

#	Chemical Formula	Name	Molar Mass g/mol	Total g
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mol	-	-		
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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
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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
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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
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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
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Carbohydrates				
563	(C-12)6(H-1)12(O-16)6	Glucose	180	101,340
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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
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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
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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
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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	Baryon #	# Density	Atomic #	Name
Z-(g/mol)	g	mol	e/mol	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
