



This is “Appendix I: Experimentally Measured Masses of Selected Isotopes”, appendix 9 from the book Principles of General Chemistry (index.html) (v. 1.0).

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Chapter 33

Appendix I: Experimentally Measured Masses of Selected Isotopes

Isotope	Mass (amu)	Isotope	Mass (amu)	Isotope	Mass (amu)
^1H	1.007825	^{14}N	14.003074	^{208}Po	207.981246
^2H	2.014102	^{16}O	15.994915	^{210}Po	209.982874
^3H	3.016049	^{52}Cr	51.940508	^{222}Rn	222.017578
^3He	3.016029	^{56}Fe	55.934938	^{226}Ra	226.025410
^4He	4.002603	^{59}Co	58.933195	^{230}Th	230.033134
^6Li	6.015123	^{58}Ni	57.935343	^{234}Th	234.043601
^7Li	7.016005	^{60}Ni	59.930786	^{234}Pa	234.043308
^9Be	9.012182	^{90}Rb	89.914802	^{233}U	233.039635
^{10}B	10.012937	^{144}Cs	143.932077	^{234}U	234.040952
^{11}B	11.009305	^{206}Pb	205.974465	^{235}U	235.043930
^{12}C	12	^{207}Pb	206.975897	^{238}U	238.050788
^{13}C	13.003355	^{208}Pb	207.976652	^{239}Pu	239.052163
^{14}C	14.003242				

Data source: G. Audi, A. H. Wapstra, and C. Thibault, *The AME2003 atomic mass evaluation*.

This table is provided as a reference.

Isotope	Mass (amu)	Isotope	Mass (amu)
^8B	8.024607	^{209}Fr	208.99592
^{40}K	39.963998	^{210}Po	209.982874
^{52}Cr	51.940508	^{212}At	211.990745
^{58}Ni	57.935343	^{214}Pb	213.999797

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Isotope	Mass (amu)	Isotope	Mass (amu)
^{59}Co	58.933195	^{214}Bi	213.998712
^{60}Co	59.933817	^{216}Fr	216.003198
^{60}Ni	59.930786	^{199}Pb	198.972917
^{90}Sr	89.907738	^{222}Rn	222.017578
^{92}Kr	91.926156	^{226}Ra	226.025410
^{141}Ba	140.914411	^{227}Ra	227.029178
^{143}Xe	142.935110	^{228}Ac	228.031021
^{167}Os	166.971550	^{230}Th	230.033134
^{171}Pt	170.981240	^{233}U	233.039635
^{194}Hg	193.965439	^{234}Th	234.043601
^{194}Tl	193.971200	^{234}Pa	234.043308
^{199}Pb	198.972917	^{233}U	233.039635
^{199}Bi	198.977672	^{234}U	234.040952
^{206}Pb	205.974465	^{235}U	235.043930
^{207}Pb	206.975897	^{238}Pa	238.054500
^{208}Pb	207.976652	^{238}U	238.050788
^{208}Bi	207.979742	^{239}Pu	239.052163
^{208}Po	207.981246	^{245}Pu	245.067747