Table 109: Muons in Aniline ($C_6H_5NH_2$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.53699	1.023	66.2	0.13134	3.3434	0.1618	2.5805	3.2622	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm^2/g]	Photonucl	Total	CSDA range [g/cm^2]
10.0 MeV	4.704×10^1	7.829				7.830	7.051×10^{-1}
14.0 MeV	5.616×10^1	6.104				6.104	1.290×10^0
20.0 MeV	6.802×10^1	4.764				4.764	2.415×10^0
30.0 MeV	8.509×10^1	3.694				3.694	4.833×10^0
40.0 MeV	1.003×10^2	3.153				3.153	7.782×10^0
80.0 MeV	1.527×10^2	2.365				2.365	2.290×10^1
100. MeV	1.764×10^2	2.215				2.215	3.166×10^1
140. MeV	2.218×10^2	2.062				2.062	5.046×10^1
200. MeV	2.868×10^2	1.974				1.974	8.032×10^1
300. MeV	3.917×10^2	1.939			0.000	1.939	1.316×10^2
318. MeV	4.105×10^2	1.939			0.000	1.939	*Minimum ionization*
400. MeV	4.945×10^2	1.944			0.000	1.945	1.831×10^2
800. MeV	8.995×10^2	2.016	0.000		0.000	2.016	3.852×10^2
1.00 GeV	1.101×10^3	2.049	0.000		0.000	2.049	4.836×10^2
1.40 GeV	1.502×10^3	2.102	0.000		0.001	2.103	6.761×10^2
2.00 GeV	2.103×10^3	2.161	0.000	0.000	0.001	2.163	9.572×10^2
3.00 GeV	3.104×10^3	2.228	0.001	0.001	0.001	2.231	1.412×10^3
4.00 GeV	4.104×10^3	2.275	0.001	0.001	0.002	2.279	1.855×10^3
8.00 GeV	8.105×10^3	2.381	0.003	0.003	0.004	2.391	3.564×10^3
10.0 GeV	1.011×10^4	2.414	0.004	0.004	0.005	2.427	4.394×10^3
14.0 GeV	1.411×10^4	2.461	0.006	0.006	0.007	2.480	6.023×10^3
20.0 GeV	2.011×10^4	2.509	0.009	0.011	0.009	2.538	8.413×10^3
30.0 GeV	3.011×10^4	2.560	0.015	0.019	0.014	2.608	1.230×10^4
40.0 GeV	4.011×10^4	2.595	0.022	0.027	0.018	2.663	1.609×10^4
80.0 GeV	8.011×10^4	2.676	0.050	0.067	0.034	2.828	3.064×10^4
100. GeV	1.001×10^5	2.702	0.065	0.088	0.043	2.897	3.763×10^4
140. GeV	1.401×10^5	2.739	0.095	0.133	0.059	3.027	5.113×10^4
200. GeV	2.001×10^5	2.779	0.144	0.203	0.084	3.210	7.037×10^4
300. GeV	3.001×10^5	2.823	0.227	0.323	0.126	3.500	1.002×10^5
400. GeV	4.001×10^5	2.855	0.314	0.449	0.168	3.786	1.277×10^5
800. GeV	8.001×10^5	2.932	0.675	0.971	0.340	4.918	2.201×10^5
1.00 TeV	1.000×10^6	2.957	0.862	1.242	0.427	5.487	2.586×10^5
1.16 TeV	1.163×10^6	2.974	1.014	1.460	0.500	5.947	*Muon critical energy*
1.40 TeV	1.400×10^6	2.995	1.238	1.780	0.606	6.619	3.249×10^5
2.00 TeV	2.000×10^6	3.035	1.817	2.606	0.877	8.336	4.055×10^5
3.00 TeV	3.000×10^6	3.082	2.788	3.981	1.344	11.195	5.087×10^5
4.00 TeV	4.000×10^6	3.116	3.776	5.376	1.819	14.087	5.881×10^5
8.00 TeV	8.000×10^6	3.200	7.779	10.996	3.799	25.773	7.950×10^5
10.0 TeV	1.000×10^7	3.227	9.805	13.827	4.818	31.678	8.649×10^5
14.0 TeV	1.400×10^7	3.269	13.847	19.468	6.920	43.504	9.722×10^5
20.0 TeV	2.000×10^7	3.314	19.964	27.978	10.150	61.406	1.088×10^6
30.0 TeV	3.000×10^7	3.366	30.151	42.136	15.758	91.410	1.220×10^6
40.0 TeV	4.000×10^7	3.403	40.394	56.340	21.515	121.653	1.315×10^6
80.0 TeV	8.000×10^7	3.496	81.456	113.208	45.688	243.850	1.543×10^6
100. TeV	1.000×10^8	3.527	102.039	141.677	58.223	305.467	1.616×10^6