

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	3.058	(6)	min
Q_{β^-}	:	4999.0	(17)	keV
β^-	:	100		%

2 β^- Transitions

	Energy keV	Probability $\times 100$		Nature	log ft
$\beta_{0,23}^-$	518.3 (17)	0.052 (5)		1st forbidden non-unique	6.67
$\beta_{0,21}^-$	615.7 (17)	0.017 (5)		1st forbidden non-unique	7.41
$\beta_{0,20}^-$	640.3 (17)	0.045 (4)		1st forbidden non-unique	7.04
$\beta_{0,19}^-$	675.1 (17)	0.005 (2)		Allowed	8.1
$\beta_{0,18}^-$	702.4 (17)	0.102 (11)		1st forbidden non-unique	6.82
$\beta_{0,17}^-$	737.1 (17)	0.002 (1)		1st forbidden non-unique	8.6
$\beta_{0,13}^-$	818.6 (17)	0.231 (9)		1st forbidden non-unique	6.7
$\beta_{0,12}^-$	873.7 (17)	0.174 (9)		1st forbidden non-unique	6.92
$\beta_{0,8}^-$	1003.6 (17)	0.007 (3)		1st forbidden non-unique	8.5
$\beta_{0,7}^-$	1037.8 (17)	3.17 (4)		1st forbidden non-unique	5.92
$\beta_{0,6}^-$	1052.4 (17)	0.048 (3)		1st forbidden non-unique	7.76
$\beta_{0,5}^-$	1079.0 (17)	0.63 (4)		1st forbidden non-unique	6.68
$\beta_{0,4}^-$	1290.5 (17)	24.1 (2)		1st forbidden non-unique	5.38
$\beta_{0,3}^-$	1523.9 (17)	22.1 (5)		1st forbidden non-unique	5.69
$\beta_{0,2}^-$	1801.3 (17)	49.2 (6)		1st forbidden non-unique	5.61

3 Electron Emissions

		Energy keV		Electrons per 100 disint.	Energy keV
e _{AL}	(Pb)	5.262 - 10.398		4.50 (13)	
e _{AK}	(Pb)			0.27 (3)	
	KLL	56.028 - 61.669	}		
	KLX	68.181 - 74.969	}		
	KXY	80.3 - 88.0	}		
ec _{3,2} K	(Pb)	189.36 (2)		2.86 (13)	
ec _{3,2} L	(Pb)	261.51 - 264.33		0.49 (2)	
ec _{3,2} M+	(Pb)	273.52 - 277.37		0.15 (1)	
ec _{4,2} K	(Pb)	422.73 (2)		1.88 (2)	
ec _{4,2} L	(Pb)	494.88 - 497.70		0.32	
ec _{4,2} M+	(Pb)	506.89 - 510.74		0.098	
ec _{2,1} K	(Pb)	495.18 (2)		1.25 (1)	
ec _{2,1} L	(Pb)	567.33 - 570.15		0.34	
ec _{2,1} M+	(Pb)	579.33 - 583.19		0.109	
ec _{1,0} α	(Pb)	1592.51 (1)		0.0369 (6)	
ec _{1,0} K	(Pb)	2526.51 (1)		0.170 (3)	
ec _{1,0} L	(Pb)	2598.65 - 2601.48		0.0291 (4)	

		Energy keV		Electrons per 100 disint.		Energy keV
$\beta_{0,23}^-$	max:	518.3	(17)	0.052	(5)	avg: 154.3 (6)
$\beta_{0,21}^-$	max:	615.7	(17)	0.017	(5)	avg: 187.7 (6)
$\beta_{0,20}^-$	max:	640.3	(17)	0.045	(4)	avg: 196.4 (6)
$\beta_{0,19}^-$	max:	675.1	(17)	0.005	(2)	avg: 208.6 (6)
$\beta_{0,18}^-$	max:	702.4	(17)	0.102	(11)	avg: 218.3 (6)
$\beta_{0,17}^-$	max:	737.1	(17)	0.002	(1)	avg: 230.8 (6)
$\beta_{0,13}^-$	max:	818.6	(17)	0.231	(9)	avg: 260.4 (6)
$\beta_{0,12}^-$	max:	873.7	(17)	0.174	(9)	avg: 280.8 (6)
$\beta_{0,8}^-$	max:	1003.6	(17)	0.007	(3)	avg: 329.7 (7)
$\beta_{0,7}^-$	max:	1037.8	(17)	3.17	(4)	avg: 342.8 (7)
$\beta_{0,6}^-$	max:	1052.4	(17)	0.048	(3)	avg: 348.4 (7)
$\beta_{0,5}^-$	max:	1079.0	(17)	0.63	(4)	avg: 358.6 (7)
$\beta_{0,4}^-$	max:	1290.5	(17)	24.1	(2)	avg: 441.5 (7)
$\beta_{0,3}^-$	max:	1523.9	(17)	22.1	(5)	avg: 535.4 (7)
$\beta_{0,2}^-$	max:	1801.3	(17)	49.2	(6)	avg: 649.5 (7)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(Pb)	9.184 — 15.216		2.75	(12)
XK α_2	(Pb)	72.8049		2.03	(5)
XK α_1	(Pb)	74.97		3.42	(7)
XK β_3	(Pb)	84.451	}		
XK β_1	(Pb)	84.937	}	1.17	(3)
XK β'_5	(Pb)	85.47	}		
XK β_2	(Pb)	87.238	}		
XK β_4	(Pb)	87.58	}	0.353	(11)
XK $\alpha_{2,3}$	(Pb)	87.911	}		

