

Table A.1. Radionuclide nomenclature

Radionuclide	Symbol	Half-life	Radionuclide	Symbol	Half-life
Americium-241	²⁴¹ Am	432.2 years	Plutonium-238	²³⁸ Pu	87.75 years
Americium-243	²⁴³ Am	7.38E+3 years	Plutonium-239	²³⁹ Pu	2.41E+4 years
Antimony-125	¹²⁵ Sb	2.77 years	Plutonium-240	²⁴⁰ Pu	6.569E+3 years
Argon-41	⁴¹ Ar	1.827 hours	Potassium-40	⁴⁰ K	1.2777E+9 years
Beryllium-7	⁷ Be	53.44 days	Promethium-147	¹⁴⁷ Pm	2.6234 years
Californium-252	²⁵² Cf	2.639 years	Protactinium-234m	^{234m} Pa	1.17 minutes
Carbon-14	¹⁴ C	5.730E+3 years	Radium-226	²²⁶ Ra	1.6E+3 years
Cerium-141	¹⁴¹ Ce	32.50 days	Radium-228	²²⁸ Ra	5.75 years
Cerium-143	¹⁴³ Ce	1.38 days	Ruthenium-103	¹⁰³ Ru	39.35 days
Cerium-144	¹⁴⁴ Ce	284.3 days	Ruthenium-106	¹⁰⁶ Ru	368.2 days
Cesium-134	¹³⁴ Cs	2.062 years	Strontium-89	⁸⁹ Sr	50.55 days
Cesium-137	¹³⁷ Cs	30.17 years	Strontium-90	⁹⁰ Sr	28.6 years
Cobalt-58	⁵⁸ Co	70.80 days	Technetium-99	⁹⁹ Tc	2.13E+5 years
Cobalt-60	⁶⁰ Co	5.271 years	Thorium-228	²²⁸ Th	1.9132 years
Curium-242	²⁴² Cm	163.2 days	Thorium-230	²³⁰ Th	7.54E+4 years
Curium-244	²⁴⁴ Cm	18.11 years	Thorium-232	²³² Th	1.405E+10 years
Iodine-129	¹²⁹ I	157E+7 years	Thorium-234	²³⁴ Th	2.41E+1 days
Iodine-131	¹³¹ I	8.04 days	Tritium	³ H	12.28 years
Krypton-85	⁸⁵ Kr	10.72 years	Uranium-234	²³⁴ U	2.445E+5 years
Krypton-88	⁸⁸ Kr	2.84 hours	Uranium-235	²³⁵ U	7.038E+8 years
Manganese-54	⁵⁴ Mn	312.7 days	Uranium-236	²³⁶ U	2.3415E+7 years
Neptunium-237	²³⁷ Np	2.14E+6 years	Uranium-238	²³⁸ U	4.468E+9 years
Niobium-95	⁹⁵ Nb	35.06 days	Xenon-133	¹³³ Xe	5.245E+9 years
Osmium-185	¹⁸⁵ Os	93.6 days	Xenon-135	¹³⁵ Xe	9.11 hours
Phosphorus-32	³² P	14.29 days	Yttrium-90	⁹⁰ Y	64.1 hours
Polonium-210	²¹⁰ Po	138.378 days	Zirconium-95	⁹⁵ Zr	64.02 days

Source: *Radioactive Decay Tables: A Handbook of Decay Data for Application to Radioactive Dosimetry and Radiological Assessments* (DOE 1989).

