

**Table 268: Muons in Triethyl phosphate  $C_6H_{15}PO_4$**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.53800	1.070	81.2	0.06922	3.6302	0.2054	2.9428	3.6242	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]	
10.0 MeV	$4.704 \times 10^1$	7.640				7.640	$7.239 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.962				5.962	$1.323 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.658				4.658	$2.474 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.615				3.615	$4.946 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.088				3.088	$7.958 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.319				2.320	$2.338 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.180				2.180	$3.229 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.032				2.033	$5.139 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.948				1.949	$8.165 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.918			0.000	1.918	$1.335 \times 10^2$	
314. MeV	$4.065 \times 10^2$	1.917			0.000	1.918	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.925			0.000	1.925	$1.856 \times 10^2$	
800. MeV	$8.995 \times 10^2$	2.001	0.000		0.000	2.002	$3.894 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.035	0.000		0.000	2.036	$4.885 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.090	0.000	0.000	0.001	2.092	$6.822 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.151	0.001	0.000	0.001	2.153	$9.647 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.220	0.001	0.001	0.001	2.224	$1.421 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.268	0.002	0.001	0.002	2.273	$1.866 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.378	0.004	0.004	0.004	2.390	$3.576 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.412	0.005	0.005	0.005	2.427	$4.407 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.460	0.008	0.008	0.007	2.482	$6.035 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.508	0.012	0.014	0.009	2.543	$8.422 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.561	0.020	0.024	0.013	2.618	$1.229 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.596	0.028	0.035	0.018	2.677	$1.607 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.677	0.063	0.085	0.034	2.860	$3.050 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.703	0.082	0.113	0.042	2.940	$3.740 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.740	0.121	0.169	0.059	3.089	$5.066 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.780	0.182	0.258	0.083	3.304	$6.944 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.825	0.288	0.410	0.125	3.647	$9.823 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.856	0.397	0.568	0.166	3.988	$1.244 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.933	0.851	1.226	0.336	5.346	$2.108 \times 10^5$	
964. GeV	$9.645 \times 10^5$	2.954	1.044	1.504	0.406	5.909	<i>Muon critical energy</i>	
1.00 TeV	$1.000 \times 10^6$	2.958	1.086	1.565	0.422	6.031	$2.460 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.996	1.558	2.240	0.598	7.394	$3.058 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	3.037	2.284	3.275	0.866	9.463	$3.773 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.084	3.500	4.998	1.327	12.910	$4.675 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.118	4.737	6.744	1.796	16.396	$5.361 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.202	9.744	13.775	3.748	30.469	$7.123 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.229	12.275	17.316	4.754	37.574	$7.713 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.271	17.328	24.371	6.825	51.796	$8.616 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.316	24.970	35.012	10.008	73.306	$9.585 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	3.368	37.690	52.718	15.532	109.308	$1.069 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.406	50.476	70.479	21.201	145.563	$1.149 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.499	101.746	141.586	44.990	291.820	$1.339 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.529	127.448	177.180	57.320	365.478	$1.400 \times 10^6$	