

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

$T_{1/2}$	:	26.98	(2)	d
$Q_{\beta^-}$	:	570.1	(20)	keV
$\beta^-$	:	100		%

## 2 $\beta^-$ Transitions

	Energy keV	Probability $\times 100$	Nature	$\log ft$
$\beta_{0,11}^-$	114.1 (20)	0.0011 (2)	1st forbidden	10.6
$\beta_{0,10}^-$	154.3 (20)	25.4 (16)	1st forbidden	6.7
$\beta_{0,9}^-$	171.5 (20)	15.4 (8)	1st forbidden	7
$\beta_{0,8}^-$	189.8 (20)	0.020 (3)	1st forbidden unique	9.4
$\beta_{0,7}^-$	229.6 (20)	25.9 (32)	1st forbidden	7.2
$\beta_{0,6}^-$	249.4 (20)	0.020 (5)	2nd forbidden	10.4
$\beta_{0,5}^-$	258.2 (20)	26.6 (32)	1st forbidden	7.3
$\beta_{0,4}^-$	268.1 (20)	0.010 (2)	Allowed	11.8
$\beta_{0,3}^-$	271.3 (20)	0.12 (5)	Allowed	9.8
$\beta_{0,1}^-$	529.8 (20)	0.3 (19)	1st forbidden unique	10.2
$\beta_{0,0}^-$	570.1 (20)	6.3 (23)	1st forbidden	9.1

## 3 Electron Emissions

		Energy keV	Electrons per 100 disint.	Energy keV
eAL	(U)	5.9 - 21.6	42.2 (13)	
eAK	(U)		0.95 (13)	
	KLL	71.78 - 80.95	}	
	KLX	88.15 - 98.34	}	
	KXY	104.42 - 115.40	}	
ec <sub>7,5</sub> L	(U)	6.80 - 11.39	16.5 (21)	
ec <sub>10,9</sub> M	(U)	11.714 - 13.710	1.53	
ec <sub>1,0</sub> L	(U)	18.59 - 23.18	10.3 (15)	
ec <sub>7,3</sub> L	(U)	19.9 - 24.5	0.013 (3)	
ec <sub>7,5</sub> M	(U)	23.01 - 25.01	4.3 (6)	
ec <sub>7,5</sub> N	(U)	27.118 - 28.180	1.14 (15)	
ec <sub>2,1</sub> L	(U)	30.05 - 34.64	0.04	
ec <sub>1,0</sub> M	(U)	34.8 - 36.8	2.8 (4)	
ec <sub>1,0</sub> N	(U)	38.908 - 39.970	0.77 (12)	
ec <sub>2,1</sub> M	(U)	46.26 - 48.26	0.011	
ec <sub>10,7</sub> L	(U)	53.51 - 58.10	11.2 (12)	
ec <sub>9,5</sub> L	(U)	64.84 - 69.43	10.6 (6)	
ec <sub>10,7</sub> M	(U)	69.72 - 71.72	2.7 (3)	
ec <sub>2,0</sub> L	(U)	70.40 - 74.99	0.034	
ec <sub>10,7</sub> N	(U)	73.828 - 74.890	0.74 (9)	
ec <sub>9,5</sub> M	(U)	81.05 - 83.04	2.57 (14)	

		Energy keV		Electrons per 100 disint.		Energy keV
ec <sub>10,5</sub> L	(U)	82.10 - 86.69		2.70 (13)		
ec <sub>9,5</sub> N	(U)	85.154 - 86.216		0.695 (38)		
ec <sub>10,5</sub> M	(U)	98.31 - 100.31		0.66 (4)		
ec <sub>10,5</sub> N	(U)	102.42 - 103.48		0.18 (1)		
ec <sub>5,1</sub> K	(U)	155.95 (1)		0.0292 (6)		
ec <sub>7,1</sub> K	(U)	184.527 (5)		4.62 (20)		
ec <sub>5,0</sub> K	(U)	196.302 (5)		24.5 (8)		
ec <sub>7,0</sub> K	(U)	224.874 (5)		2.24 (9)		
ec <sub>7,2</sub> L	(U)	226.62 - 231.21		0.0107 (3)		
ec <sub>5,1</sub> L	(U)	249.80 - 254.39		0.0396 (9)		
ec <sub>10,1</sub> K	(U)	259.802 (5)		0.0336 (8)		
ec <sub>5,1</sub> M	(U)	266.01 - 268.00		0.0108 (3)		
ec <sub>7,1</sub> L	(U)	278.37 - 282.96		0.88 (4)		
ec <sub>9,0</sub> K	(U)	282.890 (5)		0.0618 (12)		
ec <sub>5,0</sub> L	(U)	290.15 - 294.74		4.83 (17)		
ec <sub>7,1</sub> M	(U)	294.58 - 296.58		0.22 (1)		
ec <sub>7,1</sub> N	(U)	298.688 - 299.750		0.0659 (25)		
ec <sub>10,0</sub> K	(U)	300.162 (7)		0.16 (10)		
ec <sub>5,0</sub> M	(U)	306.36 - 308.35		1.19 (4)		
ec <sub>5,0</sub> N	(U)	310.463 - 311.525		0.343 (6)		
ec <sub>7,0</sub> L	(U)	318.72 - 323.31		0.460 (14)		
ec <sub>7,0</sub> M	(U)	334.93 - 336.93		0.098 (5)		
ec <sub>7,0</sub> N	(U)	339.035 - 340.097		0.024 (8)		
ec <sub>10,1</sub> L	(U)	353.65 - 358.24		0.0246 (5)		
ec <sub>9,0</sub> L	(U)	376.73 - 381.32		0.0410 (9)		
ec <sub>9,0</sub> M	(U)	392.94 - 394.94		0.01094 (25)		
ec <sub>10,0</sub> L	(U)	394.01 - 398.60		0.056 (16)		
ec <sub>10,0</sub> M	(U)	410.22 - 412.21		0.014 (3)		
$\beta_{0,11}^-$	max:	114.1 (20)		0.0011 (2)	avg:	29.8 (5)
$\beta_{0,10}^-$	max:	154.3 (20)		25.4 (16)	avg:	40.9 (5)
$\beta_{0,9}^-$	max:	171.5 (20)		15.4 (8)	avg:	45.7 (5)
$\beta_{0,8}^-$	max:	189.8 (20)		0.020 (3)	avg:	50.9 (6)
$\beta_{0,7}^-$	max:	229.6 (20)		25.9 (32)	avg:	62.4 (6)
$\beta_{0,6}^-$	max:	249.4 (20)		0.020 (5)	avg:	68.2 (6)
$\beta_{0,5}^-$	max:	258.2 (20)		26.6 (32)	avg:	70.8 (6)
$\beta_{0,4}^-$	max:	268.1 (20)		0.010 (2)	avg:	73.7 (6)
$\beta_{0,3}^-$	max:	271.3 (20)		0.12 (5)	avg:	74.6 (6)
$\beta_{0,1}^-$	max:	529.8 (20)		0.3 (19)	avg:	156.1 (6)
$\beta_{0,0}^-$	max:	570.1 (20)		6.3 (23)	avg:	169.6 (6)

