

| # mol | Chemical Formula | Name | Molar Mass g/mol | Total g |
|--------------------|-----------------------------------|----------------------|---------------------|------------|
| Primordial----- | | | | |
| 3,648,129 | (H-1)2 | Molecular Hydrogen | 2 | 7,296,258 |
| 621,365 | He-4 | Helium | 4 | 2,485,460 |
| 264 | (H-2)(H-1) | Molecular Hydrogen | 3 | 792 |
| 103 | He-3 | Helium | 3 | 309 |
| Inert----- | | | | |
| 621 | Ne-20 | Neon | 20 | 12,420 |
| 43 | Ar-36 | Argon | 36 | 1,548 |
| 42 | Ne-22 | Neon | 22 | 924 |
| 10 | Ar-38 | Argon | 38 | 380 |
| 1 | Ne-21 | Neon | 21 | 21 |
| Air----- | | | | |
| 317 | (N-14)2 | Molecular Nitrogen | 28 | 8,876 |
| 85 | (O-16)2 | Molecular Oxygen | 32 | 2,720 |
| 2 | (N-15)(N-14) | Molecular Nitrogen | 29 | 58 |
| 1 | (C-12)(O-16)2 | Carbon Dioxide | 44 | 44 |
| 1 | Ar-40 | Argon | 40 | 40 |
| Water----- | | | | |
| 2013 | (H-1)2(O-16) | Water | 18 | 36,234 |
| 12 | (H-1)2(O-18) | Water | 20 | 240 |
| 2 | (H-1)2(O-17) | Water | 19 | 38 |
| Carbohydrates----- | | | | |
| 563 | (C-12)6(H-1)12(O-16)6 | Glucose | 180 | 101,340 |
| Fat----- | | | | |
| 11 | (C-12)18(H-1)32(O-16)2 | Linoleic Acid | 280 | 3,080 |
| 1 | (C-12)18(H-1)30(O-16)2 | Alpha Linolenic Acid | 278 | 278 |
| Protein----- | | | | |
| 8 | (C-12)6(H-1)13(N-14)(O-16)2 | Leucine | 131 | 1,048 |
| 6 | (C-12)6(H-1)14(N-14)2(O-16)2 | Lysine | 146 | 876 |
| 5 | (C-12)9(H-1)11(N-14)(O-16)2 | Phenylalanine | 165 | 825 |
| 5 | (C-12)5(H-1)11(N-14)(O-16)2 | Valine | 117 | 585 |
| 4 | (C-12)6(H-1)13(N-14)(O-16)2 | Isoleucine | 131 | 524 |
| 3 | (C-12)5(H-1)11(N-14)(O-16)2(S-32) | Methionine | 149 | 447 |
| 3 | (C-12)4(H-1)9(N-14)(O-16)3 | Threonine | 119 | 357 |
| 2 | (C-12)6(H-1)9(N-14)3(O-16)2 | Histidine | 155 | 310 |
| 1 | (C-12)11(H-1)12(N-14)2(O-16)2 | Tryptophan | 204 | 204 |
| Andesite----- | | | | |
| 8 | [(Na-23)(Al-27)(Si-28)3(O-16)8] | Sodium Feldspar | 262 | 2,096 |
| 27 | [(Si-28)(O-16)2] | Quartz | 60 | 1,620 |
| 1 | [(Ca-40)5(P-31)3(O-16)13(H-1)] | Hydroxyl Apatite | 502 | 502 |
| 3 | [(Ca-40)(C-12)(O-16)3] | Calcium Carbonate | 100 | 300 |
| 1 | [(K-39)(Al-27)(Si-28)3(O-16)8] | Potassium Feldspar | 278 | 278 |
| 1 | [(Fe-56)3(O-16)4] | Magnetite | 232 | 232 |
| 2 | [(Mg-24)(Si-28)(O-16)3] | Enstatite | 100 | 200 |
| 1 | [(Ca-40)(Ti-48)(Si-28)(O-16)5] | Titanite | 196 | 196 |
| 1 | [(Fe-56)2(O-16)3] | Hematite | 160 | 160 |
| Peridotite----- | | | | |
| 86 | [(Mg-24)2(Si-28)(O-16)4] | Magnesium Olivine | 140 | 12,040 |
| 14 | [(Fe-56)2(Si-28)(O-16)4] | Iron Olivine | 204 | 2,856 |
| 25 | [(Mg-26)(Si-28)(O-16)3] | Enstatite | 102 | 2,550 |
| 23 | [(Mg-25)(Si-28)(O-16)3] | Enstatite | 101 | 2,323 |
| 5 | [(Ca-40)(Al-27)2(Si-28)2(O-16)8] | Calcium Feldspar | 278 | 1,390 |
| 10 | [(Mg-24)(Si-29)(O-16)3] | Enstatite | 101 | 1,010 |
| 7 | [(Mg-24)(Si-30)(O-16)3] | Enstatite | 102 | 714 |
| 4 | [(Ca-40)(C-12)(O-16)3] | Calcium Carbonate | 100 | 400 |
| 1 | [(Cr-52)2(O-16)3] | Chromate | 152 | 152 |

