Table 102: Muons in Adenine ($C_5H_5N_5$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.51903	1.350	71.4	0.20908	3.0271	0.1295	2.4219	3.1724	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	7.495				7.495	7.371×10^{-1}
14.0 MeV	5.616×10^1	5.845				5.845	1.348×10^0
20.0 MeV	6.802×10^1	4.564				4.564	2.523×10^0
30.0 MeV	8.509×10^1	3.540				3.540	5.046×10^0
40.0 MeV	1.003×10^2	3.022				3.022	8.123×10^0
80.0 MeV	1.527×10^2	2.264				2.264	2.389×10^1
100. MeV	1.764×10^2	2.119				2.120	3.305×10^1
140. MeV	2.218×10^2	1.972				1.972	5.271×10^1
200. MeV	2.868×10^2	1.887				1.887	8.393×10^1
300. MeV	3.917×10^2	1.854			0.000	1.855	1.375×10^2
318. MeV	4.105×10^2	1.854			0.000	1.854	*Minimum ionization*
400. MeV	4.945×10^2	1.860			0.000	1.860	1.914×10^2
800. MeV	8.995×10^2	1.929	0.000		0.000	1.930	4.027×10^2
1.00 GeV	1.101×10^3	1.961	0.000		0.000	1.962	5.055×10^2
1.40 GeV	1.502×10^3	2.013	0.000		0.001	2.014	7.066×10^2
2.00 GeV	2.103×10^3	2.070	0.001	0.000	0.001	2.072	1.000×10^3
3.00 GeV	3.104×10^3	2.135	0.001	0.001	0.001	2.138	1.475×10^3
4.00 GeV	4.104×10^3	2.180	0.001	0.001	0.002	2.184	1.937×10^3
8.00 GeV	8.105×10^3	2.283	0.003	0.003	0.004	2.293	3.719×10^3
10.0 GeV	1.011×10^4	2.314	0.004	0.004	0.005	2.328	4.584×10^3
14.0 GeV	1.411×10^4	2.360	0.006	0.007	0.007	2.380	6.283×10^3
20.0 GeV	2.011×10^4	2.406	0.010	0.011	0.009	2.436	8.773×10^3
30.0 GeV	3.011×10^4	2.455	0.016	0.020	0.013	2.505	1.282×10^4
40.0 GeV	4.011×10^4	2.489	0.023	0.029	0.018	2.560	1.676×10^4
80.0 GeV	8.011×10^4	2.568	0.053	0.071	0.034	2.727	3.188×10^4
100. GeV	1.001×10^5	2.592	0.069	0.094	0.042	2.798	3.912×10^4
140. GeV	1.401×10^5	2.628	0.102	0.142	0.059	2.931	5.308×10^4
200. GeV	2.001×10^5	2.666	0.154	0.217	0.084	3.121	7.291×10^4
300. GeV	3.001×10^5	2.709	0.242	0.345	0.125	3.422	1.035×10^5
400. GeV	4.001×10^5	2.740	0.335	0.479	0.167	3.720	1.315×10^5
800. GeV	8.001×10^5	2.814	0.719	1.035	0.338	4.905	2.248×10^5
1.00 TeV	1.000×10^6	2.838	0.917	1.322	0.424	5.502	2.633×10^5
1.06 TeV	1.064×10^6	2.845	0.980	1.413	0.452	5.691	*Muon critical energy*
1.40 TeV	1.400×10^6	2.875	1.317	1.895	0.602	6.689	3.292×10^5
2.00 TeV	2.000×10^6	2.915	1.931	2.772	0.871	8.490	4.086×10^5
3.00 TeV	3.000×10^6	2.960	2.961	4.233	1.335	11.490	5.095×10^5
4.00 TeV	4.000×10^6	2.993	4.009	5.715	1.806	14.524	5.868×10^5
8.00 TeV	8.000×10^6	3.073	8.254	11.683	3.771	26.781	7.865×10^5
10.0 TeV	1.000×10^7	3.100	10.400	14.690	4.783	32.973	8.537×10^5
14.0 TeV	1.400×10^7	3.140	14.683	20.680	6.867	45.371	9.567×10^5
20.0 TeV	2.000×10^7	3.184	21.163	29.715	10.071	64.133	1.067×10^6
30.0 TeV	3.000×10^7	3.234	31.952	44.748	15.632	95.566	1.194×10^6
40.0 TeV	4.000×10^7	3.270	42.798	59.831	21.340	127.240	1.285×10^6
80.0 TeV	8.000×10^7	3.360	86.287	120.213	45.297	255.156	1.502×10^6
100. TeV	1.000×10^8	3.389	108.087	150.440	57.716	319.633	1.572×10^6