Table 205: Muons in Naphtalene ($C_{10}H_8$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.53053	1.145	68.4	0.14766	3.2654	0.1374	2.5429	3.2274	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	7.703				7.703	7.168×10^{-1}
14.0 MeV	5.616×10^1	6.006				6.006	1.311×10^0
20.0 MeV	6.802×10^1	4.689				4.689	2.455×10^0
30.0 MeV	8.509×10^1	3.636				3.636	4.911×10^0
40.0 MeV	1.003×10^2	3.104				3.104	7.907×10^0
80.0 MeV	1.527×10^2	2.326				2.326	2.326×10^1
100. MeV	1.764×10^2	2.178				2.178	3.217×10^1
140. MeV	2.218×10^2	2.028				2.028	5.130×10^1
200. MeV	2.868×10^2	1.941				1.941	8.166×10^1
300. MeV	3.917×10^2	1.907			0.000	1.907	1.338×10^2
318. MeV	4.105×10^2	1.906			0.000	1.907	*Minimum ionization*
400. MeV	4.945×10^2	1.912			0.000	1.913	1.862×10^2
800. MeV	8.995×10^2	1.983	0.000		0.000	1.984	3.916×10^2
1.00 GeV	1.101×10^3	2.016	0.000		0.000	2.016	4.916×10^2
1.40 GeV	1.502×10^3	2.069	0.000		0.001	2.070	6.873×10^2
2.00 GeV	2.103×10^3	2.127	0.000	0.000	0.001	2.129	9.729×10^2
3.00 GeV	3.104×10^3	2.193	0.001	0.001	0.001	2.196	1.435×10^3
4.00 GeV	4.104×10^3	2.239	0.001	0.001	0.002	2.243	1.885×10^3
8.00 GeV	8.105×10^3	2.345	0.003	0.003	0.004	2.354	3.620×10^3
10.0 GeV	1.011×10^4	2.377	0.004	0.004	0.005	2.389	4.463×10^3
14.0 GeV	1.411×10^4	2.423	0.006	0.006	0.007	2.442	6.118×10^3
20.0 GeV	2.011×10^4	2.470	0.009	0.011	0.009	2.499	8.545×10^3
30.0 GeV	3.011×10^4	2.521	0.015	0.018	0.014	2.568	1.249×10^4
40.0 GeV	4.011×10^4	2.556	0.021	0.027	0.018	2.622	1.634×10^4
80.0 GeV	8.011×10^4	2.636	0.049	0.066	0.034	2.785	3.112×10^4
100. GeV	1.001×10^5	2.661	0.064	0.087	0.043	2.854	3.821×10^4
140. GeV	1.401×10^5	2.698	0.094	0.130	0.059	2.982	5.191×10^4
200. GeV	2.001×10^5	2.737	0.142	0.200	0.084	3.163	7.144×10^4
300. GeV	3.001×10^5	2.781	0.224	0.318	0.126	3.449	1.017×10^5
400. GeV	4.001×10^5	2.812	0.309	0.442	0.168	3.731	1.296×10^5
800. GeV	8.001×10^5	2.888	0.665	0.956	0.340	4.849	2.233×10^5
1.00 TeV	1.000×10^6	2.913	0.848	1.223	0.427	5.411	2.623×10^5
1.16 TeV	1.161×10^6	2.929	0.996	1.435	0.498	5.859	*Muon critical energy*
1.40 TeV	1.400×10^6	2.950	1.219	1.753	0.606	6.528	3.296×10^5
2.00 TeV	2.000×10^6	2.991	1.789	2.567	0.877	8.223	4.113×10^5
3.00 TeV	3.000×10^6	3.037	2.744	3.921	1.344	11.047	5.159×10^5
4.00 TeV	4.000×10^6	3.071	3.717	5.295	1.819	13.902	5.964×10^5
8.00 TeV	8.000×10^6	3.153	7.659	10.832	3.798	25.442	8.060×10^5
10.0 TeV	1.000×10^7	3.180	9.653	13.621	4.818	31.272	8.768×10^5
14.0 TeV	1.400×10^7	3.221	13.633	19.178	6.919	42.951	9.855×10^5
20.0 TeV	2.000×10^7	3.266	19.655	27.561	10.149	60.631	1.102×10^6
30.0 TeV	3.000×10^7	3.317	29.682	41.508	15.757	90.264	1.237×10^6
40.0 TeV	4.000×10^7	3.354	39.766	55.501	21.513	120.135	1.333×10^6
80.0 TeV	8.000×10^7	3.446	80.181	111.525	45.682	240.834	1.563×10^6
100. TeV	1.000×10^8	3.476	100.436	139.571	58.215	301.698	1.637×10^6