10-4 | 6,1.10-5 | 4,2.10-5 | 3,1.10-5 | 3,0.10-5 | 3,1.10-5 |
|  |  | S | 0,005 | 4,6.10-5 | 5,0.10-4 | 4,0.10-5 | 2,6.10-5 | 1,8.10-5 | 1,6.10-5 | 1,5.10-5 |
| Cm‑244 | 18,1 r | F | 0,005 | 1,5.10-4 | 5,0.10-4 | 1,3.10-4 | 8,3.10-5 | 6,1.10-5 | 5,3.10-5 | 5,7.10-5 |
|  |  | M | 0,005 | 6,2.10-5 | 5,0.10-4 | 5,7.10-5 | 3,7.10-5 | 2,7.10-5 | 2,6.10-5 | 2,7.10-5 |
|  |  | S | 0,005 | 4,4.10-5 | 5,0.10-4 | 3,8.10-5 | 2,5.10-5 | 1,7.10-5 | 1,5.10-5 | 1,3.10-5 |
| Cm‑245 | 8,50 103  r | F | 0,005 | 1,9.10-4 | 5,0.10-4 | 1,8.10-4 | 1,2.10-4 | 1,0.10-4 | 9,4.10-5 | 9,9.10-5 |
|  |  | M | 0,005 | 7,3.10-5 | 5,0.10-4 | 6,9.10-5 | 5,1.10-5 | 4,1.10-5 | 4,1.10-5 | 4,2.10-5 |
|  |  | S | 0,005 | 4,5.10-5 | 5,0.10-4 | 4,0.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Cm‑246 | 4,73 103  r | F | 0,005 | 1,9.10-4 | 5,0.10-4 | 1,8.10-4 | 1,2.10-4 | 1,0.10-4 | 9,4.10-5 | 9,8.10-5 |
|  |  | M | 0,005 | 7,3.10-5 | 5,0.10-4 | 6,9.10-5 | 5,1.10-5 | 4,1.10-5 | 4,1.10-5 | 4,2.10-5 |
|  |  | S | 0,005 | 4,6.10-5 | 5,0.10-4 | 4,0.10-5 | 2,7.10-5 | 1,9.10-5 | 1,7.10-5 | 1,6.10-5 |
| Cm‑247 | 1,56 107  r | F | 0,005 | 1,7.10-4 | 5,0.10-4 | 1,6.10-4 | 1,1.10-4 | 9,4.10-5 | 8,6.10-5 | 9,0.10-5 |
|  |  | M | 0,005 | 6,7.10-5 | 5,0.10-4 | 6,3.10-5 | 4,7.10-5 | 3,7.10-5 | 3,7.10-5 | 3,9.10-5 |
|  |  | S | 0,005 | 4,1.10-5 | 5,0.10-4 | 3,6.10-5 | 2,4.10-5 | 1,7.10-5 | 1,5.10-5 | 1,4.10-5 |
| Cm‑248 | 3,39 105  r | F | 0,005 | 6,8.10-4 | 5,0.10-4 | 6,5.10-4 | 4,5.10-4 | 3,7.10-4 | 3,4.10-4 | 3,6.10-4 |
|  |  | M | 0,005 | 2,5.10-4 | 5,0.10-4 | 2,4.10-4 | 1,8.10-4 | 1,4.10-4 | 1,4.10-4 | 1,5.10-4 |
|  |  | S | 0,005 | 1,4.10-4 | 5,0.10-4 | 1,2.10-4 | 8,2.10-5 | 5,6.10-5 | 5,0.10-5 | 4,8.10-5 |
| Cm‑249 | 1,07 h | F | 0,005 | 1,8.10-10 | 5,0.10-4 | 9,8.10-11 | 5,9.10-11 | 4,6.10-11 | 4,0.10-11 | 4,0.10-11 |
|  |  | M | 0,005 | 2,4.10-10 | 5,0.10-4 | 1,6.10-10 | 8,2.10-11 | 5,8.10-11 | 3,7.10-11 | 3,3.10-11 |
|  |  | S | 0,005 | 2,4.10-10 | 5,0.10-4 | 1,6.10-10 | 7,8.10-11 | 5,3.10-11 | 3,9.10-11 | 3,3.10-11 |