| | | | | |
|-------------|-----------------------------|--------------------|-----|-------|
| 1 | [(Ca-44)(C-12)(O-16)3] | Calcium Carbonate | 104 | 104 |
| 1 | [(Na-23)(C-12)(O-16)3(H-1)] | Sodium Bicarbonate | 84 | 84 |
| 1 | [(Ni-58)(O-16)] | Nickel Oxide | 74 | 74 |
| Sulfur----- | | | | |
| 15 | (S-32)8 | Molecular Sulfur | 256 | 3,840 |
| 1 | (S-34)6(S-32)(S-33) | Molecular Sulfur | 269 | 269 |
| Steel----- | | | | |
| 146 | [(Fe-56)] | Iron | 56 | 8,176 |
| 11 | [(Fe-54)] | Iron | 54 | 594 |
| 39 | [(C-13)] | Graphite | 13 | 507 |
| 6 | [(Ni-58)] | Nickel | 58 | 348 |
| 4 | [(Fe-57)] | Iron | 57 | 228 |
| 3 | [(Ni-60)] | Nickel | 60 | 180 |
| 2 | [(Mn-55)] | Manganese | 55 | 110 |
| 1 | [(Ni-62)] | Nickel | 62 | 62 |
| 1 | [(Co-59)] | Cobalt | 59 | 59 |
| 1 | [(Fe-58)] | Iron | 58 | 58 |
| 1 | [(Cr-52)] | Chromium | 52 | 52 |

| Layer | Total Mass |
|---------------|-------------|
| Primordial | 9,782,819 g |
| Inert | 15,293 g |
| Air | 11,738 g |
| Water | 36,512 g |
| Carbohydrates | 101,340 g |
| Fat | 3,358 g |
| Protein | 5,176 g |
| Andesite | 5,584 g |
| Peridotite | 23,697 g |
| Sulfur | 4,109 g |
| Steel | 10,374 g |

Total Baryon #: 10,000,000 (protons + neutrons)
Radiation Temperature: 310.15 Kelvin
Molecular Oxygen Partial Pressure: 21.5 kilo-Pascals

| Symbol Z-(g/mol) | Baryon # g | # Density mol | Atomic # e/mol | Name Element-Isotope |
|---------------------|---------------|------------------|-------------------|-------------------------|
| H-1 | 7,308,156 | 7,308,156 | 1 | Hydrogen-1 |
| H-2 | 528 | 264 | 1 | Hydrogen-2 |
| He-3 | 309 | 103 | 2 | Helium-3 |
| He-4 | 2,485,460 | 621,365 | 2 | Helium-4 |
| C-12 | 45,984 | 3,832 | 6 | Carbon-12 |
| C-13 | 507 | 39 | 6 | Carbon-13 |
| N-14 | 9,576 | 684 | 7 | Nitrogen-14 |
| N-15 | 30 | 2 | 7 | Nitrogen-15 |
| O-16 | 103,792 | 6,487 | 8 | Oxygen-16 |
| O-17 | 34 | 2 | 8 | Oxygen-17 |
| O-18 | 216 | 12 | 8 | Oxygen-18 |
| Ne-20 | 12,420 | 621 | 10 | Neon-20 |
| Ne-21 | 21 | 1 | 10 | Neon-21 |
| Ne-22 | 924 | 42 | 10 | Neon-22 |
| Na-23 | 207 | 9 | 11 | Sodium-23 |
| Mg-24 | 4,584 | 191 | 12 | Magnesium-24 |
| Mg-25 | 575 | 23 | 12 | Magnesium-25 |
| Mg-26 | 650 | 25 | 12 | Magnesium-26 |
| Al-27 | 513 | 19 | 13 | Aluminum-27 |

| | | | | |
|-------|--------|-----|----|---------------|
| Si-28 | 6,020 | 215 | 14 | Silicon-28 |
| Si-29 | 290 | 10 | 14 | Silicon-29 |
| Si-30 | 210 | 7 | 14 | Silicon-30 |
| P-31 | 93 | 3 | 15 | Phosphorus-31 |
| S-32 | 3,968 | 124 | 16 | Sulfur-32 |
| S-33 | 33 | 1 | 16 | Sulfur-33 |
| S-34 | 204 | 6 | 16 | Sulfur-34 |
| Ar-36 | 1,548 | 43 | 18 | Argon-36 |
| Ar-38 | 380 | 10 | 18 | Argon-38 |
| Ar-40 | 40 | 1 | 18 | Argon-40 |
| K-39 | 39 | 1 | 19 | Potassium-39 |
| Ca-40 | 720 | 18 | 20 | Calcium-40 |
| Ca-44 | 44 | 1 | 20 | Calcium-44 |
| Ti-48 | 48 | 1 | 22 | Titanium-48 |
| Cr-52 | 156 | 3 | 24 | Chromium-52 |
| Mn-55 | 110 | 2 | 25 | Manganese-55 |
| Fe-54 | 594 | 11 | 26 | Iron-54 |
| Fe-56 | 10,024 | 179 | 26 | Iron-56 |
| Fe-57 | 228 | 4 | 26 | Iron-57 |
| Fe-58 | 58 | 1 | 26 | Iron-58 |
| Co-59 | 59 | 1 | 27 | Cobalt-59 |
| Ni-58 | 406 | 7 | 28 | Nickel-58 |
| Ni-60 | 180 | 3 | 28 | Nickel-60 |
| Ni-62 | 62 | 1 | 28 | Nickel-62 |
