

Table 240: Muons in n-propyl alcohol (C₃H₇OH)

| $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|-----------------------|-----------------------------|------------|---------|---------------------------------------|-----------|---------|------------------------------------|------------|
| 0.56577 | 0.803 | 61.1 | 0.09644 | 3.5415 | 0.2046 | 2.6681 | 3.2915 | 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 | 8.333 | | | | 8.333 | 6.620×10^{-1} | |
| 14.0 MeV | 5.616×10^1 | 6.494 | | | | 6.494 | 1.211×10^0 | |
| 20.0 MeV | 6.802×10^1 | 5.067 | | | | 5.067 | 2.270×10^0 | |
| 30.0 MeV | 8.509×10^1 | 3.927 | | | | 3.927 | 4.543×10^0 | |
| 40.0 MeV | 1.003×10^2 | 3.351 | | | | 3.351 | 7.317×10^0 | |
| 80.0 MeV | 1.527×10^2 | 2.512 | | | | 2.512 | 2.154×10^1 | |
| 100. MeV | 1.764×10^2 | 2.359 | | | | 2.359 | 2.978×10^1 | |
| 140. MeV | 2.218×10^2 | 2.196 | | | | 2.196 | 4.744×10^1 | |
| 200. MeV | 2.868×10^2 | 2.101 | | | | 2.101 | 7.548×10^1 | |
| 300. MeV | 3.917×10^2 | 2.063 | | | 0.000 | 2.063 | 1.237×10^2 | |
| 324. MeV | 4.161×10^2 | 2.062 | | | 0.000 | 2.063 | <i>Minimum ionization</i> | |
| 400. MeV | 4.945×10^2 | 2.068 | | | 0.000 | 2.068 | 1.721×10^2 | |
| 800. MeV | 8.995×10^2 | 2.142 | 0.000 | | 0.000 | 2.143 | 3.622×10^2 | |
| 1.00 GeV | 1.101×10^3 | 2.176 | 0.000 | | 0.000 | 2.177 | 4.548×10^2 | |
| 1.40 GeV | 1.502×10^3 | 2.232 | 0.000 | | 0.001 | 2.233 | 6.360×10^2 | |
| 2.00 GeV | 2.103×10^3 | 2.294 | 0.000 | 0.000 | 0.001 | 2.296 | 9.008×10^2 | |
| 3.00 GeV | 3.104×10^3 | 2.364 | 0.001 | 0.001 | 0.001 | 2.367 | 1.329×10^3 | |
| 4.00 GeV | 4.104×10^3 | 2.413 | 0.001 | 0.001 | 0.002 | 2.417 | 1.747×10^3 | |
| 8.00 GeV | 8.105×10^3 | 2.525 | 0.003 | 0.003 | 0.004 | 2.535 | 3.358×10^3 | |
| 10.0 GeV | 1.011×10^4 | 2.560 | 0.004 | 0.004 | 0.005 | 2.573 | 4.141×10^3 | |
| 14.0 GeV | 1.411×10^4 | 2.609 | 0.006 | 0.007 | 0.007 | 2.629 | 5.678×10^3 | |
| 20.0 GeV | 2.011×10^4 | 2.659 | 0.010 | 0.011 | 0.009 | 2.689 | 7.933×10^3 | |
| 30.0 GeV | 3.011×10^4 | 2.714 | 0.016 | 0.019 | 0.014 | 2.763 | 1.160×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.751 | 0.022 | 0.028 | 0.018 | 2.820 | 1.518×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.836 | 0.051 | 0.069 | 0.035 | 2.991 | 2.893×10^4 | |
| 100. GeV | 1.001×10^5 | 2.863 | 0.066 | 0.091 | 0.043 | 3.063 | 3.554×10^4 | |
| 140. GeV | 1.401×10^5 | 2.902 | 0.098 | 0.136 | 0.060 | 3.197 | 4.832×10^4 | |
| 200. GeV | 2.001×10^5 | 2.944 | 0.148 | 0.209 | 0.085 | 3.386 | 6.655×10^4 | |
| 300. GeV | 3.001×10^5 | 2.991 | 0.234 | 0.332 | 0.127 | 3.684 | 9.485×10^4 | |
| 400. GeV | 4.001×10^5 | 3.024 | 0.323 | 0.461 | 0.169 | 3.977 | 1.210×10^5 | |
| 800. GeV | 8.001×10^5 | 3.105 | 0.695 | 0.999 | 0.341 | 5.140 | 2.092×10^5 | |
| 1.00 TeV | 1.000×10^6 | 3.131 | 0.887 | 1.277 | 0.428 | 5.724 | 2.460×10^5 | |
| 1.20 TeV | 1.202×10^6 | 3.153 | 1.081 | 1.554 | 0.518 | 6.307 | <i>Muon critical energy</i> | |
| 1.40 TeV | 1.400×10^6 | 3.172 | 1.275 | 1.830 | 0.608 | 6.884 | 3.097×10^5 | |
| 2.00 TeV | 2.000×10^6 | 3.215 | 1.871 | 2.679 | 0.880 | 8.645 | 3.873×10^5 | |
| 3.00 TeV | 3.000×10^6 | 3.264 | 2.871 | 4.093 | 1.348 | 11.577 | 4.869×10^5 | |
| 4.00 TeV | 4.000×10^6 | 3.300 | 3.889 | 5.527 | 1.825 | 14.542 | 5.639×10^5 | |
| 8.00 TeV | 8.000×10^6 | 3.388 | 8.016 | 11.306 | 3.811 | 26.521 | 7.646×10^5 | |
| 10.0 TeV | 1.000×10^7 | 3.416 | 10.105 | 14.218 | 4.834 | 32.573 | 8.325×10^5 | |
| 14.0 TeV | 1.400×10^7 | 3.461 | 14.273 | 20.017 | 6.943 | 44.695 | 9.370×10^5 | |
| 20.0 TeV | 2.000×10^7 | 3.508 | 20.583 | 28.767 | 10.185 | 63.044 | 1.049×10^6 | |
| 30.0 TeV | 3.000×10^7 | 3.563 | 31.090 | 43.324 | 15.815 | 93.792 | 1.179×10^6 | |
| 40.0 TeV | 4.000×10^7 | 3.602 | 41.658 | 57.928 | 21.595 | 124.784 | 1.271×10^6 | |
| 80.0 TeV | 8.000×10^7 | 3.700 | 84.035 | 116.398 | 45.867 | 250.001 | 1.493×10^6 | |
| 100. TeV | 1.000×10^8 | 3.732 | 105.282 | 145.669 | 58.455 | 313.138 | 1.564×10^6 | |