

Radionuclide and Chemical Nomenclature

Nomenclature and Half-Life for Radionuclides					
Radionuclide	Symbol	Half-life ^{a,b}	Radionuclide	Symbol	Half-life ^{a,b}
Actinium-228	Ac-228	6.15 h	Iodine-129	I-129	1.57E7 y
Americium-241	Am-241	432.7 y	Iodine-131	I-131	8.0207 d
Americium-243	Am-243	7370 y	Iodine-133	I-133	20.3 h
Antimony-124	Sb-124	60.2 d	Krypton-85	Kr-85	10.76 y
Antimony-125	Sb-125	2.758 y	Lead-212	Pb-212	10.64 h
Argon-39	Ar-39	269 y	Lead-214	Pb-214	27 m
Barium-133	Ba-133	10.7 y	Manganese-54	Mn-54	312.1 d
Beryllium-7	Be-7	53.28 d	Mercury-203	Hg-203	46.61 d
Bismuth-212	Bi-212	2.14 m	Neptunium-237	Np-237	2.14E6 y
Bismuth-214	Bi-214	19.9 m	Neptunium-239	Np-239	2.355 d
Carbon-14	C-14	5714 y	Nickel-59	Ni-59	7.6E4 y
Cerium-141	Ce-141	32.5 d	Nickel-63	Ni-63	100 y
Cerium-144	Ce-144	284.6 d	Niobium-94	Nb-94	2.0E4 y
Cesium-134	Cs-134	2.065 y	Niobium-95	Nb-95	34.97 d
Cesium-137	Cs-137	30.07 y	Plutonium-238	Pu-238	87.7 y
Chromium-51	Cr-51	27.702 d	Plutonium-239	Pu-239	2.41E4y
Cobalt-57	Co-57	271.8 d	Plutonium-240	Pu-240	6560 y
Cobalt-58	Co-58	70.88	Plutonium-241	Pu-241	14.4 y
Cobalt-60	Co-60	5.271 y	Plutonium-242	Pu-242	3.75E5 y
Curium-242	Cm-242	162.8 d	Potassium-40	K-40	1.27E9 y
Curium-244	Cm-244	18.1 y	Praseodymium-144	Pr-144	17.28 m
Curium-245	Cm-245	8.50E3 y	Praseodymium-144m	Pr-144m	7.2 m
Curium-246	Cm-246	4.76E3 y	Promethium-147	Pm-147	2.6234 y
Europium-152	Eu-152	13.54 y	Protactinium-231	Pa-231	3.28E4 y
Europium-154	Eu-154	8.593 y	Protactinium-233	Pa-233	27.0 d
Europium-155	Eu-155	4.75 y	Protactinium-234	Pa-234	6.69 h

^a m = minute; h = hour; d = day; y = year

^b Reference: Chart of the Nuclides, 15th edition, revised 1996, General Electric Company

Nomenclature and Half-Life for Radionuclides (cont.)					
Radionuclide	Symbol	Half-life ^{a,b}	Radionuclide	Symbol	Half-life ^{a,b}
Radium-226	Ra-226	1599 y	Thorium-234	Th-234	24.10 d
Radium-228	Ra-228	5.76 y	Tin-113	Sn-113	115.1 d
Ruthenium-103	Ru-103	39.27 d	Tin-126	Sn-126	2.5E5 y
Ruthenium-106	Ru-106	1.020 y	Tritium (Hydrogen-3)	H-3	12.32 y
Selenium-75	Se-75	119.78 d	Uranium-232	U-232	69.8 y
Selenium-79	Se-79	6.5E5 y	Uranium-233	U-233	1.592E5 y
Sodium-22	Na-22	2.604 y	Uranium-234	U-234	2.46E5 y
Strontium-89	Sr-89	50.52 d	Uranium-235	U-235	7.04E8 Y
Strontium-90	Sr-90	28.78 y	Uranium-236	U-236	2.342E7 y
Technetium-99	Tc-99	2.13E5 y	Uranium-238	U-238	4.47E9 y
Thallium-208	Tl-208	3.053 m	Xenon-135	Xe-135	9.10 h
Thorium-228	Th-228	1.913 y	Zinc-65	Zn-65	243.8 d
Thorium-230	Th-230	7.54E4 y	Zirconium-85	Zr-85	7.7m
Thorium-232	Th-232	1,40E10 y	Zirconium-95	Zr-95	64.02 d

^a m = minute; h = hour; d = day; y = year

^b Reference: Chart of the Nuclides, 15th edition, revised 1996, General Electric Company

Nomenclature for Elements and Chemical Constituent Analyses

Constituent	Symbol	Constituent	Symbol
<i>Note: Some of the symbols listed in this table came from various databases used to format the data tables in this report, and are included here to assist the reader in understanding the tables.</i>			
Aluminum	Al (or AL)	Nitrite, Nitrate	NO ₂ , NO ₃ (or NO ₂ , NO ₃ , or NO ₂ /NO ₃)
Ammonia	NH ₃	pH	pH (or PH)
Ammonia as Nitrogen	NH ₃ -N (or AN)	Phenol	PHE
Antimony	Sb (or SB)	Phosphorus	P
Arsenic	As (or AS)	Phosphate	PO ₄ (or PO ₄ -P or PO ₄ -P)
Barium	Ba (or BA)	Polychlorinated Biphenyl	PCB
Biological Oxygen Demand	BOD	Potassium	K
Beryllium	Be	Selenium	Se (or SE)
Boron	B	Silver	Ag (or AG)
Bromide	Br	Sulfate	SO ₄ (or SO ₄)
Cadmium	Cd (or CD)	Tetrachloroethene	PERCL
Chemical Oxygen Demand	COD	Tetrachloroethylene (Perchloroethylene)	PERCL
Chlorine	Cl (or CHL)	Trichloroethene	TRICL
Chromium	Cr (or CR)	Trichloroethylene	TRICL
Cobalt	Co	Tin	Sn
Copper	Cu (or CU)	Total Dissolved Solids	TDS
Cyanide	CN	Total Kjeldahl Nitrogen	TKN
Dissolved Oxygen	DO	Total Organic Carbon	TOC
Iron	Fe (or FE)	Total Suspended Particulate Matter	TSP
Lead	Pb (or PB)	Total Suspended Solids	TSS
Magnesium	Mg (or MG)	Total Volatile Solids	TVS
Manganese	Mn (or MN)	Uranium	U
Mercury	Hg (or HG)	Vinyl Chloride	VC
Molybdenum	Mo	Zinc	Zn (or ZN)
Nickel	Ni (or NI)		
Nitrate	NO ₃		
Nitrate as Nitrogen	NO ₃ -N		
Nitrite as Nitrogen	NO ₂ -N		
