Table 142: Muons in Chlorobenzene C_6H_5Cl

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.51529	1.106	89.1	0.09856	3.3797	0.1714	2.9272	3.8201	0.00

T	p [MeV/c]	Ionization [MeV cm^2/g]	Brems [MeV cm^2/g]	Pair prod [MeV cm^2/g]	Photonucl [MeV cm^2/g]	Total [MeV cm^2/g]	CSDA range [g/cm^2]
10.0 MeV	4.704×10^1	7.229				7.229	7.658×10^{-1}
14.0 MeV	5.616×10^1	5.644				5.644	1.399×10^0
20.0 MeV	6.802×10^1	4.411				4.411	2.615×10^0
30.0 MeV	8.509×10^1	3.425				3.425	5.224×10^0
40.0 MeV	1.003×10^2	2.926				2.926	8.403×10^0
80.0 MeV	1.527×10^2	2.200				2.200	2.467×10^1
100. MeV	1.764×10^2	2.065				2.065	3.408×10^1
140. MeV	2.218×10^2	1.926				1.926	5.423×10^1
200. MeV	2.868×10^2	1.848				1.848	8.615×10^1
300. MeV	3.917×10^2	1.821			0.000	1.821	1.408×10^2
303. MeV	3.950×10^2	1.821			0.000	1.821	*Minimum ionization*
400. MeV	4.945×10^2	1.830			0.000	1.830	1.956×10^2
800. MeV	8.995×10^2	1.906	0.000		0.000	1.906	4.098×10^2
1.00 GeV	1.101×10^3	1.940	0.000		0.000	1.940	5.138×10^2
1.40 GeV	1.502×10^3	1.994	0.000	0.000	0.001	1.995	7.169×10^2
2.00 GeV	2.103×10^3	2.054	0.001	0.000	0.001	2.056	1.013×10^3
3.00 GeV	3.104×10^3	2.122	0.001	0.001	0.001	2.126	1.491×10^3
4.00 GeV	4.104×10^3	2.169	0.002	0.001	0.002	2.174	1.956×10^3
8.00 GeV	8.105×10^3	2.276	0.004	0.004	0.004	2.289	3.743×10^3
10.0 GeV	1.011×10^4	2.309	0.006	0.006	0.005	2.325	4.610×10^3
14.0 GeV	1.411×10^4	2.356	0.009	0.009	0.006	2.380	6.309×10^3
20.0 GeV	2.011×10^4	2.403	0.014	0.016	0.009	2.441	8.796×10^3
30.0 GeV	3.011×10^4	2.453	0.022	0.027	0.013	2.516	1.283×10^4
40.0 GeV	4.011×10^4	2.487	0.031	0.040	0.017	2.576	1.675×10^4
80.0 GeV	8.011×10^4	2.565	0.071	0.096	0.034	2.767	3.171×10^4
100. GeV	1.001×10^5	2.590	0.093	0.127	0.042	2.851	3.883×10^4
140. GeV	1.401×10^5	2.626	0.136	0.190	0.058	3.011	5.248×10^4
200. GeV	2.001×10^5	2.663	0.205	0.291	0.082	3.242	7.168×10^4
300. GeV	3.001×10^5	2.706	0.323	0.462	0.124	3.615	1.009×10^5
400. GeV	4.001×10^5	2.737	0.445	0.639	0.165	3.986	1.272×10^5
800. GeV	8.001×10^5	2.810	0.953	1.374	0.333	5.471	2.125×10^5
843. GeV	8.432×10^5	2.816	1.010	1.455	0.351	5.632	*Muon critical energy*
1.00 TeV	1.000×10^6	2.834	1.216	1.753	0.418	6.221	2.468×10^5
1.40 TeV	1.400×10^6	2.871	1.744	2.508	0.593	7.716	3.044×10^5
2.00 TeV	2.000×10^6	2.910	2.554	3.665	0.858	9.987	3.726×10^5
3.00 TeV	3.000×10^6	2.955	3.910	5.588	1.315	13.769	4.575×10^5
4.00 TeV	4.000×10^6	2.988	5.289	7.538	1.779	17.594	5.216×10^5
8.00 TeV	8.000×10^6	3.068	10.867	15.385	3.712	33.033	6.849×10^5
10.0 TeV	1.000×10^7	3.094	13.686	19.336	4.708	40.825	7.393×10^5
14.0 TeV	1.400×10^7	3.134	19.313	27.210	6.758	56.416	8.223×10^5
20.0 TeV	2.000×10^7	3.177	27.821	39.083	9.907	79.988	9.112×10^5
30.0 TeV	3.000×10^7	3.227	41.976	58.841	15.372	119.417	1.013×10^6
40.0 TeV	4.000×10^7	3.263	56.201	78.661	20.979	159.103	1.085×10^6
80.0 TeV	8.000×10^7	3.352	113.219	158.002	44.496	319.069	1.259×10^6
100. TeV	1.000×10^8	3.381	141.796	197.716	56.683	399.576	1.315×10^6