Muons in 1,2-dichlorobenzene ($C_6H_4Cl_2$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.50339	1.305	106.5	0.16010	3.0836	0.1587	2.8276	4.0348	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	6.895				6.895	8.043×10^{-1}
14.0 MeV	5.616×10^1	5.388				5.388	1.467×10^0
20.0 MeV	6.802×10^1	4.215				4.215	2.741×10^0
30.0 MeV	8.509×10^1	3.276				3.276	5.469×10^0
40.0 MeV	1.003×10^2	2.800				2.801	8.792×10^0
80.0 MeV	1.527×10^2	2.108				2.108	2.578×10^1
100. MeV	1.764×10^2	1.979				1.979	3.559×10^1
140. MeV	2.218×10^2	1.848				1.848	5.661×10^1
200. MeV	2.868×10^2	1.775				1.776	8.985×10^1
298. MeV	3.894×10^2	1.752			0.000	1.752	*Minimum ionization*
300. MeV	3.917×10^2	1.752			0.000	1.752	1.467×10^2
400. MeV	4.945×10^2	1.762			0.000	1.763	2.037×10^2
800. MeV	8.995×10^2	1.840	0.000		0.000	1.841	4.257×10^2
1.00 GeV	1.101×10^3	1.874	0.000		0.000	1.875	5.333×10^2
1.40 GeV	1.502×10^3	1.929	0.001	0.000	0.001	1.931	7.434×10^2
2.00 GeV	2.103×10^3	1.989	0.001	0.000	0.001	1.992	1.049×10^3
3.00 GeV	3.104×10^3	2.057	0.001	0.001	0.001	2.061	1.542×10^3
4.00 GeV	4.104×10^3	2.104	0.002	0.002	0.002	2.110	2.021×10^3
8.00 GeV	8.105×10^3	2.211	0.005	0.005	0.004	2.225	3.861×10^3
10.0 GeV	1.011×10^4	2.243	0.007	0.007	0.005	2.262	4.752×10^3
14.0 GeV	1.411×10^4	2.290	0.010	0.011	0.006	2.318	6.498×10^3
20.0 GeV	2.011×10^4	2.336	0.016	0.018	0.009	2.379	9.051×10^3
30.0 GeV	3.011×10^4	2.386	0.026	0.032	0.013	2.457	1.318×10^4
40.0 GeV	4.011×10^4	2.419	0.037	0.047	0.017	2.520	1.720×10^4
80.0 GeV	8.011×10^4	2.495	0.083	0.113	0.033	2.725	3.244×10^4
100. GeV	1.001×10^5	2.519	0.108	0.149	0.041	2.817	3.966×10^4
140. GeV	1.401×10^5	2.554	0.159	0.223	0.057	2.994	5.343×10^4
200. GeV	2.001×10^5	2.591	0.239	0.341	0.081	3.252	7.265×10^4
300. GeV	3.001×10^5	2.633	0.376	0.539	0.122	3.670	1.016×10^5
400. GeV	4.001×10^5	2.662	0.518	0.746	0.163	4.089	1.274×10^5
723. GeV	7.235×10^5	2.724	0.994	1.433	0.296	5.448	*Muon critical energy*
800. GeV	8.001×10^5	2.734	1.109	1.599	0.329	5.772	2.093×10^5
1.00 TeV	1.000×10^6	2.758	1.413	2.039	0.413	6.623	2.416×10^5
1.40 TeV	1.400×10^6	2.793	2.026	2.915	0.586	8.320	2.954×10^5
2.00 TeV	2.000×10^6	2.832	2.965	4.256	0.848	10.901	3.583×10^5
3.00 TeV	3.000×10^6	2.876	4.537	6.486	1.298	15.198	4.356×10^5
4.00 TeV	4.000×10^6	2.908	6.134	8.745	1.757	19.544	4.935×10^5
8.00 TeV	8.000×10^6	2.986	12.593	17.837	3.664	37.079	6.396×10^5
10.0 TeV	1.000×10^7	3.011	15.855	22.413	4.645	45.925	6.880×10^5
14.0 TeV	1.400×10^7	3.051	22.366	31.534	6.667	63.617	7.617×10^5
20.0 TeV	2.000×10^7	3.093	32.208	45.284	9.770	90.356	8.405×10^5
30.0 TeV	3.000×10^7	3.142	48.581	68.171	15.153	135.047	9.304×10^5
40.0 TeV	4.000×10^7	3.177	65.029	91.126	20.674	180.007	9.943×10^5
80.0 TeV	8.000×10^7	3.264	130.963	183.016	43.821	361.065	1.148×10^6
100. TeV	1.000×10^8	3.292	164.008	229.011	55.810	452.122	1.198×10^6