

Table 172: Muons in Glucose Dextrose C₆H12-O6.H2-O

| $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|-----------------------|-----------------------------|------------|---------|---------------------------------------|-----------|---------|------------------------------------|------------|
| 0.53499 | 1.540 | 77.2 | 0.10783 | 3.3946 | 0.1411 | 2.6700 | 3.1649 | 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 | 7.648 | | | | 7.648 | 7.228×10^{-1} | |
| 14.0 MeV | 5.616×10^1 | 5.966 | | | | 5.966 | 1.321×10^0 | |
| 20.0 MeV | 6.802×10^1 | 4.660 | | | | 4.660 | 2.472×10^0 | |
| 30.0 MeV | 8.509×10^1 | 3.616 | | | | 3.616 | 4.942×10^0 | |
| 40.0 MeV | 1.003×10^2 | 3.088 | | | | 3.088 | 7.955×10^0 | |
| 80.0 MeV | 1.527×10^2 | 2.316 | | | | 2.316 | 2.338×10^1 | |
| 100. MeV | 1.764×10^2 | 2.169 | | | | 2.169 | 3.233×10^1 | |
| 140. MeV | 2.218×10^2 | 2.018 | | | | 2.019 | 5.154×10^1 | |
| 200. MeV | 2.868×10^2 | 1.932 | | | | 1.932 | 8.204×10^1 | |
| 300. MeV | 3.917×10^2 | 1.898 | | | 0.000 | 1.898 | 1.344×10^2 | |
| 318. MeV | 4.105×10^2 | 1.897 | | | 0.000 | 1.898 | <i>Minimum ionization</i> | |
| 400. MeV | 4.945×10^2 | 1.903 | | | 0.000 | 1.904 | 1.871×10^2 | |
| 800. MeV | 8.995×10^2 | 1.974 | 0.000 | | 0.000 | 1.975 | 3.935×10^2 | |
| 1.00 GeV | 1.101×10^3 | 2.007 | 0.000 | | 0.000 | 2.008 | 4.939×10^2 | |
| 1.40 GeV | 1.502×10^3 | 2.060 | 0.000 | | 0.001 | 2.061 | 6.904×10^2 | |
| 2.00 GeV | 2.103×10^3 | 2.119 | 0.001 | 0.000 | 0.001 | 2.120 | 9.772×10^2 | |
| 3.00 GeV | 3.104×10^3 | 2.185 | 0.001 | 0.001 | 0.001 | 2.188 | 1.441×10^3 | |
| 4.00 GeV | 4.104×10^3 | 2.232 | 0.001 | 0.001 | 0.002 | 2.236 | 1.893×10^3 | |
| 8.00 GeV | 8.105×10^3 | 2.339 | 0.003 | 0.003 | 0.004 | 2.349 | 3.632×10^3 | |
| 10.0 GeV | 1.011×10^4 | 2.371 | 0.005 | 0.004 | 0.005 | 2.385 | 4.477×10^3 | |
| 14.0 GeV | 1.411×10^4 | 2.418 | 0.007 | 0.007 | 0.007 | 2.439 | 6.135×10^3 | |
| 20.0 GeV | 2.011×10^4 | 2.466 | 0.011 | 0.012 | 0.009 | 2.498 | 8.564×10^3 | |
| 30.0 GeV | 3.011×10^4 | 2.517 | 0.018 | 0.021 | 0.013 | 2.570 | 1.251×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.552 | 0.025 | 0.031 | 0.018 | 2.627 | 1.635×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.633 | 0.057 | 0.076 | 0.034 | 2.801 | 3.108×10^4 | |
| 100. GeV | 1.001×10^5 | 2.658 | 0.074 | 0.101 | 0.042 | 2.875 | 3.812×10^4 | |
| 140. GeV | 1.401×10^5 | 2.696 | 0.109 | 0.151 | 0.059 | 3.015 | 5.171×10^4 | |
| 200. GeV | 2.001×10^5 | 2.735 | 0.164 | 0.231 | 0.084 | 3.214 | 7.098×10^4 | |
| 300. GeV | 3.001×10^5 | 2.779 | 0.258 | 0.368 | 0.125 | 3.531 | 1.006×10^5 | |
| 400. GeV | 4.001×10^5 | 2.811 | 0.356 | 0.510 | 0.167 | 3.844 | 1.278×10^5 | |
| 800. GeV | 8.001×10^5 | 2.887 | 0.765 | 1.102 | 0.337 | 5.092 | 2.179×10^5 | |
| 1.00 TeV | 1.000×10^6 | 2.912 | 0.977 | 1.408 | 0.424 | 5.721 | 2.549×10^5 | |
| 1.04 TeV | 1.036×10^6 | 2.916 | 1.015 | 1.462 | 0.440 | 5.833 | <i>Muon critical energy</i> | |
| 1.40 TeV | 1.400×10^6 | 2.950 | 1.402 | 2.016 | 0.601 | 6.970 | 3.182×10^5 | |
| 2.00 TeV | 2.000×10^6 | 2.991 | 2.057 | 2.949 | 0.870 | 8.867 | 3.943×10^5 | |
| 3.00 TeV | 3.000×10^6 | 3.038 | 3.153 | 4.503 | 1.333 | 12.027 | 4.908×10^5 | |
| 4.00 TeV | 4.000×10^6 | 3.072 | 4.269 | 6.078 | 1.805 | 15.223 | 5.646×10^5 | |
| 8.00 TeV | 8.000×10^6 | 3.155 | 8.786 | 12.422 | 3.767 | 28.130 | 7.549×10^5 | |
| 10.0 TeV | 1.000×10^7 | 3.182 | 11.071 | 15.618 | 4.778 | 34.649 | 8.189×10^5 | |
| 14.0 TeV | 1.400×10^7 | 3.223 | 15.631 | 21.984 | 6.860 | 47.699 | 9.169×10^5 | |
| 20.0 TeV | 2.000×10^7 | 3.268 | 22.528 | 31.588 | 10.060 | 67.445 | 1.022×10^6 | |
| 30.0 TeV | 3.000×10^7 | 3.320 | 34.014 | 47.567 | 15.615 | 100.516 | 1.143×10^6 | |
| 40.0 TeV | 4.000×10^7 | 3.358 | 45.560 | 63.597 | 21.316 | 133.831 | 1.229×10^6 | |
| 80.0 TeV | 8.000×10^7 | 3.450 | 91.862 | 127.774 | 45.242 | 268.328 | 1.436×10^6 | |
| 100. TeV | 1.000×10^8 | 3.480 | 115.075 | 159.900 | 57.645 | 336.100 | 1.502×10^6 | |