

## 1 Half-life, Q-value and Decay mode

$T_{1/2}$	:	7.6	(2)	min
$Q_{\beta^-}$	:	2189	(15)	keV
$\beta^-$	:	100		%

## 2 $\beta^-$ Transitions

	Energy keV	Probability $\times 100$		Nature	$\log ft$
$\beta_{0,18}^-$	790 (15)	2.8	(1)	[1st forbidden non-unique]	6
$\beta_{0,17}^-$	895 (15)	2.0	(2)	[1st forbidden non-unique]	6.34
$\beta_{0,16}^-$	1013 (15)	0.2	(1)	[1st forbidden non-unique]	7.5
$\beta_{0,14}^-$	1111 (15)	0.7	(1)	[1st forbidden non-unique]	7.1
$\beta_{0,9}^-$	1354 (15)	1.5	(1)	[1st forbidden non-unique]	7.1
$\beta_{0,6}^-$	1512 (15)	0.5	(1)	[1st forbidden non-unique]	7.8
$\beta_{0,5}^-$	1581 (15)	0.7	(1)	(1st forbidden non-unique)	7.7
$\beta_{0,4}^-$	1671 (15)	0.3	(2)	(1st forbidden non-unique)	8.1
$\beta_{0,3}^-$	1787 (15)	0.5	(1)	(1st forbidden unique)	9
$\beta_{0,2}^-$	1895 (15)	30	(6)	(1st forbidden non-unique)	6.35
$\beta_{0,0}^-$	2189 (15)	61	(6)	(1st forbidden non-unique)	6.28

## 3 Electron Emissions

		Energy keV		Electrons per 100 disint.	Energy keV
eAL	(Po)	5.434 - 10.934		4.0 (4)	
eAK	(Po)			0.22 (5)	
	KLL	58.978 - 65.205	}		
	KLX	71.902 - 79.289	}		
	KXY	84.8 - 93.1	}		
ec <sub>1,0</sub> K	(Po)	178.13	(1)	0.22 (1)	
ec <sub>1,0</sub> L	(Po)	254.30 - 257.42		0.13 (1)	
ec <sub>1,0</sub> M+	(Po)	267.08 - 271.23		0.04	
ec <sub>2,0</sub> K	(Po)	200.46	(4)	6.0 (4)	
ec <sub>2,0</sub> L	(Po)	276.63 - 279.75		1.5 (1)	
ec <sub>2,0</sub> M+	(Po)	289.41 - 293.56		0.7 (1)	
$\beta_{0,18}^-$	max:	790	(15)	2.8 (1)	avg: 249 (6)
$\beta_{0,17}^-$	max:	895	(15)	2.0 (2)	avg: 287 (6)
$\beta_{0,16}^-$	max:	1013	(15)	0.2 (1)	avg: 332 (6)
$\beta_{0,14}^-$	max:	1111	(15)	0.7 (1)	avg: 370 (6)
$\beta_{0,9}^-$	max:	1354	(15)	1.5 (1)	avg: 465 (6)
$\beta_{0,6}^-$	max:	1512	(15)	0.5 (1)	avg: 528 (6)
$\beta_{0,5}^-$	max:	1581	(15)	0.7 (1)	avg: 556 (6)
$\beta_{0,4}^-$	max:	1671	(15)	0.3 (2)	avg: 593 (6)
$\beta_{0,3}^-$	max:	1787	(15)	0.5 (1)	avg: 619 (6)

		Energy keV		Electrons per 100 disint.	Energy keV
$\beta_{0,2}^-$	max:	1895	(15)	30 (6)	avg: 685 (6)
$\beta_{0,0}^-$	max:	2189	(15)	61 (6)	avg: 808 (6)

## 4 Photon Emissions

### 4.1 X-Ray Emissions

		Energy keV	Photons per 100 disint.	
XL	(Po)	9.658 — 16.213	2.7 (3)	
XK $\alpha_2$	(Po)	76.864	1.8 (3)	} K $\alpha$
XK $\alpha_1$	(Po)	79.293	3.0 (5)	}
XK $\beta_3$	(Po)	89.256	}	
XK $\beta_1$	(Po)	89.807	}	1.02 (16) K $\beta'_1$
XK $\beta'_5$	(Po)	90.363	}	
XK $\beta_2$	(Po)	92.263	}	
XK $\beta_4$	(Po)	92.618	}	0.32 (5) K $\beta'_2$
XKO $_{2,3}$	(Po)	92.983	}	

### 4.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ × 100	Multipolarity	$\alpha_T$	P $_{\gamma}$ × 100
$\gamma_{3,1}$ (Po)	130.58 (1)	0.0505 (12)	M1+26.5%E2	4.44 (13)	0.0093 (10)
$\gamma_{4,2}$ (Po)	224.04 (7)	0.044 (7)	E2	0.319 (5)	0.033 (5)
$\gamma_{1,0}$ (Po)	271.228 (10)	2.34 (10)	M1+94%E2	0.201 (7)	1.95 (7)
$\gamma_{2,0}$ (Po)	293.56 (4)	32 (2)	M1+50%E2	0.34 (5)	23.8 (9)
$\gamma_{6,2}$ (Po)	383.10 (8)	0.14 (7)			0.14 (7)
$\gamma_{3,0}$ (Po)	401.81 (1)	0.50 (8)	E2	0.0555 (8)	0.48 (7)
$\gamma_{6,1}$ (Po)	405.43 (7)	0.006 (1)			0.006 (1)
$\gamma_{4,0}$ (Po)	517.60 (6)	1.10 (8)	M1+50%E2	0.073 (10)	1.02 (8)
$\gamma_{9,2}$ (Po)	541.76 (22)	0.21 (7)			0.21 (7)
$\gamma_{9,1}$ (Po)	564.09 (22)	0.67 (7)			0.67 (7)
$\gamma_{5,0}$ (Po)	608.30 (7)	0.67 (7)	(M1+E2)		0.67 (7)
$\gamma_{6,0}$ (Po)	676.66 (7)	0.40 (7)			0.40 (7)
$\gamma_{17,4}$ (Po)	776.9 (1)	0.81 (14)			0.81 (14)
$\gamma_{14,2}$ (Po)	784 (2)	0.33 (7)			0.33 (7)
$\gamma_{14,1}$ (Po)	806.4 (20)	0.40 (7)			0.40 (7)
$\gamma_{9,0}$ (Po)	835.32 (22)	0.62 (7)			0.62 (7)
$\gamma_{16,1}$ (Po)	905 (2)	0.21 (7)			0.21 (7)
$\gamma_{17,1}$ (Po)	1023.3 (1)	0.62 (7)			0.62 (7)
$\gamma_{18,2}$ (Po)	1105.2 (4)	1.50 (7)			1.50 (7)
$\gamma_{18,1}$ (Po)	1127.6 (4)	0.48 (7)			0.48 (7)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	$P_\gamma$ $\times 100$
$\gamma_{17,0}(\text{Po})$	1294.5 (1)	0.62 (7)			0.62 (7)
$\gamma_{18,0}(\text{Po})$	1398.8 (4)	0.81 (7)			0.81 (7)

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