Table 101: Muons in Acetylene (CHCH)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.53768	1.097×10^{-3}	58.2	0.12167	3.4277	1.6017	4.0074	9.8419	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	7.968				7.968	6.921×10^{-1}
14.0 MeV	5.616×10^1	6.208				6.208	1.267×10^0
20.0 MeV	6.802×10^1	4.843				4.843	2.374×10^0
30.0 MeV	8.509×10^1	3.753				3.753	4.753×10^0
40.0 MeV	1.003×10^2	3.202				3.202	7.656×10^0
80.0 MeV	1.527×10^2	2.399				2.400	2.255×10^1
100. MeV	1.764×10^2	2.255				2.256	3.117×10^1
140. MeV	2.218×10^2	2.113				2.114	4.958×10^1
200. MeV	2.868×10^2	2.040				2.040	7.858×10^1
263. MeV	3.537×10^2	2.025			0.000	2.025	*Minimum ionization*
300. MeV	3.917×10^2	2.028			0.000	2.028	1.279×10^2
400. MeV	4.945×10^2	2.053			0.000	2.053	1.769×10^2
800. MeV	8.995×10^2	2.184	0.000		0.000	2.185	3.657×10^2
1.00 GeV	1.101×10^3	2.240	0.000		0.000	2.241	4.560×10^2
1.40 GeV	1.502×10^3	2.332	0.000		0.001	2.333	6.308×10^2
2.00 GeV	2.103×10^3	2.435	0.000	0.000	0.001	2.437	8.822×10^2
3.00 GeV	3.104×10^3	2.557	0.001	0.001	0.001	2.560	1.282×10^3
4.00 GeV	4.104×10^3	2.645	0.001	0.001	0.002	2.649	1.666×10^3
8.00 GeV	8.105×10^3	2.820	0.003	0.003	0.004	2.829	3.120×10^3
10.0 GeV	1.011×10^4	2.870	0.004	0.004	0.005	2.883	3.820×10^3
14.0 GeV	1.411×10^4	2.942	0.006	0.006	0.007	2.961	5.188×10^3
20.0 GeV	2.011×10^4	3.011	0.009	0.010	0.009	3.040	7.186×10^3
30.0 GeV	3.011×10^4	3.082	0.015	0.018	0.014	3.130	1.042×10^4
40.0 GeV	4.011×10^4	3.129	0.021	0.027	0.018	3.195	1.359×10^4
80.0 GeV	8.011×10^4	3.229	0.049	0.065	0.035	3.378	2.574×10^4
100. GeV	1.001×10^5	3.258	0.063	0.086	0.043	3.451	3.159×10^4
140. GeV	1.401×10^5	3.300	0.093	0.130	0.059	3.583	4.297×10^4
200. GeV	2.001×10^5	3.343	0.141	0.199	0.084	3.767	5.929×10^4
300. GeV	3.001×10^5	3.390	0.222	0.316	0.126	4.055	8.486×10^4
400. GeV	4.001×10^5	3.422	0.307	0.439	0.168	4.337	1.087×10^5
800. GeV	8.001×10^5	3.500	0.661	0.951	0.340	5.452	1.908×10^5
1.00 TeV	1.000×10^6	3.525	0.844	1.216	0.428	6.012	2.257×10^5
1.40 TeV	1.400×10^6	3.563	1.212	1.743	0.606	7.125	2.867×10^5
1.40 TeV	1.400×10^6	3.563	1.213	1.744	0.607	7.126	*Muon critical energy*
2.00 TeV	2.000×10^6	3.604	1.779	2.552	0.878	8.814	3.623×10^5
3.00 TeV	3.000×10^6	3.651	2.730	3.899	1.346	11.626	4.608×10^5
4.00 TeV	4.000×10^6	3.685	3.698	5.266	1.822	14.471	5.378×10^5
8.00 TeV	8.000×10^6	3.768	7.621	10.772	3.804	25.966	7.413×10^5
10.0 TeV	1.000×10^7	3.796	9.606	13.547	4.825	31.774	8.108×10^5
14.0 TeV	1.400×10^7	3.838	13.568	19.074	6.931	43.410	9.181×10^5
20.0 TeV	2.000×10^7	3.883	19.563	27.412	10.166	61.024	1.034×10^6
30.0 TeV	3.000×10^7	3.935	29.546	41.284	15.784	90.549	1.168×10^6
40.0 TeV	4.000×10^7	3.972	39.586	55.203	21.551	120.312	1.263×10^6
80.0 TeV	8.000×10^7	4.065	79.826	110.926	45.767	240.583	1.494×10^6
100. TeV	1.000×10^8	4.096	99.994	138.821	58.325	301.236	1.568×10^6