4.2 Gamma Transitions and Emissions

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{5,4}$ (Pb)	211.52 (2)	0.38 (2)	M1+3%E2	1.096 (17)	0.18 (1)
$\gamma_{4,3}$ (Pb)	233.37 (2)	0.51 (2)	[M1+33%E2]	0.66 (3)	0.31 (1)
$\gamma_{7,4}$ (Pb)	252.71 (2)	1.26 (3)	[M1+14%E2]	0.616 (15)	0.78 (2)
$\gamma_{3,2}$ (Pb)	277.37 (2)	10.1 (5)	[M1+0.04%E2]	0.529 (8)	6.6 (3)
$\gamma_{7,3}$ (Pb)	486.08 (2)	0.055 (4)	[M1]	0.1164 (17)	0.049 (4)
$\gamma_{4,2}$ (Pb)	510.74 (2)	24.8 (2)	[M1+0.25%E2]	0.1019 (16)	22.5 (2)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{2,1}(\text{Pb})$	583.187 (2)	86.7 (3)	E2	0.0205 (3)	85.0 (3)
$\gamma_{18,4}(\text{Pb})$	588.108 (18)	0.06 (1)	[M1]	0.0704 (10)	0.06 (1)
$\gamma_{12,3}(\text{Pb})$	650.27 (2)	0.043 (5)	[M1]	0.0541 (8)	0.041 (5)
$\gamma_{13,3}(\text{Pb})$	705.34 (2)	0.023 (4)	[M1]	0.0438 (7)	0.022 (4)
$\gamma_{5,2}(\text{Pb})$	722.26 (2)	0.25 (4)	M1+8.8%E2	0.0387 (7)	0.24 (4)
$\gamma_{6,2}(\text{Pb})$	748.87 (2)	0.048 (3)	[M1]	0.0375 (6)	0.046 (3)
$\gamma_{7,2}(\text{Pb})$	763.45 (2)	1.86 (2)	[M1+1.0%E2]	0.0354 (5)	1.80 (2)
$\gamma_{-1,1}(\text{Pb})$	808.32 (13)	0.030 (7)			0.030 (7)
$\gamma_{18,3}(\text{Pb})$	821.48 (2)	0.042 (4)	M1	0.0295 (5)	0.041 (4)
$\gamma_{-1,2}(\text{Pb})$	835.90 (11)	0.076 (11)			0.076 (11)
$\gamma_{3,1}(\text{Pb})$	860.53 (2)	12.7 (1)	[M1+0.02%E2]	0.0262 (4)	12.4 (1)
$\gamma_{20,3}(\text{Pb})$	883.59 (2)	0.032 (3)	[M1]	0.0244 (4)	0.031 (3)
$\gamma_{12,2}(\text{Pb})$	927.64 (2)	0.131 (7)	[M1]	0.0216 (3)	0.128 (7)
$\gamma_{13,2}(\text{Pb})$	982.70 (2)	0.208 (8)	[M1]	0.0186 (3)	0.204 (8)
$\gamma_{4,1}(\text{Pb})$	1093.90 (2)	0.44 (1)	E2	0.00560 (8)	0.44 (1)
$\gamma_{19,2}(\text{Pb})$	1126.24 (2)	0.005 (2)	E1	0.00203 (3)	0.005 (2)
$\gamma_{20,2}(\text{Pb})$	1160.96 (2)	0.011 (3)	[M1]	0.01214 (17)	0.011 (3)
$\gamma_{21,2}(\text{Pb})$	1185.57 (2)	0.017 (5)	[M1]	0.01151 (17)	0.017 (5)
$\gamma_{23,2}(\text{Pb})$	1283.04 (2)	0.052 (5)	[M1]	0.00943 (14)	0.052 (5)
$\gamma_{8,1}(\text{Pb})$	1380.89 (2)	0.007 (3)	[M1]	0.00785 (11)	0.007 (3)
$\gamma_{17,1}(\text{Pb})$	1647.32 (2)	0.002 (1)	[M1]	0.00518 (8)	0.002 (1)
$\gamma_{20,12}(\text{Pb})$	1744.12 (2)	0.002 (1)	[M1]	0.00457 (7)	0.002 (1)
$\gamma_{1,0}(\text{Pb})$	2614.511 (10)	100	E3	0.00246 (4)	99.755 (4)

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