Muons in 1,2-dichloroethane $C_2H_4C_{12}$

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.50526	1.235	111.9	0.13383	3.1675	0.1375	2.9529	4.1849	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	6.875				6.875	8.071×10^{-1}
14.0 MeV	5.616×10^1	5.373				5.373	1.472×10^0
20.0 MeV	6.802×10^1	4.205				4.205	2.749×10^0
30.0 MeV	8.509×10^1	3.268				3.269	5.484×10^0
40.0 MeV	1.003×10^2	2.795				2.795	8.814×10^0
80.0 MeV	1.527×10^2	2.103				2.103	2.583×10^1
100. MeV	1.764×10^2	1.975				1.975	3.567×10^1
140. MeV	2.218×10^2	1.846				1.846	5.671×10^1
200. MeV	2.868×10^2	1.775				1.775	8.999×10^1
293. MeV	3.844×10^2	1.753			0.000	1.753	*Minimum ionization*
300. MeV	3.917×10^2	1.753			0.000	1.753	1.468×10^2
400. MeV	4.945×10^2	1.764			0.000	1.764	2.038×10^2
800. MeV	8.995×10^2	1.844	0.000		0.000	1.845	4.255×10^2
1.00 GeV	1.101×10^3	1.879	0.000		0.000	1.879	5.329×10^2
1.40 GeV	1.502×10^3	1.934	0.001	0.000	0.001	1.936	7.424×10^2
2.00 GeV	2.103×10^3	1.996	0.001	0.000	0.001	1.998	1.047×10^3
3.00 GeV	3.104×10^3	2.065	0.002	0.001	0.001	2.069	1.538×10^3
4.00 GeV	4.104×10^3	2.113	0.002	0.002	0.002	2.119	2.016×10^3
8.00 GeV	8.105×10^3	2.221	0.006	0.006	0.004	2.237	3.847×10^3
10.0 GeV	1.011×10^4	2.254	0.008	0.008	0.005	2.275	4.733×10^3
14.0 GeV	1.411×10^4	2.301	0.012	0.013	0.006	2.333	6.468×10^3
20.0 GeV	2.011×10^4	2.348	0.019	0.022	0.009	2.398	9.004×10^3
30.0 GeV	3.011×10^4	2.398	0.031	0.038	0.013	2.480	1.310×10^4
40.0 GeV	4.011×10^4	2.432	0.044	0.056	0.017	2.549	1.708×10^4
80.0 GeV	8.011×10^4	2.508	0.099	0.135	0.033	2.776	3.209×10^4
100. GeV	1.001×10^5	2.532	0.129	0.177	0.041	2.879	3.916×10^4
140. GeV	1.401×10^5	2.567	0.189	0.266	0.057	3.080	5.259×10^4
200. GeV	2.001×10^5	2.604	0.284	0.406	0.080	3.376	7.119×10^4
300. GeV	3.001×10^5	2.646	0.447	0.642	0.120	3.857	9.889×10^4
400. GeV	4.001×10^5	2.676	0.616	0.888	0.160	4.341	1.233×10^5
627. GeV	6.275×10^5	2.723	1.011	1.459	0.253	5.447	*Muon critical energy*
800. GeV	8.001×10^5	2.748	1.317	1.900	0.324	6.290	1.994×10^5
1.00 TeV	1.000×10^6	2.772	1.678	2.420	0.407	7.277	2.290×10^5
1.40 TeV	1.400×10^6	2.808	2.403	3.457	0.578	9.247	2.776×10^5
2.00 TeV	2.000×10^6	2.846	3.516	5.045	0.836	12.244	3.339×10^5
3.00 TeV	3.000×10^6	2.890	5.378	7.685	1.280	17.234	4.024×10^5
4.00 TeV	4.000×10^6	2.922	7.268	10.358	1.732	22.281	4.533×10^5
8.00 TeV	8.000×10^6	3.001	14.909	21.113	3.611	42.634	5.809×10^5
10.0 TeV	1.000×10^7	3.027	18.767	26.525	4.578	52.897	6.229×10^5
14.0 TeV	1.400×10^7	3.066	26.470	37.314	6.567	73.417	6.868×10^5
20.0 TeV	2.000×10^7	3.108	38.110	53.576	9.622	104.416	7.550×10^5
30.0 TeV	3.000×10^7	3.157	57.470	80.645	14.916	156.189	8.328×10^5
40.0 TeV	4.000×10^7	3.193	76.914	107.793	20.346	208.246	8.881×10^5
80.0 TeV	8.000×10^7	3.280	154.871	216.464	43.095	417.710	1.021×10^6
100. TeV	1.000×10^8	3.308	193.942	270.857	54.873	522.981	1.064×10^6