

Isotope	Medical Diagnostic	Medical Therapy	Research	Nuclear	Industrial	Nuclear incident	Prominent emission energy (keV)						Geiger probe		NaI scintillator probe			Plastic scintillator probe			
							α	β ⁻ avg	β ⁻ max	β ⁺ avg	β ⁺ max	γ	SS300	SS315	SS404 Al	SS404 Be	SS500	SS440 B	SS600/700 A	SS600/700 B	SS600/700 AB
C-11	X											X	X			X					
C-14		X	X	X				49	157								X		X		
O-15	X									740	1735	511	X	X			X		X		
F-18	X									249	634	511	X	X			X		X		
Na-22	X									216	546	511/1275	X	X			X		X		
P-32		X	X					700	1700				X	X			X		X		
P-33		X	X					76	249				X	X			X		X		
S-35		X	X	X				49	167				X	X			X		X		
Cl-36		X	X	X				316	709				X	X			X		X		
Ca-45		X						77	257				X	X			X		X		
Cr-51	X			X								5/320	X	X			X		X		
Mn-54				X				542				834	X	X			X		X		
Fe-55				X								6	X	X			X		X		
Co-57	X											120	X	X	X		X		X		
Co-58	X									510	1285	511/810	X	X			X		X		
Fe-59	X		X					150	466			1290	X	X			X		X		
Co-60			X	X	X			96	317			1170/1330	X	X			X		X		
Ni-63			X	X	X			17	67				X	X			X		X		
Ga-67	X											185	X	X	X		X		X		
Se-75	X				X							260	X	X	X		X		X		
Kr-75	X				X			250	687				X	X			X		X		
Sr-89		X						585	1490				X	X			X		X		
Sr-90/Yr-90	X	X	X	X	X	X		200/927	560/2270				X	X			X		X		
Tc(m)-99	X			X								140	X	X	X	X	X		X		
Cd-109			X									88	X	X	X	X	X		X		
In-111	X											245	X	X	X	X	X		X		
In-113m	X											392	X	X	X	X	X		X		
Te-123m			X									159	X	X	X	X	X		X		
I-123	X											160	X	X	X	X	X		X		
I-125	X		X									30	X	X	X	X	X		X		
I-131		X		X		X		192	606			360	X	X		X	X		X		
I-133					X			440	1230				X	X		X	X		X		
Ba-133	X				X							356	X	X		X	X		X		
Xe-133	X							100	346			81	X	X	X	X	X		X		
Cs-134					X	X		210	660			604	X	X	X	X	X		X		
Cs-137	X	X	X	X	X	X		175	514			661	X	X	X	X	X		X		
Pm-147				X				62	225				X	X		X	X		X		
Sm-151			X					77					X	X		X	X		X		
Eu-152			X					220	690			120/345/780	X	X		X	X		X		
Tm-170		X			X			323	968				X	X		X	X		X		
Ir-192		X						210	675			316	X	X		X	X		X		
Au-195	X											66/99	X	X	X	X	X		X		
Tl-201	X											168	X	X	X	X	X		X		
Tl-204			X		X			244	760				X	X		X	X		X		
Pb-210					X			4/16	17/64			45	X	X	X	X	X		X		
Bi-210					X			390	1160				X	X		X	X		X		
Po-210					X			5300					X	X		X	X		X		
Ra-226			X		X			4770				188	X	X		X	X		X		
Th-232				X				4000					X	X		X	X		X		
U-235				X				4400				185	X	X	X	X	X		X		
U-238				X	X			4200					X	X		X	X		X		
Pu-238				X				5500				15	X	X	X	X	X		X		
Pu-239				X		X		5160				51	X	X	X	X	X		X		
Am-241			X	X	X	X		5480				60	X	X	X	X	X		X		

Emission energies taken from www.nucleide.org, which provides published sources for isotope specific data. Please note: this is intended to be a quick look-up table and not an accurate reference.