Table 267: Muons in Trichloroethylene (C_2HCl_3)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.48710	1.460	148.1	0.18272	3.0137	0.1803	2.9140	4.6148	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	6.374				6.374	8.731×10^{-1}
14.0 MeV	5.616×10^1	4.990				4.990	1.590×10^0
20.0 MeV	6.802×10^1	3.910				3.910	2.963×10^0
30.0 MeV	8.509×10^1	3.044				3.045	5.902×10^0
40.0 MeV	1.003×10^2	2.606				2.606	9.475×10^0
80.0 MeV	1.527×10^2	1.967				1.967	2.770×10^1
100. MeV	1.764×10^2	1.851				1.851	3.820×10^1
140. MeV	2.218×10^2	1.735				1.735	6.062×10^1
200. MeV	2.868×10^2	1.672				1.672	9.598×10^1
280. MeV	3.708×10^2	1.656			0.000	1.656	*Minimum ionization*
300. MeV	3.917×10^2	1.656			0.000	1.656	1.562×10^2
400. MeV	4.945×10^2	1.670			0.000	1.670	2.164×10^2
800. MeV	8.995×10^2	1.753	0.000		0.000	1.754	4.500×10^2
1.00 GeV	1.101×10^3	1.788	0.000		0.000	1.789	5.629×10^2
1.40 GeV	1.502×10^3	1.844	0.001	0.000	0.001	1.846	7.828×10^2
2.00 GeV	2.103×10^3	1.905	0.001	0.001	0.001	1.908	1.102×10^3
3.00 GeV	3.104×10^3	1.974	0.002	0.001	0.001	1.979	1.616×10^3
4.00 GeV	4.104×10^3	2.022	0.003	0.002	0.002	2.028	2.115×10^3
8.00 GeV	8.105×10^3	2.129	0.007	0.006	0.004	2.146	4.026×10^3
10.0 GeV	1.011×10^4	2.161	0.009	0.009	0.005	2.183	4.950×10^3
14.0 GeV	1.411×10^4	2.207	0.013	0.014	0.006	2.241	6.757×10^3
20.0 GeV	2.011×10^4	2.253	0.020	0.024	0.009	2.306	9.394×10^3
30.0 GeV	3.011×10^4	2.302	0.033	0.041	0.013	2.389	1.365×10^4
40.0 GeV	4.011×10^4	2.334	0.047	0.060	0.017	2.459	1.778×10^4
80.0 GeV	8.011×10^4	2.408	0.107	0.145	0.032	2.692	3.330×10^4
100. GeV	1.001×10^5	2.431	0.138	0.190	0.040	2.800	4.058×10^4
140. GeV	1.401×10^5	2.465	0.203	0.285	0.056	3.010	5.435×10^4
200. GeV	2.001×10^5	2.501	0.305	0.435	0.080	3.321	7.332×10^4
300. GeV	3.001×10^5	2.542	0.479	0.688	0.119	3.829	1.013×10^5
400. GeV	4.001×10^5	2.570	0.660	0.951	0.159	4.341	1.259×10^5
569. GeV	5.692×10^5	2.606	0.973	1.406	0.227	5.212	*Muon critical energy*
800. GeV	8.001×10^5	2.640	1.409	2.034	0.321	6.405	2.013×10^5
1.00 TeV	1.000×10^6	2.663	1.795	2.590	0.404	7.452	2.302×10^5
1.40 TeV	1.400×10^6	2.697	2.571	3.700	0.572	9.540	2.775×10^5
2.00 TeV	2.000×10^6	2.734	3.760	5.397	0.828	12.720	3.318×10^5
3.00 TeV	3.000×10^6	2.777	5.749	8.219	1.268	18.014	3.976×10^5
4.00 TeV	4.000×10^6	2.808	7.768	11.076	1.715	23.367	4.462×10^5
8.00 TeV	8.000×10^6	2.883	15.928	22.570	3.574	44.956	5.675×10^5
10.0 TeV	1.000×10^7	2.908	20.047	28.354	4.531	55.840	6.073×10^5
14.0 TeV	1.400×10^7	2.946	28.270	39.884	6.498	77.599	6.678×10^5
20.0 TeV	2.000×10^7	2.987	40.696	57.261	9.518	110.463	7.323×10^5
30.0 TeV	3.000×10^7	3.034	61.359	86.189	14.751	165.334	8.058×10^5
40.0 TeV	4.000×10^7	3.068	82.110	115.200	20.117	220.495	8.580×10^5
80.0 TeV	8.000×10^7	3.152	165.302	231.329	42.584	442.367	9.836×10^5
100. TeV	1.000×10^8	3.180	206.995	289.453	54.212	553.840	1.024×10^6