

## Muons in cyclohexane (C<sub>6</sub>H<sub>12</sub>)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.57034	0.779	56.4	0.12035	3.4278	0.1728	2.5549	3.1544	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	$4.704 \times 10^1$	8.485				8.485			$6.497 \times 10^{-1}$
14.0 MeV	$5.616 \times 10^1$	6.610				6.610			$1.189 \times 10^0$
20.0 MeV	$6.802 \times 10^1$	5.156				5.156			$2.229 \times 10^0$
30.0 MeV	$8.509 \times 10^1$	3.995				3.995			$4.464 \times 10^0$
40.0 MeV	$1.003 \times 10^2$	3.408				3.408			$7.192 \times 10^0$
80.0 MeV	$1.527 \times 10^2$	2.553				2.553			$2.119 \times 10^1$
100. MeV	$1.764 \times 10^2$	2.392				2.392			$2.930 \times 10^1$
140. MeV	$2.218 \times 10^2$	2.225				2.225			$4.672 \times 10^1$
200. MeV	$2.868 \times 10^2$	2.128				2.128			$7.440 \times 10^1$
300. MeV	$3.917 \times 10^2$	2.089			0.000	2.089			$1.220 \times 10^2$
328. MeV	$4.211 \times 10^2$	2.087			0.000	2.088			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	2.093			0.000	2.093			$1.698 \times 10^2$
800. MeV	$8.995 \times 10^2$	2.166	0.000		0.000	2.166			$3.578 \times 10^2$
1.00 GeV	$1.101 \times 10^3$	2.200	0.000		0.000	2.201			$4.494 \times 10^2$
1.40 GeV	$1.502 \times 10^3$	2.256	0.000		0.001	2.257			$6.288 \times 10^2$
2.00 GeV	$2.103 \times 10^3$	2.317	0.000	0.000	0.001	2.319			$8.908 \times 10^2$
3.00 GeV	$3.104 \times 10^3$	2.388	0.001	0.000	0.001	2.390			$1.315 \times 10^3$
4.00 GeV	$4.104 \times 10^3$	2.436	0.001	0.001	0.002	2.440			$1.729 \times 10^3$
8.00 GeV	$8.105 \times 10^3$	2.549	0.003	0.003	0.004	2.558			$3.325 \times 10^3$
10.0 GeV	$1.011 \times 10^4$	2.583	0.004	0.004	0.005	2.595			$4.101 \times 10^3$
14.0 GeV	$1.411 \times 10^4$	2.633	0.006	0.006	0.007	2.651			$5.625 \times 10^3$
20.0 GeV	$2.011 \times 10^4$	2.683	0.009	0.010	0.009	2.711			$7.861 \times 10^3$
30.0 GeV	$3.011 \times 10^4$	2.738	0.015	0.018	0.014	2.784			$1.150 \times 10^4$
40.0 GeV	$4.011 \times 10^4$	2.775	0.021	0.026	0.018	2.840			$1.505 \times 10^4$
80.0 GeV	$8.011 \times 10^4$	2.861	0.047	0.063	0.035	3.007			$2.872 \times 10^4$
100. GeV	$1.001 \times 10^5$	2.888	0.061	0.084	0.043	3.076			$3.529 \times 10^4$
140. GeV	$1.401 \times 10^5$	2.928	0.091	0.126	0.060	3.204			$4.803 \times 10^4$
200. GeV	$2.001 \times 10^5$	2.970	0.137	0.193	0.085	3.385			$6.624 \times 10^4$
300. GeV	$3.001 \times 10^5$	3.017	0.216	0.307	0.127	3.668			$9.461 \times 10^4$
400. GeV	$4.001 \times 10^5$	3.051	0.299	0.427	0.170	3.946			$1.209 \times 10^5$
800. GeV	$8.001 \times 10^5$	3.132	0.644	0.925	0.343	5.044			$2.103 \times 10^5$
1.00 TeV	$1.000 \times 10^6$	3.159	0.822	1.183	0.430	5.595			$2.479 \times 10^5$
1.29 TeV	$1.287 \times 10^6$	3.189	1.079	1.550	0.559	6.378			<i>Muon critical energy</i>
1.40 TeV	$1.400 \times 10^6$	3.199	1.182	1.697	0.611	6.689			$3.132 \times 10^5$
2.00 TeV	$2.000 \times 10^6$	3.243	1.736	2.485	0.884	8.348			$3.934 \times 10^5$
3.00 TeV	$3.000 \times 10^6$	3.293	2.665	3.799	1.355	11.112			$4.969 \times 10^5$
4.00 TeV	$4.000 \times 10^6$	3.329	3.612	5.132	1.834	13.907			$5.772 \times 10^5$
8.00 TeV	$8.000 \times 10^6$	3.417	7.450	10.502	3.831	25.201			$7.878 \times 10^5$
10.0 TeV	$1.000 \times 10^7$	3.446	9.393	13.208	4.860	30.908			$8.594 \times 10^5$
14.0 TeV	$1.400 \times 10^7$	3.490	13.272	18.599	6.982	42.344			$9.695 \times 10^5$
20.0 TeV	$2.000 \times 10^7$	3.538	19.144	26.732	10.243	59.658			$1.088 \times 10^6$
30.0 TeV	$3.000 \times 10^7$	3.594	28.924	40.262	15.907	88.687			$1.225 \times 10^6$
40.0 TeV	$4.000 \times 10^7$	3.633	38.762	53.838	21.722	117.955			$1.322 \times 10^6$
80.0 TeV	$8.000 \times 10^7$	3.732	78.203	108.188	46.153	236.276			$1.557 \times 10^6$
100. TeV	$1.000 \times 10^8$	3.764	97.977	135.397	58.825	295.964			$1.633 \times 10^6$