

List of the Elements with Their Symbols and Atomic Masses\*

| Element      | Symbol | Atomic Number | Atomic Mass <sup>†</sup> | Element       | Symbol | Atomic Number | Atomic Mass <sup>†</sup> |
|--------------|--------|---------------|--------------------------|---------------|--------|---------------|--------------------------|
| Actinium     | Ac     | 89            | (227)                    | Mendelevium   | Md     | 101           | (258)                    |
| Aluminum     | Al     | 13            | 26.98                    | Mercury       | Hg     | 80            | 200.6                    |
| Americium    | Am     | 95            | (243)                    | Molybdenum    | Mo     | 42            | 95.94                    |
| Antimony     | Sb     | 51            | 121.8                    | Neodymium     | Nd     | 60            | 144.2                    |
| Argon        | Ar     | 18            | 39.95                    | Neon          | Ne     | 10            | 20.18                    |
| Arsenic      | As     | 33            | 74.92                    | Neptunium     | Np     | 93            | (237)                    |
| Astatine     | At     | 85            | (210)                    | Nickel        | Ni     | 28            | 58.69                    |
| Barium       | Ba     | 56            | 137.3                    | Niobium       | Nb     | 41            | 92.91                    |
| Berkelium    | Bk     | 97            | (247)                    | Nitrogen      | N      | 7             | 14.01                    |
| Beryllium    | Be     | 4             | 9.012                    | Nobelium      | No     | 102           | (259)                    |
| Bismuth      | Bi     | 83            | 209.0                    | Osmium        | Os     | 76            | 190.2                    |
| Bohrium      | Bh     | 107           | (264)                    | Oxygen        | O      | 8             | 16.00                    |
| Boron        | B      | 5             | 10.81                    | Palladium     | Pd     | 46            | 106.4                    |
| Bromine      | Br     | 35            | 79.90                    | Phosphorus    | P      | 15            | 30.97                    |
| Cadmium      | Cd     | 48            | 112.4                    | Platinum      | Pt     | 78            | 195.1                    |
| Calcium      | Ca     | 20            | 40.08                    | Plutonium     | Pu     | 94            | (244)                    |
| Californium  | Cf     | 98            | (251)                    | Polonium      | Po     | 84            | (210)                    |
| Carbon       | C      | 6             | 12.01                    | Potassium     | K      | 19            | 39.10                    |
| Cerium       | Ce     | 58            | 140.1                    | Praseodymium  | Pr     | 59            | 140.9                    |
| Cesium       | Cs     | 55            | 132.9                    | Promethium    | Pm     | 61            | (147)                    |
| Chlorine     | Cl     | 17            | 35.45                    | Protactinium  | Pa     | 91            | (231)                    |
| Chromium     | Cr     | 24            | 52.00                    | Radium        | Ra     | 88            | (226)                    |
| Cobalt       | Co     | 27            | 58.93                    | Radon         | Rn     | 86            | (222)                    |
| Copper       | Cu     | 29            | 63.55                    | Rhenium       | Re     | 75            | 186.2                    |
| Curium       | Cm     | 96            | (247)                    | Rhodium       | Rh     | 45            | 102.9                    |
| Darmstadtium | Ds     | 110           | (271)                    | Roentgenium   | Rg     | 111           | (280)                    |
| Dubnium      | Db     | 105           | (262)                    | Rubidium      | Rb     | 37            | 85.47                    |
| Dysprosium   | Dy     | 66            | 162.5                    | Ruthenium     | Ru     | 44            | 101.1                    |
| Einsteinium  | Es     | 99            | (252)                    | Rutherfordium | Rf     | 104           | (261)                    |
| Erbium       | Er     | 68            | 167.3                    | Samarium      | Sm     | 62            | 150.4                    |
| Europium     | Eu     | 63            | 152.0                    | Scandium      | Sc     | 21            | 44.96                    |
| Fermium      | Fm     | 100           | (257)                    | Seaborgium    | Sg     | 106           | (266)                    |
| Fluorine     | F      | 9             | 19.00                    | Selenium      | Se     | 34            | 78.96                    |
| Francium     | Fr     | 87            | (223)                    | Silicon       | Si     | 14            | 28.09                    |
| Gadolinium   | Gd     | 64            | 157.3                    | Silver        | Ag     | 47            | 107.9                    |
| Gallium      | Ga     | 31            | 69.72                    | Sodium        | Na     | 11            | 22.99                    |
| Germanium    | Ge     | 32            | 72.59                    | Strontium     | Sr     | 38            | 87.62                    |
| Gold         | Au     | 79            | 197.0                    | Sulfur        | S      | 16            | 32.07                    |
| Hafnium      | Hf     | 72            | 178.5                    | Tantalum      | Ta     | 73            | 180.9                    |
| Hassium      | Hs     | 108           | (269)                    | Technetium    | Tc     | 43            | (98)                     |
| Helium       | He     | 2             | 4.003                    | Tellurium     | Te     | 52            | 127.6                    |
| Holmium      | Ho     | 67            | 164.9                    | Terbium       | Tb     | 65            | 158.9                    |
| Hydrogen     | H      | 1             | 1.008                    | Thallium      | Tl     | 81            | 204.4                    |
| Indium       | In     | 49            | 114.8                    | Thorium       | Th     | 90            | 232.0                    |
| Iodine       | I      | 53            | 126.9                    | Thulium       | Tm     | 69            | 168.9                    |
| Iridium      | Ir     | 77            | 192.2                    | Tin           | Sn     | 50            | 118.7                    |
| Iron         | Fe     | 26            | 55.85                    | Titanium      | Ti     | 22            | 47.88                    |
| Krypton      | Kr     | 36            | 83.80                    | Tungsten      | W      | 74            | 183.9                    |
| Lanthanum    | La     | 57            | 138.9                    | Uranium       | U      | 92            | 238.0                    |
| Lawrencium   | Lr     | 103           | (262)                    | Vanadium      | V      | 23            | 50.94                    |
| Lead         | Pb     | 82            | 207.2                    | Xenon         | Xe     | 54            | 131.3                    |
| Lithium      | Li     | 3             | 6.941                    | Ytterbium     | Yb     | 70            | 173.0                    |
| Lutetium     | Lu     | 71            | 175.0                    | Yttrium       | Y      | 39            | 88.91                    |
| Magnesium    | Mg     | 12            | 24.31                    | Zinc          | Zn     | 30            | 65.39                    |
| Manganese    | Mn     | 25            | 54.94                    | Zirconium     | Zr     | 40            | 91.22                    |
| Meitnerium   | Mt     | 109           | (268)                    |               |        |               |                          |

\*These values are recommended by the International Union of Pure and Applied Chemistry (IUPAC).

†Values of atomic masses for radioactive elements are given in parentheses.