

Results: 2 different decay possibilities were found

Dataset #1:

Authors: F.G. Kondev, S. Lalkovski Citation: Nuclear Data Sheets 112, 707 (2011)

Parent Nucleus	Parent E(level)	Parent J π	Parent T _{1/2}	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus	Decay Scheme	ENSDF file
²¹¹ ₈₄ Po	0.0	9/2+	0.516 s 3	α : 100 %	7594.5 5	²⁰⁷ ₈₂ Pb		

Alphas:

Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
5848.2 5	8.1E-4 % 10	4.7E-5 6
6568.3 9	0.537 % 19	0.0353 12
6891.5 8	0.546 % 19	0.0376 13
7450.3 5	98.916 %	7.3695

Electrons:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
Auger L	7.97	0.0127 % 4	1.01E-6 3
Auger K	56.7	7.4E-4 % 8	4.2E-7 5
CE K	240.20 20	9E-4 % 3	2.1E-6 7
CE L	312.34 20	1.5E-4 % 5	4.7E-7 16
CE M	324.35 20	3.5E-5 % 12	1.1E-7 4
CE N	327.31 20	9E-6 % 3	2.9E-8 10
CE O	328.12 20	1.8E-6 % 6	5.8E-9 20
CE P	328.20 20	1.9E-7 % 6	6.2E-10 21
CE K	481.65 10	0.00847 %	4.08E-5
CE L	553.79 10	0.00235 %	1.301E-5
CE M	565.80 10	5.78E-4 %	3.27E-6
CE N	568.76 10	1.466E-4 %	8.34E-7
CE O	569.57 10	2.79E-5 %	1.588E-7
CE P	569.65 10	2.30E-6 %	1.307E-8
CE K	809.80 10	0.0106 % 5	8.6E-5 4
CE L	881.94 10	0.00175 % 8	1.55E-5 7
CE M	893.95 10	4.08E-4 % 18	3.65E-6 16
CE N	896.91 10	1.04E-4 % 5	9.3E-7 4
CE O	897.72 10	2.07E-5 % 9	1.86E-7 8
CE P	897.80 10	2.23E-6 % 10	2.00E-8 9
CE K	975.651 3	6.8E-5 % 7	6.6E-7 7
CE L	1047.795 3	1.72E-5 % 18	1.80E-7 19
CE M	1059.805 3	4.3E-6 % 4	4.5E-8 5
CE N	1062.762 3	1.09E-6 % 11	1.16E-8 12
CE O	1063.581 3	2.14E-7 % 22	2.27E-9 24

CE P 1063.655 3 2.07E-8 % 22 2.20E-10 23

Gamma and X-ray radiation:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
XR 1	10.6	0.0078 % 4	8.2E-7 4
XR kα2	72.805	0.00554 % 20	4.03E-6 14
XR kα1	74.969	0.0092 % 3	6.92E-6 24
XR kβ3	84.45	0.00112 % 4	9.4E-7 3
XR kβ1	84.938	0.00214 % 7	1.82E-6 6
XR kβ2	87.3	7.8E-4 % 3	6.82E-7 24
	328.2 2	0.0032 % 11	1.1E-5 4
	569.65 10	0.535 %	0.00305
	897.8 1	0.551 % 23	0.00495 21
	1063.656 3	7.2E-4 % 7	7.7E-6 8

Gamma Coincidence Data:

For each gamma, the list of gammas in coincidence is given. If experimentally known, an estimate of the average time interval (in seconds) between both gammas is given

E(γ) Coincidence
 328.2 569.65
 569.65 328.2, 1063.656
 1063.656 569.65

Dataset #2:

Authors: J.K. Tuli, P. Blokhin, J. Kaur, J.Y. Lee and N. Sharma Citation: Nuclear Data Sheets 114, 661 (2013)

Parent Nucleus	Parent E(level)	Parent Jπ	Parent T _{1/2}	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus
²¹¹ ₈₄ Po	14625	(25/2+)	25.3 s 4	IT: 0.016 4 %		²¹¹ ₈₄ Po

[Decay Scheme](#) [ENSDF file](#)

Electrons:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
Auger L	8.33	5.63E-4 % 15	4.69E-8 13
Auger K	59.7	3.2E-5 % 4	1.92E-8 22
CE K	269.9 5	2.62E-4 %	7.06E-7
CE K	284.5 5	4.44E-4 %	1.263E-6
CE L	346.1 5	4.44E-5 %	1.536E-7
CE M	358.9 5	1.041E-5 %	3.74E-8
CE L	360.7 5	1.053E-4 %	3.80E-7
CE N	362.0 5	2.66E-6 %	9.63E-9
CE O	362.9 5	5.46E-7 %	1.98E-9
CE P	363.0 5	6.68E-8 %	2.42E-10
CE M	373.5 5	2.59E-5 %	9.68E-8
CE N	376.6 5	6.72E-6 %	2.53E-8
CE O	377.5 5	1.396E-6 %	5.27E-9

CE P	377.6 5	1.76E-7 %	6.65E-10
CE K	594.0 5	5.19E-5 %	3.08E-7
CE L	670.2 5	8.91E-6 %	5.97E-8
CE M	683.0 5	2.10E-6 %	1.432E-8
CE N	686.1 5	5.39E-7 %	3.70E-9
CE O	687.0 5	1.128E-7 %	7.75E-10
CE P	687.1 5	1.458E-8 %	1.002E-10
CE K	971.8 5	1.606E-4 %	1.561E-6
CE L	1048.0 5	4.32E-5 %	4.52E-7
CE M	1060.8 5	1.070E-5 %	1.135E-7
CE N	1063.9 5	2.76E-6 %	2.94E-8
CE O	1064.8 5	5.61E-7 %	5.97E-9
CE P	1064.9 5	6.61E-8 %	7.04E-10

Gamma and X-ray radiation:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
XR 1	11.1	3.80E-4 % 15	4.22E-8 17
	34 5 S	2.5E-9 %	8E-13
XR kα2	76.863	2.54E-4 % 6	1.95E-7 4
XR kα1	79.29	4.23E-4 % 8	3.36E-7 7
XR kβ3	89.256	5.11E-5 % 10	4.56E-8 9
XR kβ1	89.807	9.82E-5 % 19	8.82E-8 17
XR kβ2	92.317	3.63E-5 % 7	3.35E-8 7
	363.0 5	0.016 %	5.7E-5
	377.6 5	6.6E-4 %	2.5E-6
	687.1 5	0.0012 %	8.1E-6
	1064.9 5	0.015 %	1.5E-4

Gamma Coincidence Data:

For each gamma, the list of gammas in coincidence is given. If experimentally known, an estimate of the average time interval (in seconds) between both gammas is given

E(γ) Coincidence

34 363.0, 377.6 (1.40E-8), 687.1 (1.40E-8), 1064.9 (1.40E-8)

363.0 34, 377.6 (1.40E-8), 687.1 (1.40E-8), 1064.9 (1.40E-8)

377.6 34 (1.40E-8), 363.0 (1.40E-8), 687.1

687.1 34 (1.40E-8), 363.0 (1.40E-8), 377.6

1064.9 34 (1.40E-8), 363.0 (1.40E-8)