

## Muons in chlorobenzene C<sub>6</sub>H<sub>5</sub>Cl

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.51529	1.106	89.1	0.09856	3.3797	0.1714	2.9272	3.8201	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
				[MeV cm <sup>2</sup> /g]					
10.0 MeV	$4.704 \times 10^1$	7.229				7.229		$7.658 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.644				5.644		$1.399 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.411				4.411		$2.615 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.425				3.425		$5.224 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	2.926				2.926		$8.403 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.200				2.200		$2.467 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.065				2.065		$3.408 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.926				1.926		$5.423 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.848				1.848		$8.615 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.821			0.000	1.821		$1.408 \times 10^2$	
303. MeV	$3.950 \times 10^2$	1.821			0.000	1.821			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	1.830			0.000	1.830		$1.956 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.906	0.000		0.000	1.906		$4.098 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.940	0.000		0.000	1.940		$5.138 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.994	0.000	0.000	0.001	1.995		$7.169 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.054	0.001	0.000	0.001	2.056		$1.013 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	2.122	0.001	0.001	0.001	2.126		$1.491 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.169	0.002	0.001	0.002	2.174		$1.956 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.276	0.004	0.004	0.004	2.289		$3.743 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.309	0.006	0.006	0.005	2.325		$4.610 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.356	0.009	0.009	0.006	2.380		$6.309 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.403	0.014	0.016	0.009	2.441		$8.796 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.453	0.022	0.027	0.013	2.516		$1.283 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.487	0.031	0.040	0.017	2.576		$1.675 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.565	0.071	0.096	0.034	2.767		$3.171 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.590	0.093	0.127	0.042	2.851		$3.883 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.626	0.136	0.190	0.058	3.011		$5.248 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.663	0.205	0.291	0.082	3.242		$7.168 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.706	0.323	0.462	0.124	3.615		$1.009 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.737	0.445	0.639	0.165	3.986		$1.272 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.810	0.953	1.374	0.333	5.471		$2.125 \times 10^5$	
843. GeV	$8.432 \times 10^5$	2.816	1.010	1.455	0.351	5.632			<i>Muon critical energy</i>
1.00 TeV	$1.000 \times 10^6$	2.834	1.216	1.753	0.418	6.221		$2.468 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.871	1.744	2.508	0.593	7.716		$3.044 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.910	2.554	3.665	0.858	9.987		$3.726 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.955	3.910	5.588	1.315	13.769		$4.575 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.988	5.289	7.538	1.779	17.594		$5.216 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.068	10.867	15.385	3.712	33.033		$6.849 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.094	13.686	19.336	4.708	40.825		$7.393 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.134	19.313	27.210	6.758	56.416		$8.223 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.177	27.821	39.083	9.907	79.988		$9.112 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	3.227	41.976	58.841	15.372	119.417		$1.013 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.263	56.201	78.661	20.979	159.103		$1.085 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.352	113.219	158.002	44.496	319.069		$1.259 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.381	141.796	197.716	56.683	399.576		$1.315 \times 10^6$	