

## Muons in lithium amide (LiNH<sub>2</sub>)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.52257	1.178	55.5	0.08740	3.7534	0.0198	2.5152	2.7961	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
				[MeV cm <sup>2</sup> /g]					
10.0 MeV	$4.704 \times 10^1$	7.790				7.790			$7.075 \times 10^{-1}$
14.0 MeV	$5.616 \times 10^1$	6.068				6.068			$1.296 \times 10^0$
20.0 MeV	$6.802 \times 10^1$	4.733				4.733			$2.428 \times 10^0$
30.0 MeV	$8.509 \times 10^1$	3.667				3.667			$4.863 \times 10^0$
40.0 MeV	$1.003 \times 10^2$	3.128				3.128			$7.835 \times 10^0$
80.0 MeV	$1.527 \times 10^2$	2.329				2.329			$2.312 \times 10^1$
100. MeV	$1.764 \times 10^2$	2.181				2.181			$3.202 \times 10^1$
140. MeV	$2.218 \times 10^2$	2.029				2.029			$5.113 \times 10^1$
200. MeV	$2.868 \times 10^2$	1.940				1.940			$8.149 \times 10^1$
300. MeV	$3.917 \times 10^2$	1.903			0.000	1.903			$1.337 \times 10^2$
328. MeV	$4.211 \times 10^2$	1.901			0.000	1.902			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	1.906			0.000	1.906			$1.863 \times 10^2$
800. MeV	$8.995 \times 10^2$	1.969	0.000		0.000	1.970			$3.928 \times 10^2$
1.00 GeV	$1.101 \times 10^3$	2.000	0.000		0.000	2.000			$4.935 \times 10^2$
1.40 GeV	$1.502 \times 10^3$	2.049	0.000		0.001	2.050			$6.910 \times 10^2$
2.00 GeV	$2.103 \times 10^3$	2.103	0.000	0.000	0.001	2.105			$9.796 \times 10^2$
3.00 GeV	$3.104 \times 10^3$	2.166	0.001	0.000	0.001	2.169			$1.447 \times 10^3$
4.00 GeV	$4.104 \times 10^3$	2.209	0.001	0.001	0.002	2.213			$1.903 \times 10^3$
8.00 GeV	$8.105 \times 10^3$	2.310	0.003	0.003	0.004	2.319			$3.664 \times 10^3$
10.0 GeV	$1.011 \times 10^4$	2.341	0.004	0.004	0.005	2.353			$4.519 \times 10^3$
14.0 GeV	$1.411 \times 10^4$	2.386	0.005	0.006	0.007	2.404			$6.200 \times 10^3$
20.0 GeV	$2.011 \times 10^4$	2.432	0.008	0.010	0.009	2.460			$8.666 \times 10^3$
30.0 GeV	$3.011 \times 10^4$	2.482	0.014	0.017	0.014	2.527			$1.267 \times 10^4$
40.0 GeV	$4.011 \times 10^4$	2.516	0.020	0.025	0.018	2.579			$1.659 \times 10^4$
80.0 GeV	$8.011 \times 10^4$	2.595	0.045	0.061	0.035	2.736			$3.162 \times 10^4$
100. GeV	$1.001 \times 10^5$	2.620	0.058	0.080	0.043	2.801			$3.884 \times 10^4$
140. GeV	$1.401 \times 10^5$	2.656	0.086	0.120	0.060	2.923			$5.282 \times 10^4$
200. GeV	$2.001 \times 10^5$	2.695	0.130	0.184	0.085	3.094			$7.276 \times 10^4$
300. GeV	$3.001 \times 10^5$	2.738	0.206	0.293	0.127	3.365			$1.037 \times 10^5$
400. GeV	$4.001 \times 10^5$	2.769	0.285	0.407	0.169	3.630			$1.323 \times 10^5$
800. GeV	$8.001 \times 10^5$	2.844	0.613	0.882	0.342	4.681			$2.291 \times 10^5$
1.00 TeV	$1.000 \times 10^6$	2.868	0.783	1.128	0.429	5.208			$2.696 \times 10^5$
1.22 TeV	$1.218 \times 10^6$	2.890	0.968	1.394	0.527	5.780			<i>Muon critical energy</i>
1.40 TeV	$1.400 \times 10^6$	2.905	1.125	1.618	0.609	6.257			$3.396 \times 10^5$
2.00 TeV	$2.000 \times 10^6$	2.945	1.651	2.370	0.882	7.848			$4.250 \times 10^5$
3.00 TeV	$3.000 \times 10^6$	2.991	2.535	3.621	1.352	10.498			$5.348 \times 10^5$
4.00 TeV	$4.000 \times 10^6$	3.024	3.434	4.892	1.830	13.179			$6.197 \times 10^5$
8.00 TeV	$8.000 \times 10^6$	3.105	7.079	10.011	3.821	24.016			$8.413 \times 10^5$
10.0 TeV	$1.000 \times 10^7$	3.131	8.924	12.591	4.847	29.493			$9.163 \times 10^5$
14.0 TeV	$1.400 \times 10^7$	3.172	12.606	17.729	6.962	40.470			$1.032 \times 10^6$
20.0 TeV	$2.000 \times 10^7$	3.216	18.180	25.482	10.213	57.091			$1.156 \times 10^6$
30.0 TeV	$3.000 \times 10^7$	3.266	27.461	38.378	15.860	84.966			$1.299 \times 10^6$
40.0 TeV	$4.000 \times 10^7$	3.303	36.795	51.318	21.659	113.075			$1.400 \times 10^6$
80.0 TeV	$8.000 \times 10^7$	3.393	74.244	103.123	46.013	226.773			$1.645 \times 10^6$
100. TeV	$1.000 \times 10^8$	3.423	93.025	129.058	58.644	284.151			$1.724 \times 10^6$