## 4 Photon Emissions

### 4.1 X-Ray Emissions

		Energy keV	Photons per 100 disint.	
XL	(U)	11.619 — 20.714	40.6 (11)	
XK $\alpha_2$	(U)	94.666	9.10 (26)	} K $\alpha$
XK $\alpha_1$	(U)	98.44	14.6 (4)	
XK $\beta_3$	(U)	110.421	} 5.25 (18)	K $\beta'_1$
XK $\beta_1$	(U)	111.298		
XK $\beta'_5$	(U)	111.964		
XK $\beta_2$	(U)	114.407	} 1.80 (7)	K $\beta'_2$
XK $\beta_4$	(U)	115.012		
XKO $_{2,3}$	(U)	115.377		

### 4.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	P $_{\gamma}$ $\times 100$
$\gamma_{10,9}(U)$	17.262 (6)	2.07	M1+1.66%E2	503	0.0041
$\gamma_{7,5}(U)$	28.559 (10)	22.3 (28)	M1+2.44%E2	313 (18)	0.071 (8)
$\gamma_{1,0}(U)$	40.349 (5)	13.9 (19)	M1+54%E2	580 (60)	0.024 (2)
$\gamma_{7,3}(U)$	41.663 (10)	0.032 (7)	[E1]	1.253 (25)	0.014 (3)
$\gamma_{2,1}(U)$	51.81 (4)	0.055	[M1+28%E2]	108	0.0005
$\gamma_{10,7}(U)$	75.269 (10)	16.1 (16)	M1+2.2%E2	11.4 (12)	1.30 (3)
$\gamma_{9,5}(U)$	86.595 (5)	16.1 (9)	M1+0.31%E2	7.08 (14)	1.99 (10)
$\gamma_{2,0}(U)$	92.16 (4)	0.0492	[E2]	19.5	0.0024
$\gamma_{10,5}(U)$	103.86 (1)	4.44 (18)	M1+(1%E2)	4.21 (21)	0.853 (6)
$\gamma_{6,2}(U)$	228.57 (5)	0.0042 (7)			0.0042 (7)
$\gamma_{7,2}(U)$	248.38 (4)	0.082 (2)	[E2]	0.346 (7)	0.0609 (11)
$\gamma_{3,1}(U)$	258.45 (2)	0.0289 (6)	[E1]	0.0547 (11)	0.0274 (6)
$\gamma_{5,1}(U)$	271.555 (10)	0.406 (4)	E2	0.258 (5)	0.323 (3)
$\gamma_{6,1}(U)$	280.61 (5)	0.011 (2)			0.011 (2)
$\gamma_{8,2}(U)$	288.42 (10)	0.016 (3)			0.016 (3)
$\gamma_{3,0}(U)$	298.81 (2)	0.12 (5)	[E1]	0.0396 (8)	0.12 (5)
$\gamma_{7,1}(U)$	300.129 (5)	12.3 (4)	M1+0.6%E2	0.87 (2)	6.60 (21)
$\gamma_{4,0}(U)$	301.99 (10)	0.010 (2)			0.010 (2)
$\gamma_{5,0}(U)$	311.904 (5)	68.9 (12)	M1+1%E2	0.80 (2)	38.3 (5)
$\gamma_{6,0}(U)$	320.73 (10)	0.0051 (4)			0.0051 (4)
$\gamma_{7,0}(U)$	340.476 (5)	7.24 (10)	M1+5%E2	0.62 (2)	4.47 (3)
$\gamma_{10,1}(U)$	375.404 (5)	0.751 (7)	E2	0.0981 (20)	0.684 (7)
$\gamma_{8,0}(U)$	380.28 (10)	0.0037 (9)			0.0037 (9)
$\gamma_{9,0}(U)$	398.492 (5)	1.526 (15)	E2	0.0835 (17)	1.408 (14)
$\gamma_{10,0}(U)$	415.764 (5)	1.97 (12)	M1+83%E2	0.13 (8)	1.747 (7)
$\gamma_{11,0}(U)$	455.96 (10)	0.0011 (2)			0.0011 (2)

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