

Table 310: Muons in Seaborgium

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
106 (Sg)	[266.]	??	1074.0	0.27165	3.0000	0.6247	3.0000	6.5174	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm ² /g]	Photonucl	Total	CSDA range [g/cm ²]		
10.0 MeV	4.704×10^1	3.593				3.593	1.651×10^0		
14.0 MeV	5.616×10^1	2.895				2.895	2.902×10^0		
20.0 MeV	6.802×10^1	2.325				2.325	5.236×10^0		
30.0 MeV	8.509×10^1	1.852				1.852	1.011×10^1		
40.0 MeV	1.003×10^2	1.606				1.606	1.595×10^1		
80.0 MeV	1.527×10^2	1.246				1.247	4.503×10^1		
100. MeV	1.764×10^2	1.184				1.184	6.153×10^1		
140. MeV	2.218×10^2	1.127				1.127	9.630×10^1		
200. MeV	2.868×10^2	1.106				1.106	1.502×10^2		
210. MeV	2.974×10^2	1.106	0.000			1.106	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.120	0.000		0.000	1.120	2.402×10^2		
400. MeV	4.945×10^2	1.148	0.000		0.000	1.148	3.284×10^2		
800. MeV	8.995×10^2	1.246	0.001		0.000	1.248	6.616×10^2		
1.00 GeV	1.101×10^3	1.283	0.002		0.000	1.285	8.194×10^2		
1.40 GeV	1.502×10^3	1.339	0.003		0.000	1.343	1.124×10^3		
2.00 GeV	2.103×10^3	1.398	0.005	0.000	0.001	1.405	1.560×10^3		
3.00 GeV	3.104×10^3	1.463	0.009	0.003	0.001	1.477	2.253×10^3		
4.00 GeV	4.104×10^3	1.507	0.013	0.007	0.001	1.529	2.918×10^3		
8.00 GeV	8.105×10^3	1.605	0.032	0.025	0.003	1.666	5.415×10^3		
10.0 GeV	1.011×10^4	1.633	0.043	0.036	0.004	1.717	6.597×10^3		
14.0 GeV	1.411×10^4	1.674	0.065	0.060	0.005	1.805	8.868×10^3		
20.0 GeV	2.011×10^4	1.714	0.102	0.099	0.007	1.923	1.209×10^4		
30.0 GeV	3.011×10^4	1.755	0.167	0.177	0.011	2.112	1.704×10^4		
40.0 GeV	4.011×10^4	1.783	0.236	0.263	0.014	2.297	2.158×10^4		
80.0 GeV	8.011×10^4	1.844	0.534	0.644	0.027	3.051	3.665×10^4		
100. GeV	1.001×10^5	1.863	0.692	0.850	0.034	3.440	4.282×10^4		
116. GeV	1.161×10^5	1.875	0.820	1.017	0.039	3.753	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.891	1.015	1.273	0.047	4.228	5.330×10^4		
200. GeV	2.001×10^5	1.920	1.521	1.946	0.067	5.456	6.577×10^4		
300. GeV	3.001×10^5	1.953	2.384	3.068	0.100	7.507	8.134×10^4		
400. GeV	4.001×10^5	1.977	3.275	4.231	0.133	9.618	9.309×10^4		
800. GeV	8.001×10^5	2.034	6.948	9.001	0.270	18.255	1.228×10^5		
1.00 TeV	1.000×10^6	2.052	8.833	11.441	0.339	22.667	1.326×10^5		
1.40 TeV	1.400×10^6	2.080	12.606	16.306	0.480	31.475	1.475×10^5		
2.00 TeV	2.000×10^6	2.111	18.373	23.730	0.694	44.910	1.634×10^5		
3.00 TeV	3.000×10^6	2.146	27.992	36.064	1.060	67.265	1.815×10^5		
4.00 TeV	4.000×10^6	2.171	37.732	48.529	1.432	89.866	1.943×10^5		
8.00 TeV	8.000×10^6	2.233	76.965	98.626	2.973	180.798	2.251×10^5		
10.0 TeV	1.000×10^7	2.253	96.721	123.804	3.763	226.543	2.349×10^5		
14.0 TeV	1.400×10^7	2.284	136.124	174.045	5.384	317.840	2.498×10^5		
20.0 TeV	2.000×10^7	2.317	195.546	249.726	7.866	455.458	2.654×10^5		
30.0 TeV	3.000×10^7	2.356	294.566	375.625	12.152	684.701	2.832×10^5		
40.0 TeV	4.000×10^7	2.384	393.933	501.812	16.537	914.669	2.958×10^5		
80.0 TeV	8.000×10^7	2.453	791.367	1006.902	34.829	1835.552	3.261×10^5		
100. TeV	1.000×10^8	2.475	990.200	1259.670	44.270	2296.618	3.358×10^5		