| Cm‑250 | 6,90 103  r | F | 0,005 | 3,9.10-3 | 5,0.10-4 | 3,7.10-3 | 2,6.10-3 | 2,1.10-3 | 2,0.10-3 | 2,1.10-3 |
|  |  | M | 0,005 | 1,4.10-3 | 5,0.10-4 | 1,3.10-3 | 9,9.10-4 | 7,9.10-4 | 7,9.10-4 | 8,4.10-4 |
|  |  | S | 0,005 | 7,2.10-4 | 5,0.10-4 | 6,5.10-4 | 4,4.10-4 | 3,0.10-4 | 2,7.10-4 | 2,6.10-4 |
| **Berkélium** |  |  |  |  |  |  |  |  |  |  |
| Bk‑245 | 4,94 d | M | 0,005 | 8,8.10-9 | 5,0.10-4 | 6,6.10-9 | 4,0.10-9 | 2,9.10-9 | 2,6.10-9 | 2,1.10-9 |
| Bk‑246 | 1,83 d | M | 0,005 | 2,1.10-9 | 5,0.10-4 | 1,7.10-9 | 9,3.10-10 | 6,0.10-10 | 4,0.10-10 | 3,3.10-10 |
| Bk‑247 | 1,38 103  r | M | 0,005 | 1,5.10-4 | 5,0.10-4 | 1,5.10-4 | 1,1.10-4 | 7,9.10-5 | 7,2.10-5 | 6,9.10-5 |
| Bk‑249 | 320 d | M | 0,005 | 3,3.10-7 | 5,0.10-4 | 3,3.10-7 | 2,4.10-7 | 1,8.10-7 | 1,6.10-7 | 1,6.10-7 |
| Bk‑250 | 3,22 h | M | 0,005 | 3,4.10-9 | 5,0.10-4 | 3,1.10-9 | 2,0.10-9 | 1,3.10-9 | 1,1.10-9 | 1,0.10-9 |
| **Kalifornium** |  |  |  |  |  |  |  |  |  |  |
| Cf‑244 | 0,323 h | M | 0,005 | 7,6.10-8 | 5,0.10-4 | 5,4.10-8 | 2,8.10-8 | 2,0.10-8 | 1,6.10-8 | 1,4.10-8 |
| Cf‑246 | 1,49 d | M | 0,005 | 1,7.10-6 | 5,0.10-4 | 1,3.10-6 | 8,3.10-7 | 6,1.10-7 | 5,7.10-7 | 4,5.10-7 |
| Cf‑248 | 334 d | M | 0,005 | 3,8.10-5 | 5,0.10-4 | 3,2.10-5 | 2,1.10-5 | 1,4.10-5 | 1,0.10-5 | 8,8.10-6 |
| Cf‑249 | 3,50 102  r | M | 0,005 | 1,6.10-4 | 5,0.10-4 | 1,5.10-4 | 1,1.10-4 | 8,0.10-5 | 7,2.10-5 | 7,0.10-5 |
| Cf‑250 | 13,1 r | M | 0,005 | 1,1.10-4 | 5,0.10-4 | 9,8.10-5 | 6,6.10-5 | 4,2.10-5 | 3,5.10-5 | 3,4.10-5 |
| Cf‑251 | 8,98 102  r | M | 0,005 | 1,6.10-4 | 5,0.10-4 | 1,5.10-4 | 1,1.10-4 | 8,1.10-5 | 7,3.10-5 | 7,1.10-5 |
| Cf‑252 | 2,64 r | M | 0,005 | 9,7.10-5 | 5,0.10-4 | 8,7.10-5 | 5,6.10-5 | 3,2.10-5 | 2,2.10-5 | 2,0.10-5 |
| Cf‑253 | 17,8 d | M | 0,005 | 5,4.10-6 | 5,0.10-4 | 4,2.10-6 | 2,6.10-6 | 1,9.10-6 | 1,7.10-6 | 1,3.10-6 |
| Cf‑254 | 60,5 d | M | 0,005 | 2,5.10-4 | 5,0.10-4 | 1,9.10-4 | 1,1.10-4 | 7,0.10-5 | 4,8.10-5 | 4,1.10-5 |
