

## Muons in terphenyl (C<sub>18</sub>H<sub>10</sub>)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.52148	1.234	71.7	0.14964	3.2685	0.1322	2.5429	3.2639	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	$4.704 \times 10^1$	7.526				7.526		$7.340 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.869				5.870		$1.342 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.583				4.583		$2.512 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.555				3.555		$5.025 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.035				3.035		$8.089 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.274				2.274		$2.379 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.131				2.131		$3.290 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.984				1.984		$5.245 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.900				1.900		$8.347 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.868			0.000	1.868		$1.367 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.867			0.000	1.867			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	1.873			0.000	1.874		$1.902 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.944	0.000		0.000	1.944		$3.998 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.976	0.000		0.000	1.977		$5.018 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.028	0.000		0.001	2.029		$7.014 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.086	0.000	0.000	0.001	2.087		$9.927 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.151	0.001	0.001	0.001	2.154		$1.464 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.196	0.001	0.001	0.002	2.200		$1.923 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.300	0.003	0.003	0.004	2.310		$3.692 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.332	0.004	0.004	0.005	2.344		$4.551 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.377	0.006	0.006	0.007	2.396		$6.238 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.423	0.009	0.011	0.009	2.453		$8.711 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.474	0.015	0.019	0.014	2.521		$1.273 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.508	0.022	0.027	0.018	2.575		$1.665 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.586	0.049	0.066	0.034	2.737		$3.170 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.611	0.064	0.088	0.043	2.805		$3.891 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.647	0.095	0.132	0.059	2.933		$5.285 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.686	0.143	0.202	0.084	3.114		$7.270 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.729	0.225	0.321	0.126	3.401		$1.034 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.760	0.311	0.445	0.168	3.684		$1.316 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.834	0.669	0.964	0.339	4.807		$2.264 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.859	0.854	1.232	0.426	5.371		$2.658 \times 10^5$	
1.13 TeV	$1.134 \times 10^6$	2.872	0.978	1.409	0.485	5.745			<i>Muon critical energy</i>
1.40 TeV	$1.400 \times 10^6$	2.895	1.227	1.766	0.604	6.494		$3.334 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.935	1.801	2.585	0.875	8.197		$4.155 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.981	2.762	3.949	1.342	11.034		$5.203 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.014	3.741	5.332	1.816	13.903		$6.009 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.095	7.706	10.906	3.791	25.498		$8.102 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.121	9.712	13.715	4.808	31.356		$8.808 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.162	13.714	19.309	6.905	43.091		$9.892 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.206	19.771	27.749	10.128	60.853		$1.106 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.256	29.855	41.791	15.722	90.625		$1.240 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.293	39.995	55.879	21.466	120.633		$1.335 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.382	80.630	112.283	45.576	241.871		$1.565 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.412	100.995	140.519	58.076	303.003		$1.638 \times 10^6$	