

Abundance of Elements in Earth's Crust

Abundance values in mg/kg

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------------------|---|------------------------------------|--------------------------------------|--|--|--|--|---|--|-------------------------------------|-------------------------------------|--|--|-----------------------------------|--|---|--|--|---|------------------------------------|---|
| 1 H 1.40 × 10 ³ Hydrogen | | | | | | | | | | | | | | | | | 2 He 8 × 10 ⁻³ Helium | | | | | | |
| 3 Li 20 Lithium | 4 Be 2.8 Beryllium | | | | | | | | | | | | | | | | | 5 B 10 Boron | 6 C 200 Carbon | 7 N 19 Nitrogen | 8 O 4.61 × 10 ⁵ Oxygen | 9 F 585 Fluorine | 10 Ne 5 × 10 ⁻³ Neon |
| 11 Na 2.36 × 10 ⁴ Sodium | 12 Mg 2.33 × 10 ⁴ Magnesium | | | | | | | | | | | | | | | | | 13 Al 8.23 × 10 ⁴ Aluminum | 14 Si 2.82 × 10 ⁵ Silicon | 15 P 1.05 × 10 ³ Phosphorus | 16 S 350 Sulfur | 17 Cl 145 Chlorine | 18 Ar 3.5 Argon |
| 19 K 2.09 × 10 ⁴ Potassium | 20 Ca 4.15 × 10 ⁴ Calcium | 21 Sc 22 Scandium | 22 Ti 5.56 × 10 ³ Titanium | 23 V 120 Vanadium | 24 Cr 102 Chromium | 25 Mn 950 Manganese | 26 Fe 5.63 × 10 ⁴ Iron | 27 Co 25 Cobalt | 28 Ni 84 Nickel | 29 Cu 60 Copper | 30 Zn 70 Zinc | 31 Ga 19 Gallium | 32 Ge 1.5 Germanium | 33 As 1.8 Arsenic | 34 Se 5 × 10 ⁻² Selenium | 35 Br 2.4 Bromine | 36 Kr 1 × 10 ⁻⁴ Krypton | | | | | | |
| 37 Rb 90 Rubidium | 38 Sr 370 Strontium | 39 Y 33 Yttrium | 40 Zr 165 Zirconium | 41 Nb 20 Niobium | 42 Mo 1.2 Molybdenum | 43 Tc Technetium | 44 Ru 1 × 10 ⁻³ Ruthenium | 45 Rh 1 × 10 ⁻³ Rhodium | 46 Pd 1.5 × 10 ⁻² Palladium | 47 Ag 7.5 × 10 ⁻² Silver | 48 Cd 0.15 Cadmium | 49 In 0.25 Indium | 50 Sn 2.3 Tin | 51 Sb 0.2 Antimony | 52 Te 1 × 10 ⁻³ Tellurium | 53 I 0.45 Iodine | 54 Xe 3 × 10 ⁻⁵ Xenon | | | | | | |
| 55 Cs 3 Cesium | 56 Ba 425 Barium | 57-71 | 72 Hf 3.0 Hafnium | 73 Ta 2.0 Tantalum | 74 W 1.25 Tungsten | 75 Re 7 × 10 ⁻⁴ Rhenium | 76 Os 1.5 × 10 ⁻³ Osmium | 77 Ir 1 × 10 ⁻³ Iridium | 78 Pt 5 × 10 ⁻³ Platinum | 79 Au 4 × 10 ⁻³ Gold | 80 Hg 8.5 × 10 ⁻² Mercury | 81 Tl 0.85 Thallium | 82 Pb 14 Lead | 83 Bi 8.5 × 10 ⁻³ Bismuth | 84 Po 2 × 10 ⁻¹⁰ Polonium | 85 At Astatine | 86 Rn 4 × 10 ⁻¹³ Radon | | | | | | |
| 87 Fr Francium | 88 Ra 9 × 10 ⁻⁷ Radium | 89-103 | 104 Rf Rutherfordium | 105 Db Dubnium | 106 Sg Seaborgium | 107 Bh Bohrium | 108 Hs Hassium | 109 Mt Meitnerium | 110 Ds Darmstadtium | 111 Rg Roentgenium | 112 Cn Copernicium | 113 Nh Nihonium | 114 Fl Flerovium | 115 Mc Moscovium | 116 Lv Livermorium | 117 Ts Tennessine | 118 Og Oganesson | | | | | | |

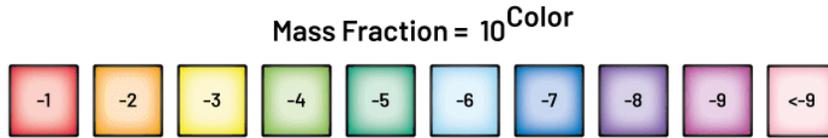
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|-------------|--|-----------------------------------|---|--------------------------------------|-------------------------------|-------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| Lanthanides | 57 La 39 Lanthanum | 58 Ce 66.5 Cerium | 59 Pr 9.2 Praseodymium | 60 Nd 41.5 Neodymium | 61 Pm Promethium | 62 Sm 7.05 Samarium | 63 Eu 2.0 Europium | 64 Gd 6.2 Gadolinium | 65 Tb 1.2 Terbium | 66 Dy 5.2 Dysprosium | 67 Ho 1.3 Holmium | 68 Er 3.5 Erbium | 69 Tm 0.52 Thulium | 70 Yb 3.2 Ytterbium | 71 Lu 0.8 Lutetium |
| Actinides | 89 Ac 5.5 × 10 ⁻¹⁰ Actinium | 90 Th 9.6 Thorium | 91 Pa 1.4 × 10 ⁻⁶ Protactinium | 92 U 2.7 Uranium | 93 Np Neptunium | 94 Pu Plutonium | 95 Am Americium | 96 Cm Curium | 97 Bk Berkelium | 98 Cf Californium | 99 Es Einsteinium | 100 Fm Fermium | 101 Md Mendelevium | 102 No Nobelium | 103 Lr Lawrencium |

