

Muons in tetrachloroethylene (C₂C₁₄)

	$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
	0.48241	1.625	159.2	0.18595	3.0156	0.1713	2.9083	4.6619	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	6.248				6.248		8.915×10^{-1}	
14.0 MeV	5.616×10^1	4.893				4.893		1.622×10^0	
20.0 MeV	6.802×10^1	3.836				3.836		3.023×10^0	
30.0 MeV	8.509×10^1	2.988				2.988		6.017×10^0	
40.0 MeV	1.003×10^2	2.558				2.558		9.657×10^0	
80.0 MeV	1.527×10^2	1.932				1.932		2.821×10^1	
100. MeV	1.764×10^2	1.819				1.819		3.891×10^1	
140. MeV	2.218×10^2	1.705				1.706		6.172×10^1	
200. MeV	2.868×10^2	1.645				1.645		9.767×10^1	
277. MeV	3.683×10^2	1.629			0.000	1.630		<i>Minimum ionization</i>	
300. MeV	3.917×10^2	1.630			0.000	1.630		1.589×10^2	
400. MeV	4.945×10^2	1.644			0.000	1.645		2.200×10^2	
800. MeV	8.995×10^2	1.728	0.000		0.000	1.728		4.571×10^2	
1.00 GeV	1.101×10^3	1.763	0.000		0.000	1.764		5.717×10^2	
1.40 GeV	1.502×10^3	1.819	0.001	0.000	0.001	1.820		7.947×10^2	
2.00 GeV	2.103×10^3	1.879	0.001	0.001	0.001	1.882		1.119×10^3	
3.00 GeV	3.104×10^3	1.948	0.002	0.001	0.001	1.952		1.640×10^3	
4.00 GeV	4.104×10^3	1.995	0.003	0.002	0.002	2.002		2.145×10^3	
8.00 GeV	8.105×10^3	2.101	0.007	0.007	0.004	2.118		4.081×10^3	
10.0 GeV	1.011×10^4	2.133	0.009	0.009	0.005	2.156		5.016×10^3	
14.0 GeV	1.411×10^4	2.179	0.014	0.015	0.006	2.213		6.846×10^3	
20.0 GeV	2.011×10^4	2.224	0.021	0.024	0.009	2.278		9.516×10^3	
30.0 GeV	3.011×10^4	2.272	0.034	0.042	0.013	2.362		1.382×10^4	
40.0 GeV	4.011×10^4	2.305	0.049	0.062	0.017	2.432		1.799×10^4	
80.0 GeV	8.011×10^4	2.378	0.110	0.149	0.032	2.670		3.366×10^4	
100. GeV	1.001×10^5	2.401	0.142	0.196	0.040	2.780		4.100×10^4	
140. GeV	1.401×10^5	2.434	0.209	0.294	0.056	2.994		5.486×10^4	
200. GeV	2.001×10^5	2.470	0.314	0.449	0.079	3.313		7.391×10^4	
300. GeV	3.001×10^5	2.510	0.494	0.710	0.119	3.833		1.019×10^5	
400. GeV	4.001×10^5	2.538	0.680	0.981	0.158	4.358		1.264×10^5	
548. GeV	5.479×10^5	2.569	0.962	1.390	0.217	5.139		<i>Muon critical energy</i>	
800. GeV	8.001×10^5	2.607	1.452	2.096	0.320	6.476		2.012×10^5	
1.00 TeV	1.000×10^6	2.630	1.850	2.669	0.402	7.552		2.298×10^5	
1.40 TeV	1.400×10^6	2.664	2.649	3.813	0.570	9.696		2.764×10^5	
2.00 TeV	2.000×10^6	2.701	3.874	5.561	0.825	12.962		3.298×10^5	
3.00 TeV	3.000×10^6	2.743	5.923	8.469	1.263	18.398		3.942×10^5	
4.00 TeV	4.000×10^6	2.773	8.003	11.411	1.708	23.896		4.418×10^5	
8.00 TeV	8.000×10^6	2.848	16.406	23.251	3.560	46.065		5.603×10^5	
10.0 TeV	1.000×10^7	2.873	20.648	29.208	4.512	57.241		5.991×10^5	
14.0 TeV	1.400×10^7	2.910	29.116	41.084	6.471	79.582		6.581×10^5	
20.0 TeV	2.000×10^7	2.951	41.911	58.983	9.477	113.323		7.210×10^5	
30.0 TeV	3.000×10^7	2.998	63.188	88.779	14.686	169.651		7.927×10^5	
40.0 TeV	4.000×10^7	3.031	84.554	118.660	20.026	226.273		8.435×10^5	
80.0 TeV	8.000×10^7	3.114	170.213	238.272	42.383	453.983		9.659×10^5	
100. TeV	1.000×10^8	3.142	213.142	298.140	53.952	568.376		1.005×10^6	