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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | | | | | | | | | | |  | | | | | | | | | | 18 |
| 1 **H** 1.0079 | 2 |  | | | | | | | | | | 13 | | 14 | | 15 | | 16 | | 17 | | 2 **He** 4.0026 |
| 3 **Li** 6.941 | 4 **Be** 9.0122 |  | | | | | | | | | | 5 **B** 10.811 | | 6 **C** 12.011 | | 7 **N** 14.007 | | 8 **O** 15.999 | | 9 **F** 18.998 | | 10 **Ne** 20.180 |
| 11 **Na** 22.990 | 12 **Mg** 24.305 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 **Al** 26.982 | | 14 **Si** 28.086 | | 15 **P** 30.974 | | 16 **S** 32.065 | | 17 **Cl** 35.453 | | 18 **Ar** 39.948 |
| 19 **K** 39.098 | 20 **Ca** 40.078 | 21 **Sc** 44.956 | 22 **Ti** 47.867 | 23 **V** 50.942 | 24 **Cr** 51.996 | 25 **Mn** 54.938 | 26 **Fe** 55.845 | 27 **Co** 58.933 | 28 **Ni** 58.693 | 29 **Cu** 63.546 | 30 **Zn** 65.38 | 31 **Ga** 69.723 | | 32 **Ge** 72.64 | | 33 **As** 74.922 | | 34 **Se** 78.96 | | 35 **Br** 79.904 | | 36 **Kr** 83.798 |
| 37 **Rb** 85.468 | 38 **Sr** 87.62 | 39 **Y** 88.906 | 40 **Zr** 91.224 | 41 **Nb** 92.906 | 42 **Mo** 95.96 | 43 **Tc** - | 44 **Ru** 101.07 | 45 **Rh** 102.91 | 46 **Pd** 106.42 | 47 **Ag** 107.87 | 48 **Cd** 112.41 | 49 **In** 114.82 | | 50 **Sn** 118.71 | | 51 **Sb** 121.76 | | 52 **Te** 127.60 | | 53 **I** 126.90 | | 54 **Xe** 131.29 |
| 55 **Cs** 132.91 | 56 **Ba** 137.33 | 57-71 | 72 **Hf** 178.49 | 73 **Ta** 180.95 | 74 **W** 183.84 | 75 **Re** 186.21 | 76 **Os** 190.23 | 77 **Ir** 192.22 | 78 **Pt** 195.08 | 79 **Au** 196.97 | 80 **Hg** 200.59 | 81 **Tl** 204.38 | | 82 **Pb** 207.2 | | 83 **Bi** 208.98 | | 84 **Po** - | | 85 **At** - | | 86 **Rn** - |
| 87 **Fr** - | 88 **Ra** - | 89-103 | 104 **Rf** - | 105 **Db** - | 106 **Sg** - | 107 **Bh** - | 108 **Hs** - | 109 **Mt** - | 110 **Ds** - | 111 **Rg** - |  |  | | | | | | | | | |  |
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|  | |  | 57 **La** 138.91 | 58 **Ce** 140.12 | 59 **Pr** 140.91 | 60 **Nd** 144.24 | 61 **Pm** - | 62 **Sm** 150.36 | 63 **Eu** 151.96 | 64 **Gd** 157.25 | 65 **Tb** 158.93 | 66 **Dy** 162.50 | | 67 **Ho** 164.93 | | 68 **Er** 167.26 | | 69 **Tm** 168.93 | | 70 **Yb** 173.05 | | 71 **Lu** 174.97 |
|  | 89 **Ac** - | 90 **Th** 232.04 | 91 **Pa** 231.04 | 92 **U** 238.03 | 93 **Np** - | 94 **Pu** - | 95 **Am** - | 96 **Cm** - | 97 **Bk** - | 98 **Cf** - | | 99 **Es** - | | 100 **Fm** - | | 101 **Md** - | | 102 **No** - | | 103 **Lr** - |