

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	8.32	(7)	min
Q_{β^-}	:	1308	(20)	keV
β^-	:	100		%

2 β^- Transitions

	Energy keV	Probability $\times 100$	Nature	$\log ft$
$\beta_{0,3}^-$	659 (20)	3.0 (4)	1st forbidden non-unique	5.41
$\beta_{0,2}^-$	1003 (20)	35 (7)	1st forbidden non-unique	5.24
$\beta_{0,0}^-$	1308 (20)	62 (7)	1st forbidden non-unique	5.67

3 Electron Emissions

		Energy keV	Electrons per 100 disint.	Energy keV
e _{AL}	(Tl)	5.25 - 15.32	5.1 (4)	
e _{AK}	(Tl)		0.30 (7)	
	KLL	54.587 - 59.954	}	
	KLX	66.37 - 72.86	}	
	KXY	78.12 - 85.50	}	
ec _{2,0} K	(Tl)	219.366 (6)	8.0 (15)	
ec _{2,0} L	(Tl)	289.549 - 292.238	1.35 (26)	
ec _{2,0} M	(Tl)	301.192 - 302.507	0.31 (6)	
ec _{2,0} N	(Tl)	304.050 - 304.777	0.080 (15)	
ec _{3,2} K	(Tl)	258.99 (17)	0.122 (24)	
ec _{3,2} L	(Tl)	329.17 - 331.86	0.0204 (41)	
ec _{3,0} K	(Tl)	563.89 (5)	0.0906 (18)	
ec _{3,0} L	(Tl)	634.07 - 636.76	0.01498 (30)	
$\beta_{0,3}^-$	max:	659 (20)	3.0 (4)	avg: 203 (7)
$\beta_{0,2}^-$	max:	1003 (20)	35 (7)	avg: 330 (8)
$\beta_{0,0}^-$	max:	1308 (20)	62 (7)	avg: 450 (8)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV	Photons per 100 disint.	
XL	(Tl)	8.9531 — 14.7362	2.9 (4)	
XK α_2	(Tl)	70.8325	2.3 (5)	} K α

		Energy keV	Photons per 100 disint.	
XK α_1	(Tl)	72.8725	3.9 (8)	}
XK β_3	(Tl)	82.118	}	
XK β_1	(Tl)	82.577	}	1.32 (25) K β'_1
XK β'_5	(Tl)	83.115	}	
XK β_2	(Tl)	84.838	}	
XK β_4	(Tl)	85.134	}	0.39 (8) K β'_2
XKO $_{2,3}$	(Tl)	85.444	}	

4.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P $_{\gamma}$ $\times 100$
$\gamma_{1,0}$ (Tl)	265.832 (5)	0.014 (7)	E2	0.1603 (23)	0.012 (6)
$\gamma_{2,0}$ (Tl)	304.896 (6)	36 (7)	M1	0.375 (6)	26 (5)
$\gamma_{3,2}$ (Tl)	344.52 (17)	0.70 (14)	M1	0.269 (4)	0.55 (11)
$\gamma_{3,1}$ (Tl)	383.59 (6)	0.014 (7)	M1(+E2)	0.13 (8)	0.012 (6)
$\gamma_{3,0}$ (Tl)	649.42 (5)	2.3 (3)	M1	0.0501 (7)	2.2 (3)

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