

Muons in chlorobenzene C₆H₅Cl

| | $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|-----------------------|-----------------------------|----------|--------------------------|-----------|---------|------------------------------------|-----------|-----------------------------|
| | 0.51529 | 1.106 | 89.1 | 0.09856 | 3.3797 | 0.1714 | 2.9272 | 3.8201 | 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 | 7.229 | | | | 7.229 | | | 7.658×10^{-1} |
| 14.0 MeV | 5.616×10^1 | 5.644 | | | | 5.644 | | | 1.399×10^0 |
| 20.0 MeV | 6.802×10^1 | 4.411 | | | | 4.411 | | | 2.615×10^0 |
| 30.0 MeV | 8.509×10^1 | 3.425 | | | | 3.425 | | | 5.224×10^0 |
| 40.0 MeV | 1.003×10^2 | 2.926 | | | | 2.926 | | | 8.403×10^0 |
| 80.0 MeV | 1.527×10^2 | 2.200 | | | | 2.200 | | | 2.467×10^1 |
| 100. MeV | 1.764×10^2 | 2.065 | | | | 2.065 | | | 3.408×10^1 |
| 140. MeV | 2.218×10^2 | 1.926 | | | | 1.926 | | | 5.423×10^1 |
| 200. MeV | 2.868×10^2 | 1.848 | | | | 1.848 | | | 8.615×10^1 |
| 300. MeV | 3.917×10^2 | 1.821 | | | 0.000 | 1.821 | | | 1.408×10^2 |
| 303. MeV | 3.950×10^2 | 1.821 | | | 0.000 | 1.821 | | | <i>Minimum ionization</i> |
| 400. MeV | 4.945×10^2 | 1.830 | | | 0.000 | 1.830 | | | 1.956×10^2 |
| 800. MeV | 8.995×10^2 | 1.906 | 0.000 | | 0.000 | 1.906 | | | 4.098×10^2 |
| 1.00 GeV | 1.101×10^3 | 1.940 | 0.000 | | 0.000 | 1.940 | | | 5.138×10^2 |
| 1.40 GeV | 1.502×10^3 | 1.994 | 0.000 | 0.000 | 0.001 | 1.995 | | | 7.169×10^2 |
| 2.00 GeV | 2.103×10^3 | 2.054 | 0.001 | 0.000 | 0.001 | 2.056 | | | 1.013×10^3 |
| 3.00 GeV | 3.104×10^3 | 2.122 | 0.001 | 0.001 | 0.001 | 2.126 | | | 1.491×10^3 |
| 4.00 GeV | 4.104×10^3 | 2.169 | 0.002 | 0.001 | 0.002 | 2.174 | | | 1.956×10^3 |
| 8.00 GeV | 8.105×10^3 | 2.276 | 0.004 | 0.004 | 0.004 | 2.289 | | | 3.743×10^3 |
| 10.0 GeV | 1.011×10^4 | 2.309 | 0.006 | 0.006 | 0.005 | 2.325 | | | 4.610×10^3 |
| 14.0 GeV | 1.411×10^4 | 2.356 | 0.009 | 0.009 | 0.006 | 2.380 | | | 6.309×10^3 |
| 20.0 GeV | 2.011×10^4 | 2.403 | 0.014 | 0.016 | 0.009 | 2.441 | | | 8.796×10^3 |
| 30.0 GeV | 3.011×10^4 | 2.453 | 0.022 | 0.027 | 0.013 | 2.516 | | | 1.283×10^4 |
| 40.0 GeV | 4.011×10^4 | 2.487 | 0.031 | 0.040 | 0.017 | 2.576 | | | 1.675×10^4 |
| 80.0 GeV | 8.011×10^4 | 2.565 | 0.071 | 0.096 | 0.034 | 2.767 | | | 3.171×10^4 |
| 100. GeV | 1.001×10^5 | 2.590 | 0.093 | 0.127 | 0.042 | 2.851 | | | 3.883×10^4 |
| 140. GeV | 1.401×10^5 | 2.626 | 0.136 | 0.190 | 0.058 | 3.011 | | | 5.248×10^4 |
| 200. GeV | 2.001×10^5 | 2.663 | 0.205 | 0.291 | 0.082 | 3.242 | | | 7.168×10^4 |
| 300. GeV | 3.001×10^5 | 2.706 | 0.323 | 0.462 | 0.124 | 3.615 | | | 1.009×10^5 |
| 400. GeV | 4.001×10^5 | 2.737 | 0.445 | 0.639 | 0.165 | 3.986 | | | 1.272×10^5 |
| 800. GeV | 8.001×10^5 | 2.810 | 0.953 | 1.374 | 0.333 | 5.471 | | | 2.125×10^5 |
| 843. GeV | 8.432×10^5 | 2.816 | 1.010 | 1.455 | 0.351 | 5.632 | | | <i>Muon critical energy</i> |
| 1.00 TeV | 1.000×10^6 | 2.834 | 1.216 | 1.753 | 0.418 | 6.221 | | | 2.468×10^5 |
| 1.40 TeV | 1.400×10^6 | 2.871 | 1.744 | 2.508 | 0.593 | 7.716 | | | 3.044×10^5 |
| 2.00 TeV | 2.000×10^6 | 2.910 | 2.554 | 3.665 | 0.858 | 9.987 | | | 3.726×10^5 |
| 3.00 TeV | 3.000×10^6 | 2.955 | 3.910 | 5.588 | 1.315 | 13.769 | | | 4.575×10^5 |
| 4.00 TeV | 4.000×10^6 | 2.988 | 5.289 | 7.538 | 1.779 | 17.594 | | | 5.216×10^5 |
| 8.00 TeV | 8.000×10^6 | 3.068 | 10.867 | 15.385 | 3.712 | 33.033 | | | 6.849×10^5 |
| 10.0 TeV | 1.000×10^7 | 3.094 | 13.686 | 19.336 | 4.708 | 40.825 | | | 7.393×10^5 |
| 14.0 TeV | 1.400×10^7 | 3.134 | 19.313 | 27.210 | 6.758 | 56.416 | | | 8.223×10^5 |
| 20.0 TeV | 2.000×10^7 | 3.177 | 27.821 | 39.083 | 9.907 | 79.988 | | | 9.112×10^5 |
| 30.0 TeV | 3.000×10^7 | 3.227 | 41.976 | 58.841 | 15.372 | 119.417 | | | 1.013×10^6 |
| 40.0 TeV | 4.000×10^7 | 3.263 | 56.201 | 78.661 | 20.979 | 159.103 | | | 1.085×10^6 |
| 80.0 TeV | 8.000×10^7 | 3.352 | 113.219 | 158.002 | 44.496 | 319.069 | | | 1.259×10^6 |
| 100. TeV | 1.000×10^8 | 3.381 | 141.796 | 197.716 | 56.683 | 399.576 | | | 1.315×10^6 |