

**Table 110: Muons in Anthracene (C<sub>14</sub>H<sub>10</sub>)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.52740	1.283	69.5	0.14677	3.2831	0.1146	2.5213	3.1514	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]	
10.0 MeV	$4.704 \times 10^1$	7.642				7.642	$7.227 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.959				5.959	$1.322 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.652				4.652	$2.474 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.608				3.608	$4.950 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.080				3.080	$7.969 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.305				2.305	$2.345 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.159				2.159	$3.244 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.010				2.010	$5.173 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.923				1.924	$8.237 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.890			0.000	1.890	$1.350 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.889			0.000	1.890	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.895			0.000	1.895	$1.878 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.965	0.000		0.000	1.966	$3.952 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.997	0.000		0.000	1.998	$4.961 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.049	0.000		0.001	2.050	$6.936 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.107	0.000	0.000	0.001	2.109	$9.819 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.173	0.001	0.001	0.001	2.175	$1.448 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.218	0.001	0.001	0.002	2.222	$1.903 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.322	0.003	0.003	0.004	2.332	$3.655 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.354	0.004	0.004	0.005	2.367	$4.506 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.400	0.006	0.006	0.007	2.419	$6.176 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.447	0.009	0.011	0.009	2.476	$8.626 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.498	0.015	0.018	0.014	2.545	$1.261 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.532	0.022	0.027	0.018	2.599	$1.649 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.612	0.049	0.066	0.034	2.761	$3.140 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.636	0.064	0.087	0.043	2.830	$3.855 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.673	0.094	0.131	0.059	2.958	$5.237 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.712	0.142	0.201	0.084	3.139	$7.206 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.756	0.224	0.319	0.126	3.426	$1.025 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.787	0.310	0.443	0.168	3.708	$1.306 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.862	0.666	0.959	0.340	4.827	$2.248 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.887	0.851	1.226	0.427	5.390	$2.640 \times 10^5$	
1.15 TeV	$1.149 \times 10^6$	2.902	0.987	1.422	0.493	5.805	<i>Muon critical energy</i>	
1.40 TeV	$1.400 \times 10^6$	2.924	1.222	1.758	0.605	6.509	$3.315 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.964	1.793	2.573	0.876	8.207	$4.134 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.011	2.751	3.930	1.343	11.035	$5.181 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.044	3.725	5.308	1.818	13.895	$5.987 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.126	7.675	10.857	3.796	25.454	$8.083 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.153	9.673	13.653	4.815	31.294	$8.790 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.194	13.661	19.223	6.915	42.993	$9.877 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.238	19.695	27.626	10.142	60.701	$1.105 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.289	29.742	41.606	15.745	90.382	$1.239 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.326	39.846	55.632	21.497	120.300	$1.334 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.417	80.336	111.787	45.645	241.186	$1.565 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.447	100.629	139.899	58.167	302.142	$1.639 \times 10^6$	