Muons in guanine ($C_5H_5N_5O$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.51612	1.580	75.0	0.20530	3.0186	0.1163	2.4296	3.1171	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	7.406				7.406	7.463×10^{-1}
14.0 MeV	5.616×10^1	5.777				5.777	1.364×10^0
20.0 MeV	6.802×10^1	4.511				4.512	2.553×10^0
30.0 MeV	8.509×10^1	3.500				3.500	5.105×10^0
40.0 MeV	1.003×10^2	2.989				2.989	8.217×10^0
80.0 MeV	1.527×10^2	2.237				2.237	2.416×10^1
100. MeV	1.764×10^2	2.095				2.095	3.343×10^1
140. MeV	2.218×10^2	1.949				1.949	5.332×10^1
200. MeV	2.868×10^2	1.865				1.865	8.492×10^1
300. MeV	3.917×10^2	1.832			0.000	1.832	1.392×10^2
318. MeV	4.105×10^2	1.832			0.000	1.832	*Minimum ionization*
400. MeV	4.945×10^2	1.837			0.000	1.838	1.937×10^2
800. MeV	8.995×10^2	1.906	0.000		0.000	1.907	4.075×10^2
1.00 GeV	1.101×10^3	1.938	0.000		0.000	1.938	5.115×10^2
1.40 GeV	1.502×10^3	1.989	0.000		0.001	1.990	7.150×10^2
2.00 GeV	2.103×10^3	2.046	0.001	0.000	0.001	2.048	1.012×10^3
3.00 GeV	3.104×10^3	2.111	0.001	0.001	0.001	2.114	1.492×10^3
4.00 GeV	4.104×10^3	2.155	0.001	0.001	0.002	2.160	1.960×10^3
8.00 GeV	8.105×10^3	2.258	0.003	0.003	0.004	2.268	3.761×10^3
10.0 GeV	1.011×10^4	2.289	0.004	0.004	0.005	2.303	4.636×10^3
14.0 GeV	1.411×10^4	2.334	0.007	0.007	0.007	2.355	6.353×10^3
20.0 GeV	2.011×10^4	2.380	0.010	0.012	0.009	2.411	8.869×10^3
30.0 GeV	3.011×10^4	2.429	0.017	0.021	0.013	2.480	1.296×10^4
40.0 GeV	4.011×10^4	2.463	0.024	0.030	0.018	2.535	1.694×10^4
80.0 GeV	8.011×10^4	2.541	0.054	0.073	0.034	2.703	3.220×10^4
100. GeV	1.001×10^5	2.565	0.071	0.096	0.042	2.775	3.950×10^4
140. GeV	1.401×10^5	2.601	0.104	0.145	0.059	2.910	5.357×10^4
200. GeV	2.001×10^5	2.639	0.157	0.222	0.084	3.102	7.354×10^4
300. GeV	3.001×10^5	2.682	0.248	0.353	0.125	3.408	1.043×10^5
400. GeV	4.001×10^5	2.713	0.342	0.489	0.167	3.710	1.324×10^5
800. GeV	8.001×10^5	2.786	0.734	1.057	0.337	4.914	2.258×10^5
1.00 TeV	1.000×10^6	2.810	0.937	1.351	0.423	5.521	2.641×10^5
1.04 TeV	1.036×10^6	2.814	0.973	1.402	0.439	5.629	*Muon critical energy*
1.40 TeV	1.400×10^6	2.847	1.345	1.935	0.601	6.727	3.297×10^5
2.00 TeV	2.000×10^6	2.886	1.972	2.830	0.870	8.558	4.086×10^5
3.00 TeV	3.000×10^6	2.931	3.023	4.321	1.333	11.609	5.086×10^5
4.00 TeV	4.000×10^6	2.964	4.093	5.833	1.803	14.694	5.850×10^5
8.00 TeV	8.000×10^6	3.044	8.423	11.924	3.764	27.156	7.822×10^5
10.0 TeV	1.000×10^7	3.070	10.613	14.993	4.775	33.451	8.484×10^5
14.0 TeV	1.400×10^7	3.111	14.983	21.105	6.856	46.055	9.499×10^5
20.0 TeV	2.000×10^7	3.154	21.593	30.326	10.053	65.126	1.059×10^6
30.0 TeV	3.000×10^7	3.204	32.600	45.667	15.603	97.074	1.184×10^6
40.0 TeV	4.000×10^7	3.240	43.665	61.058	21.300	129.263	1.273×10^6
80.0 TeV	8.000×10^7	3.329	88.030	122.676	45.207	259.242	1.487×10^6
100. TeV	1.000×10^8	3.358	110.270	153.522	57.600	324.750	1.556×10^6