

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

$T_{1/2}$	:	7.216	(7)	h
$Q_\alpha$	:	5982.4	(13)	keV
$Q_{EC}$	:	785.4	(25)	keV
$EC$	:	58.22	(8)	%
$\alpha$	:	41.78	(8)	%

## 2 Electron Capture Transitions

	Energy keV	Probability $\times 100$	Nature	$\log ft$	$P_K$	$P_L$	$P_{M+}$
$\epsilon_{0,1}$	98.2 (26)	0.258 (13)	1st forbidden non-unique	5.77	0.015 (17)	0.684 (10)	0.301 (7)
$\epsilon_{0,0}$	785.4 (25)	57.96 (8)	1st forbidden non-unique	5.97	0.7731 (2)	0.1693 (1)	0.05758 (4)

## 3 $\alpha$ Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,5}$	4895.4 (13)	<0.00004
$\alpha_{0,3}$	4993.4 (13)	$\sim 0.0004$
$\alpha_{0,2}$	5140.3 (13)	0.0011 (2)
$\alpha_{0,1}$	5211.9 (13)	0.0039 (3)
$\alpha_{0,0}$	5869.0 (13)	41.78 (8)

## 4 Electron Emissions

		Energy keV	Electrons per 100 disint.
eAL	(Po)	5.434 - 10.934	27.6 (8)
eAK	(Po)		1.57 (18)
	KLL	58.978 - 65.205	}
	KLX	71.902 - 79.289	}
	KXY	84.8 - 93.1	}
eAL	(Bi)	5.35 - 10.66	0.000211 (20)
eAK	(Bi)		0.0000126 (24)
	KLL	57.491 - 63.419	}
	KLX	70.025 - 77.105	}
	KXY	82.53 - 90.52	}

## 5 Photon Emissions

### 5.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(Po)	9.658 — 16.213		18.6 (8)	
XK $\alpha_2$	(Po)	76.864		12.66 (9)	} K $\alpha$
XK $\alpha_1$	(Po)	79.293		21.08 (12)	}
XK $\beta_3$	(Po)	89.256	}		
XK $\beta_1$	(Po)	89.807	}	7.26 (12)	K $\beta'_1$
XK $\beta''_5$	(Po)	90.363	}		
XK $\beta_2$	(Po)	92.263	}		
XK $\beta_4$	(Po)	92.618	}	2.26 (5)	K $\beta'_2$
XK $O_{2,3}$	(Po)	92.983	}		
XL	(Bi)	9.42 — 15.709		0.000136 (14)	
XK $\alpha_2$	(Bi)	74.8157		0.000098 (15)	} K $\alpha$
XK $\alpha_1$	(Bi)	77.1088		0.000164 (25)	}
XK $\beta_3$	(Bi)	86.835	}		
XK $\beta_1$	(Bi)	87.344	}	0.000056 (9)	K $\beta'_1$
XK $\beta''_5$	(Bi)	87.862	}		
XK $\beta_2$	(Bi)	89.732	}		
XK $\beta_4$	(Bi)	90.074	}	0.000017 (3)	K $\beta'_2$
XK $O_{2,3}$	(Bi)	90.421	}		

### 5.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	P $_{\gamma}$ $\times 100$
$\gamma_{3,2}$ (Bi)	149.72 (10)	$\sim 0.0002$	M1+13.8%E2	3.0 (3)	$\sim 0.00005$
$\gamma_{3,1}$ (Bi)	222.69 (10)	$\sim 0.00008$	M1+13.8%E2	0.95 (5)	$\sim 0.00004$
$\gamma_{1,0}$ (Bi)	669.77 (7)	0.0040 (3)	[M1+5.9%E2]	0.0520 (9)	0.0038 (3)
$\gamma_{1,0}$ (Po)	687.2 (7)	0.258 (13)	(M1+3.85%E2)	0.0536 (9)	0.245 (12)
$\gamma_{2,0}$ (Bi)	742.74 (7)	0.0013 (2)	[M1+8.3%E2]	0.0391 (7)	0.00125 (19)
$\gamma_{3,0}$ (Bi)	892.46 (7)	$\sim 0.00014$	[M1+66.2%E2]	0.0145 (13)	$\sim 0.00014$

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