| **Einsteinium** |  |  |  |  |  |  |  |  |  |  |
| Es‑250 | 2,10 h | M | 0,005 | 2,0.10-9 | 5,0.10-4 | 1,8.10-9 | 1,2.10-9 | 7,8.10-10 | 6,4.10-10 | 6,3.10-10 |
| Es‑251 | 1,38 d | M | 0,005 | 7,9.10-9 | 5,0.10-4 | 6,0.10-9 | 3,9.10-9 | 2,8.10-9 | 2,6.10-9 | 2,1.10-9 |
| Es‑253 | 20,5 d | M | 0,005 | 1,1.10-5 | 5,0.10-4 | 8,0.10-6 | 5,1.10-6 | 3,7.10-6 | 3,4.10-6 | 2,7.10-6 |
| Es‑254 | 276 d | M | 0,005 | 3,7.10-5 | 5,0.10-4 | 3,1.10-5 | 2,0.10-5 | 1,3.10-5 | 1,0.10-5 | 8,6.10-6 |
| Es‑254m | 1,64 d | M | 0,005 | 1,7.10-6 | 5,0.10-4 | 1,3.10-6 | 8,4.10-7 | 6,3.10-7 | 5,9.10-7 | 4,7.10-7 |
| **Fermium** |  |  |  |  |  |  |  |  |  |  |
| Fm‑252 | 22,7 h | M | 0,005 | 1,2.10-6 | 5,0.10-4 | 9,0.10-7 | 5,8.10-7 | 4,3.10-7 | 4,0.10-7 | 3,2.10-7 |
| Fm‑253 | 3,00 d | M | 0,005 | 1,5.10-6 | 5,0.10-4 | 1,2.10-6 | 7,3.10-7 | 5,4.10-7 | 5,0.10-7 | 4,0.10-7 |
| Fm‑254 | 3,24 h | M | 0,005 | 3,2.10-7 | 5,0.10-4 | 2,3.10-7 | 1,3.10-7 | 9,8.10-8 | 7,6.10-8 | 6,1.10-8 |
| Fm‑255 | 20,1 h | M | 0,005 | 1,2.10-6 | 5,0.10-4 | 7,3.10-7 | 4,7.10-7 | 3,5.10-7 | 3,4.10-7 | 2,7.10-7 |
| Fm‑257 | 101 d | M | 0,005 | 3,3.10-5 | 5,0.10-4 | 2,6.10-5 | 1,6.10-5 | 1,1.10-5 | 8,8.10-6 | 7,1.10-6 |
| **mendelevium** |  |  |  |  |  |  |  |  |  |  |
| Md‑257 | 5,20 h | M | 0,005 | 1,0.10-7 | 5,0.10-4 | 8,2.10-8 | 5,1.10-8 | 3,6.10-8 | 3,1.10-8 | 2,5.10-8 |
| Md‑258 | 55,0 d | M | 0,005 | 2,4.10-5 | 5,0.10-4 | 1,9.10-5 | 1,2.10-5 | 8,6.10-6 | 7,3.10-6 | 5,9.10-6 |

Poznámka:

Konverzné faktory hinh pre príjem inhaláciou sú uvedené v závislosti na type absorpcie v pľúcach.

Príslušné parametre pre jednotlivé chemické látky a zlúčeniny sú uvedené v tabuľke č. 3 tejto prílohy.

U bližšie neidentifikovaných rádionuklidov a chemických foriem rádioaktívnych látok alebo vlastností vdychovaného aerosólu sa aktivita prisudzuje tým rádionuklidom a ich formám, alebo takému aerosólu, pre ktorý je v tabuľke stanovený najvyšší konverzný faktor.