

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	36.1	(2)	min
Q_{β^-}	:	1367	(6)	keV
β^-	:	100		%

2 β^- Transitions

	Energy keV	Probability $\times 100$	Nature	$\log ft$
$\beta_{0,10}^-$	96 (6)	0.0172 (15)	1st forbidden non-unique	5.93
$\beta_{0,9}^-$	133 (6)	0.0009 (3)		
$\beta_{0,8}^-$	171 (6)	0.019 (4)		
$\beta_{0,7}^-$	257 (6)	1.06 (4)	1st forbidden non-unique	5.58
$\beta_{0,6}^-$	263 (6)	0.0047 (7)		
$\beta_{0,5}^-$	286 (6)	0.0570 (24)		
$\beta_{0,3}^-$	535 (6)	6.32 (9)	1st forbidden non-unique	5.73
$\beta_{0,2}^-$	600 (6)	<0.09	1st forbidden non-unique	>7.7
$\beta_{0,1}^-$	962 (6)	1.57 (9)	1st forbidden non-unique	7.21
$\beta_{0,0}^-$	1367 (6)	91.28 (12)	1st forbidden non-unique	5.99

3 Electron Emissions

		Energy keV	Electrons per 100 disint.	Energy keV
eAL	(Bi)	5.42 - 16.34	0.782 (18)	
eAK	(Bi)		0.029 (4)	
	KLL	57.491 - 63.419	}	
	KLX	70.025 - 77.105	}	
	KXY	82.53 - 90.52	}	
ec _{7,4} K	(Bi)	4.60 (5)	0.050 (18)	
ec _{7,4} L	(Bi)	78.74 - 81.71	0.086 (17)	
ec _{7,4} M	(Bi)	91.13 - 92.55	0.0229 (44)	
ec _{3,2} L	(Bi)	48.916 - 51.885	0.389 (21)	
ec _{3,2} M	(Bi)	61.305 - 62.724	0.092 (5)	
ec _{3,2} N	(Bi)	64.366 - 65.147	0.0234 (13)	
ec _{1,0} K	(Bi)	314.308 (9)	0.36 (3)	
ec _{1,0} L	(Bi)	388.446 - 391.415	0.079 (3)	
ec _{1,0} M	(Bi)	400.835 - 402.254	0.0191 (7)	
ec _{3,1} K	(Bi)	336.624 (15)	0.264 (7)	
ec _{3,1} L	(Bi)	410.76 - 413.73	0.0451 (12)	
ec _{3,1} M	(Bi)	423.15 - 424.57	0.01059 (29)	
ec _{7,1} K	(Bi)	614.149 (25)	0.01833 (48)	
ec _{2,0} K	(Bi)	676.154 (13)	0.0194 (13)	
ec _{3,0} K	(Bi)	741.458 (12)	0.080 (8)	
ec _{3,0} L	(Bi)	815.596 - 818.565	0.0136 (14)	

		Energy keV		Electrons per 100 disint.	Energy keV
$\beta_{0,10}^-$	max:	96	(6)	0.0172 (15)	avg: 25.0 (17)
$\beta_{0,9}^-$	max:	133	(6)	0.0009 (3)	avg: 35.0 (17)
$\beta_{0,8}^-$	max:	171	(6)	0.019 (4)	avg: 45.6 (18)
$\beta_{0,7}^-$	max:	257	(6)	1.06 (4)	avg: 71.0 (18)
$\beta_{0,6}^-$	max:	263	(6)	0.0047 (7)	avg: 72.8 (18)
$\beta_{0,5}^-$	max:	286	(6)	0.0570 (24)	avg: 79.7 (19)
$\beta_{0,3}^-$	max:	535	(6)	6.32 (9)	avg: 159.8 (21)
$\beta_{0,2}^-$	max:	600	(6)	<0.09	avg: 182.2 (21)
$\beta_{0,1}^-$	max:	962	(6)	1.57 (9)	avg: 313.3 (23)
$\beta_{0,0}^-$	max:	1367	(6)	91.28 (12)	avg: 470.9 (24)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(Bi)	9.4207 — 15.7084		0.494 (13)	
XK α_2	(Bi)	74.8157		0.228 (10)	} K α
XK α_1	(Bi)	77.1088		0.381 (17)	}
XK β_3	(Bi)	86.835	}		
XK β_1	(Bi)	87.344	}	0.130 (6)	K β'_1
XK β''_5	(Bi)	87.862	}		
XK β_2	(Bi)	89.732	}		
XK β_4	(Bi)	90.074	}	0.0399 (20)	K β'_2
XK $O_{2,3}$	(Bi)	90.421	}		

4.2 Gamma Transitions and Emissions

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{3,2}$ (Bi)	65.304 (18)	0.59 (3)	M1	6.61 (10)	0.077 (4)
$\gamma_{7,4}$ (Bi)	95.13 (5)	0.19 (3)	M1+74.3%E2	9.3 (4)	0.018 (3)
$\gamma_{5,2}$ (Bi)	313.96 (4)	0.0268 (21)			0.0268 (21)
$\gamma_{7,2}$ (Bi)	342.83 (3)	0.035 (6)	[M1,E2]	0.20 (12)	0.029 (4)
$\gamma_{2,1}$ (Bi)	361.846 (16)	0.049 (6)	[M1,E2]	0.17 (11)	0.042 (3)
$\gamma_{1,0}$ (Bi)	404.834 (9)	4.30 (7)	M1+54.8%E2	0.122 (8)	3.83 (6)
$\gamma_{3,1}$ (Bi)	427.150 (15)	2.13 (5)	M1+0.05%E2	0.1783 (25)	1.81 (4)
$\gamma_{8,2}$ (Bi)	429.65 (6)	0.008 (3)			0.008 (3)
$\gamma_{10,2}$ (Bi)	504.07 (6)	0.0059 (8)			0.0059 (8)
$\gamma_{4,1}$ (Bi)	609.55 (4)	0.033 (9)			0.033 (9)
$\gamma_{5,1}$ (Bi)	675.81 (4)	0.0181 (9)			0.0181 (9)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{7,1}(\text{Bi})$	704.675 (25)	0.492 (10)	M1+0.05%E2	0.0476 (7)	0.47 (1)
$\gamma_{2,0}(\text{Bi})$	766.680 (13)	0.64 (4)	M1	0.0382 (6)	0.62 (4)
$\gamma_{3,0}(\text{Bi})$	831.984 (12)	3.60 (5)	M1+13.8%E2	0.028 (3)	3.50 (5)
$\gamma_{10,1}(\text{Bi})$	865.92 (6)	0.0046 (2)			0.0046 (2)
$\gamma_{4,0}(\text{Bi})$	1014.38 (4)	0.0173 (5)			0.0173 (5)
$\gamma_{5,0}(\text{Bi})$	1080.64 (4)	0.0121 (5)			0.0121 (5)
$\gamma_{6,0}(\text{Bi})$	1103.52 (20)	0.0047 (7)			0.0047 (7)
$\gamma_{7,0}(\text{Bi})$	1109.509 (23)	0.118 (3)	[M1]	0.01472 (21)	0.116 (3)
$\gamma_{8,0}(\text{Bi})$	1196.33 (5)	0.0103 (4)			0.0103 (4)
$\gamma_{9,0}(\text{Bi})$	1234.3 (4)	0.0009 (3)			0.0009 (3)
$\gamma_{10,0}(\text{Bi})$	1270.75 (6)	0.0068 (12)			0.0068 (12)

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