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ELEMENTS OF THE HUMAN BODY

| | | | | | | | | | | | | | | | | | | |
|---|---|-----------------------|--|---|--|---|---|---|--|---|---|--|--|--|---|---|-------------------------|------------------------|
| 1 | | | | | | | | | | | | | | | | | 18 | |
| 1 | | | | | | | | | | | | | | | | | 2 | |
| H Hydrogen 1×10^{-1} | | | | | | | | | | | | | | | | | He Helium | |
| 2 | 3 | 4 | | | | | | | | | | | 5 | 6 | 7 | 8 | 9 | 10 |
| Li Lithium 3.1×10^{-8} | Be Beryllium | | | | | | | | | | | B Boron 6.90×10^{-7} | C Carbon 1.8×10^{-1} | N Nitrogen 3×10^{-2} | O Oxygen 6.5×10^{-1} | F Fluorine 3.2×10^{-5} | Ne Neon | |
| 3 | 11 | 12 | | | | | | | | | | | 13 | 14 | 15 | 16 | 17 | 18 |
| Na Sodium 1.5×10^{-3} | Mg Magnesium 5.00×10^{-4} | | | | | | | | | | | Al Aluminum 8.70×10^{-7} | Si Silicon 2×10^{-5} | P Phosphorus 1.1×10^{-2} | S Sulfur 2.5×10^{-3} | Cl Chlorine 1.5×10^{-3} | Ar Argon | |
| 4 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| K Potassium 2×10^{-3} | Ca Calcium 1.4×10^{-2} | Sc Scandium | Ti Titanium 1.30×10^{-7} | V Vanadium 2.60×10^{-7} | Cr Chromium 2.4×10^{-8} | Mn Manganese 1.70×10^{-7} | Fe Iron 6×10^{-5} | Co Cobalt 2.1×10^{-8} | Ni Nickel 1.40×10^{-7} | Cu Copper 1×10^{-6} | Zn Zinc 3.2×10^{-5} | Ga Gallium | Ge Germanium | As Arsenic 2.60×10^{-7} | Se Selenium 1.90×10^{-7} | Br Bromine 2.9×10^{-6} | Kr Krypton | |
| 5 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| Rb Rubidium 4.6×10^{-6} | Sr Strontium 4.6×10^{-6} | Y Yttrium | Zr Zirconium 6×10^{-6} | Nb Niobium 1.6×10^{-6} | Mo Molybdenum 1.30×10^{-7} | Tc Technetium | Ru Ruthenium | Rh Rhodium | Pd Palladium | Ag Silver 1.0×10^{-8} | Cd Cadmium 7.20×10^{-7} | In Indium | Sn Tin 2.40×10^{-7} | Sb Antimony 1.10×10^{-7} | Te Tellurium 1.20×10^{-7} | I Iodine 1.60×10^{-7} | Xe Xenon | |
| 6 | 55 | 56 | 57-71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 |
| Cs Cesium 2.1×10^{-8} | Ba Barium 3.10×10^{-7} | | | Hf Hafnium | Ta Tantalum | W Tungsten | Re Rhenium | Os Osmium | Ir Iridium | Pt Platinum | Au Gold 3×10^{-9} | Hg Mercury 1.90×10^{-7} | Tl Thallium | Pb Lead 1.7×10^{-6} | Bi Bismuth | Po Polonium | At Astatine | Rn Radon |
| 7 | 87 | 88 | 89-103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 |
| Fr Francium | Ra Radium | | | Rf Rutherfordium | Db Dubnium | Sg Seaborgium | Bh Bohrium | Hs Hassium | Mt Meitnerium | Ds Darmstadtium | Rg Roentgenium | Cn Copernicium | Nh Nihonium | Fl Flerovium | Mc Moscovium | Lv Livermorium | Ts Tennessine | Og Oganesson |



| | | | | | | | | | | | | | | |
|---|--|---------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|--------------------------|--------------------------|----------------------|--------------------------|------------------------|-------------------------|
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| La Lanthanum 1.37×10^{-6} | Ce Cerium 5.70×10^{-7} | Pr Praseodymium | Nd Neodymium | Pm Promethium | Sm Samarium | Eu Europium | Gd Gadolinium | Tb Terbium | Dy Dysprosium | Ho Holmium | Er Erbium | Tm Thulium | Yb Ytterbium | Lu Lutetium |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| Ac Actinium | Th Thorium | Pa Protactinium | U Uranium | Np Neptunium | Pu Plutonium | Am Americium | Cm Curium | Bk Berkelium | Cf Californium | Es Einsteinium | Fm Fermium | Md Mendelevium | No Nobelium | Lr Lawrencium |