Table 198: Muons in Methanol (CH_3OH)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.56176	0.791	67.6	0.08970	3.5477	0.2529	2.7639	3.5160	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	8.169				8.169	6.759×10^{-1}
14.0 MeV	5.616×10^1	6.369				6.369	1.236×10^0
20.0 MeV	6.802×10^1	4.972				4.972	2.315×10^0
30.0 MeV	8.509×10^1	3.855				3.855	4.631×10^0
40.0 MeV	1.003×10^2	3.291				3.291	7.457×10^0
80.0 MeV	1.527×10^2	2.469				2.469	2.194×10^1
100. MeV	1.764×10^2	2.321				2.322	3.032×10^1
140. MeV	2.218×10^2	2.166				2.166	4.823×10^1
200. MeV	2.868×10^2	2.074				2.074	7.664×10^1
300. MeV	3.917×10^2	2.039			0.000	2.039	1.254×10^2
318. MeV	4.105×10^2	2.038			0.000	2.039	*Minimum ionization*
400. MeV	4.945×10^2	2.045			0.000	2.045	1.744×10^2
800. MeV	8.995×10^2	2.121	0.000		0.000	2.122	3.665×10^2
1.00 GeV	1.101×10^3	2.156	0.000		0.000	2.157	4.600×10^2
1.40 GeV	1.502×10^3	2.213	0.000		0.001	2.214	6.429×10^2
2.00 GeV	2.103×10^3	2.275	0.001	0.000	0.001	2.277	9.099×10^2
3.00 GeV	3.104×10^3	2.346	0.001	0.001	0.001	2.349	1.342×10^3
4.00 GeV	4.104×10^3	2.395	0.001	0.001	0.002	2.400	1.763×10^3
8.00 GeV	8.105×10^3	2.508	0.003	0.003	0.004	2.518	3.385×10^3
10.0 GeV	1.011×10^4	2.542	0.004	0.004	0.005	2.556	4.173×10^3
14.0 GeV	1.411×10^4	2.592	0.007	0.007	0.007	2.612	5.720×10^3
20.0 GeV	2.011×10^4	2.642	0.010	0.012	0.009	2.674	7.989×10^3
30.0 GeV	3.011×10^4	2.696	0.017	0.021	0.014	2.748	1.168×10^4
40.0 GeV	4.011×10^4	2.733	0.024	0.030	0.018	2.805	1.528×10^4
80.0 GeV	8.011×10^4	2.818	0.055	0.073	0.034	2.981	2.909×10^4
100. GeV	1.001×10^5	2.844	0.071	0.097	0.043	3.055	3.571×10^4
140. GeV	1.401×10^5	2.884	0.105	0.146	0.059	3.194	4.851×10^4
200. GeV	2.001×10^5	2.925	0.158	0.223	0.084	3.390	6.674×10^4
300. GeV	3.001×10^5	2.972	0.249	0.354	0.126	3.702	9.496×10^4
400. GeV	4.001×10^5	3.005	0.344	0.492	0.168	4.009	1.209×10^5
800. GeV	8.001×10^5	3.085	0.739	1.063	0.339	5.227	2.080×10^5
1.00 TeV	1.000×10^6	3.111	0.944	1.359	0.427	5.841	2.442×10^5
1.14 TeV	1.136×10^6	3.126	1.082	1.557	0.487	6.253	*Muon critical energy*
1.40 TeV	1.400×10^6	3.151	1.356	1.947	0.605	7.059	3.064×10^5
2.00 TeV	2.000×10^6	3.194	1.989	2.849	0.876	8.908	3.819×10^5
3.00 TeV	3.000×10^6	3.243	3.051	4.351	1.342	11.988	4.784×10^5
4.00 TeV	4.000×10^6	3.278	4.132	5.874	1.817	15.102	5.526×10^5
8.00 TeV	8.000×10^6	3.366	8.512	12.010	3.793	27.681	7.453×10^5
10.0 TeV	1.000×10^7	3.394	10.728	15.101	4.811	34.035	8.104×10^5
14.0 TeV	1.400×10^7	3.438	15.150	21.259	6.910	46.758	9.102×10^5
20.0 TeV	2.000×10^7	3.485	21.843	30.549	10.135	66.012	1.018×10^6
30.0 TeV	3.000×10^7	3.539	32.987	46.004	15.735	98.266	1.141×10^6
40.0 TeV	4.000×10^7	3.579	44.194	61.510	21.483	130.766	1.229×10^6
80.0 TeV	8.000×10^7	3.676	89.141	123.586	45.616	262.020	1.441×10^6
100. TeV	1.000×10^8	3.707	111.678	154.662	58.131	328.179	1.509×10^6