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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1  **H**  1.0079 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  **He**  4.0026 |
| 3  **Li**  6.941 | 4  **Be**  9.0123 |  |  |  |  |  |  |  |  |  |  | 5  **B**  10.81 | 6  **C**  12.011 | 7  **N**  14.007 | 8  **O**  15.999 | 9  **F**  18.998 | 10  **Ne**  20.179 |
| 11  **Na**  22.990 | 12  **Mg**  24.305 |  |  |  |  |  |  |  |  |  |  | 13  **Al**  26.982 | 14  **Si**  28.085 | 15  **P**  30.974 | 16  **S**  32.06 | 17  **Cl**  35.453 | 18  **Ar**  39.948 |
| 19  **K**  39.089 | 20  **Ca**  40.08 | 21  **Sc**  44.956 | 22  **Ti**  47.88 | 23  **V**  50.942 | 24  **Cr**  51.996 | 25  **Mn**  54.938 | 26  **Fe**  55.847 | 27  **Co**  58.933 | 28  **Ni**  58.69 | 29  **Cu**  63.546 | 30  **Zn**  65.38 | 31  **Ga**  69.72 | 32  **Ge**  72.59 | 33  **As**  74.92 | 34  **Se**  78.96 | 35  **Br**  79.904 | 36  **Kr**  83.80 |
| 37  **Rb**  85.468 | 38  **Sr**  87.62 | 39  **Y**  88.91 | 40  **Zr**  91.224 | 41  **Nb**  92.906 | 42  **Mo**  95.94 | 43  **Tc**  (98) | 44  **Ru**  101.07 | 45  **Rh**  102.906 | 46  **Pd**  106.42 | 47  **Ag**  107.87 | 48  **Cd**  112.411 | 49  **In**  114.82 | 50  **Sn**  118.69 | 51  **Sb**  121.75 | 52  **Te**  127.60 | 53  **I**  126.91 | 54  **Xe**  131.29 |
| 55  **Cs**  132.91 | 56  **Ba**  137.33 | 57  **La**  138.91 | 72  **Hf**  178.49 | 73  **Ta**  180.95 | 74  **W**  183.85 | 75  **Re**  186.207 | 76  **Os**  190.2 | 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**  (209) | 85  **At**  (210) | 86  **Rn**  (222) |
| 87  **Fr**  (223) | 88  **Ra**  226.025 | 89  **Ac**  (227) | 104  **Rf**  (261) | 105  **Db**  (262) | 106  **Sg**  (263) | 107  **Bh**  (262) | 108  **Hs**  (265) | 109  **Mt**  (266) | 110  **Ds**  (281.16) | 111  **Rg**  (280.16) | 112  **Cn**  (285.17) | 113  **Nh**  (284.18) | 114  **Fl**  (289.19) | 115  **Mc**  (288.19) | 116  **Lv**  (293) | 117  **Ts**  (294) | 118  **Og**  (294) |

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| 58  **Ce**  140.12 | 59  **Pr**  140.91 | 60  **Nd**  144.24 | 61  **Pm**  (145) | 62  **Sm**  150.36 | 63  **Eu**  151.97 | 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**  173.04 | 71  **Lu**  174.97 |
| 90  **Th**  232.04 | 91  **Pa**  231.04 | 92  **U**  238.03 | 93  **Np**  (237) | 94  **Pu**  (244) | 95  **Am**  (243) | 96  **Cm**  (247) | 97  **Bk**  (247) | 98  **Cf**  (251) | 99  **Es**  (252) | 100  **Fm**  (257) | 101  **Md**  (258) | 102  **No**  (259) | 103  **Lr**  (260) |