

## Muons in aniline (C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.53699	1.023	66.2	0.13134	3.3434	0.1618	2.5805	3.2622	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	$4.704 \times 10^1$	7.829				7.830		$7.051 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	6.104				6.104		$1.290 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.764				4.764		$2.415 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.694				3.694		$4.833 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.153				3.153		$7.782 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.365				2.365		$2.290 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.215				2.215		$3.166 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.062				2.062		$5.046 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.974				1.974		$8.032 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.939			0.000	1.939		$1.316 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.939			0.000	1.939			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	1.944			0.000	1.945		$1.831 \times 10^2$	
800. MeV	$8.995 \times 10^2$	2.016	0.000		0.000	2.016		$3.852 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.049	0.000		0.000	2.049		$4.836 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.102	0.000		0.001	2.103		$6.761 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.161	0.000	0.000	0.001	2.163		$9.572 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.228	0.001	0.001	0.001	2.231		$1.412 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.275	0.001	0.001	0.002	2.279		$1.855 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.381	0.003	0.003	0.004	2.391		$3.564 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.414	0.004	0.004	0.005	2.427		$4.394 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.461	0.006	0.006	0.007	2.480		$6.023 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.509	0.009	0.011	0.009	2.538		$8.413 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.560	0.015	0.019	0.014	2.608		$1.230 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.595	0.022	0.027	0.018	2.663		$1.609 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.676	0.050	0.067	0.034	2.828		$3.064 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.702	0.065	0.088	0.043	2.897		$3.763 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.739	0.095	0.133	0.059	3.027		$5.113 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.779	0.144	0.203	0.084	3.210		$7.037 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.823	0.227	0.323	0.126	3.500		$1.002 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.855	0.314	0.449	0.168	3.786		$1.277 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.932	0.675	0.971	0.340	4.918		$2.201 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.957	0.862	1.242	0.427	5.487		$2.586 \times 10^5$	
1.16 TeV	$1.163 \times 10^6$	2.974	1.014	1.460	0.500	5.947			<i>Muon critical energy</i>
1.40 TeV	$1.400 \times 10^6$	2.995	1.238	1.780	0.606	6.619		$3.249 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	3.035	1.817	2.606	0.877	8.336		$4.055 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.082	2.788	3.981	1.344	11.195		$5.087 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.116	3.776	5.376	1.819	14.087		$5.881 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.200	7.779	10.996	3.799	25.773		$7.950 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.227	9.805	13.827	4.818	31.678		$8.649 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.269	13.847	19.468	6.920	43.504		$9.722 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.314	19.964	27.978	10.150	61.406		$1.088 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.366	30.151	42.136	15.758	91.410		$1.220 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.403	40.394	56.340	21.515	121.653		$1.315 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.496	81.456	113.208	45.688	243.850		$1.543 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.527	102.039	141.677	58.223	305.467		$1.616 \times 10^6$	