

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Scandium (Z=21), continued			Titanium (Z=22), continued		
E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
⁴⁵ Sc 4109.60(9)	0.073(10)	0.0049(7)	⁴⁷ Ti 983.517(4)	0.1140(16)	0.00722(10)
⁴⁵ Sc 4173.36(17)	0.11(3)	0.0074(20)	⁴⁹ Ti 1121.130(6)	0.0630(14)	0.00399(9)
⁴⁵ Sc 4231.81(16)	0.073(9)	0.0049(6)	⁵⁰ Ti 1166.6(4)	3.9×10^{-3}	2.5×10^{-4}
⁴⁵ Sc 4237.72(10)	0.096(17)	0.0065(11)	⁴⁸ Ti 1381.745(5)	5.18(12)	0.328(8)
⁴⁵ Sc 4293.30(21)	0.073(11)	0.0049(7)	⁴⁸ Ti 1498.663(7)	0.297(5)	0.0188(3)
⁴⁵ Sc 4377.46(8)	0.127(15)	0.0086(10)	⁴⁹ Ti 1553.786(6)	0.0967(22)	0.00612(14)
⁴⁵ Sc 4465.89(13)	0.106(13)	0.0071(9)	⁴⁸ Ti 1585.941(5)	0.624(8)	0.0395(5)
⁴⁵ Sc 4498.85(11)	0.149(15)	0.0100(10)	⁴⁸ Ti 1589.282(10)	0.0524(16)	0.00332(10)
⁴⁵ Sc 4617.93(9)	0.089(15)	0.0060(10)	⁴⁸ Ti 1761.974(7)	0.311(4)	0.01969(25)
⁴⁵ Sc 4679.04(18)	0.112(14)	0.0075(9)	⁴⁸ Ti 1793.476(8)	0.1530(24)	0.00969(15)
⁴⁵ Sc 4720.86(11)	0.171(16)	0.0115(11)	⁴⁸ Ti 2836.1(7)	0.055(12)	0.0035(8)
⁴⁵ Sc 4823.18(9)	0.078(11)	0.0053(7)	⁴⁸ Ti 2836.9(7)	0.055(12)	0.0035(8)
⁴⁵ Sc 4883.71(13)	0.128(13)	0.0086(9)	⁴⁸ Ti 2943.07(3)	0.0614(18)	0.00389(11)
⁴⁵ Sc 4891.84(10)	0.094(12)	0.0063(8)	⁴⁸ Ti 3026.704(20)	0.145(3)	0.00918(19)
⁴⁵ Sc 4919.38(11)	0.092(13)	0.0062(9)	⁴⁸ Ti 3027.0(7)	0.13(3)	0.0082(19)
⁴⁵ Sc 4974.76(9)	0.498(24)	0.0336(16)	⁴⁸ Ti 3475.58(3)	0.1020(25)	0.00646(16)
⁴⁵ Sc 4993.58(10)	0.177(15)	0.0119(10)	⁴⁸ Ti 3733.627(20)	0.0873(25)	0.00553(16)
⁴⁵ Sc 5085.09(10)	0.103(14)	0.0069(9)	⁴⁸ Ti 3920.404(22)	0.0839(23)	0.00531(15)
⁴⁵ Sc 5128.48(12)	0.093(15)	0.0063(10)	⁴⁸ Ti 3923.4(7)	0.13(3)	0.0082(19)
⁴⁵ Sc 5163.42(10)	0.149(20)	0.0100(13)	⁴⁸ Ti 4713.859(25)	0.0661(21)	0.00418(13)
⁴⁵ Sc 5210.11(12)	0.085(15)	0.0057(10)	⁴⁸ Ti 4881.394(15)	0.308(7)	0.0195(4)
⁴⁵ Sc 5267.04(7)	0.38(3)	0.0256(20)	⁴⁸ Ti 4966.802(15)	0.196(5)	0.0124(3)
⁴⁵ Sc 5286.20(8)	0.123(15)	0.0083(10)	⁴⁸ Ti 6418.426(14)	1.96(6)	0.124(4)
⁴⁵ Sc 5335.89(8)	0.20(3)	0.0135(20)	⁴⁸ Ti 6555.911(14)	0.334(8)	0.0211(5)
⁴⁵ Sc 5346.19(10)	0.094(19)	0.0063(13)	⁴⁸ Ti 6760.084(14)	2.97(9)	0.188(6)
⁴⁵ Sc 5445.75(8)	0.170(19)	0.0115(13)	Vanadium (Z=23), At. Wt.=50.9415(1), $\sigma_{\gamma}=4.96(4)$		
⁴⁵ Sc 5481.62(9)	0.142(19)	0.0096(13)	⁵¹ V 17.152(6)	0.260(20)	0.0155(12)
⁴⁵ Sc 5555.57(10)	0.079(14)	0.0053(9)	⁵¹ V 22.764(3)	0.0700(20)	0.00416(12)
⁴⁵ Sc 5583.82(10)	0.118(16)	0.0080(11)	⁵¹ V 124.453(4)	0.23(5)	0.014(3)
⁴⁵ Sc 5624.09(8)	0.198(20)	0.0133(13)	⁵¹ V 125.082(3)	1.61(4)	0.0958(24)
⁴⁵ Sc 5665.71(9)	0.145(19)	0.0098(13)	⁵¹ V 147.846(3)	0.253(6)	0.0151(4)
⁴⁵ Sc 5678.79(13)	0.077(16)	0.0052(11)	⁵¹ V 295.023(14)	0.164(4)	0.00976(24)
⁴⁵ Sc 5743.38(7)	0.184(17)	0.0124(11)	⁵¹ V 419.475(13)	0.249(6)	0.0148(4)
⁴⁵ Sc 5781.24(15)	0.072(15)	0.0049(10)	⁵¹ V 436.627(13)	0.397(9)	0.0236(5)
⁴⁵ Sc 5896.94(8)	0.42(3)	0.0283(20)	⁵¹ V 645.703(13)	0.769(17)	0.0457(10)
⁴⁵ Sc 5904.31(12)	0.084(17)	0.0057(11)	⁵¹ V 682.031(17)	0.0180(10)	0.00107(6)
⁴⁵ Sc 5977.32(10)	0.075(12)	0.0051(8)	⁵¹ V 698.104(13)	0.049(4)	0.00291(24)
⁴⁵ Sc 6046.15(9)	0.144(19)	0.0097(13)	⁵¹ V 712.907(19)	0.0597(23)	0.00355(14)
⁴⁵ Sc 6055.05(5)	0.265(24)	0.0179(16)	⁵¹ V 793.546(13)	0.199(5)	0.0118(3)
⁴⁵ Sc 6097.64(10)	0.082(12)	0.0055(8)	⁵¹ V 823.184(13)	0.320(8)	0.0190(5)
⁴⁵ Sc 6170.22(4)	0.47(5)	0.032(3)	⁵¹ V 845.948(13)	0.252(7)	0.0150(4)
⁴⁵ Sc 6201.40(13)	0.073(8)	0.0049(5)	⁵¹ V 886.631(21)	0.0171(7)	0.00102(4)
⁴⁵ Sc 6300.79(8)	0.183(25)	0.0123(17)	⁵¹ V 982.175(19)	0.0307(17)	0.00183(10)
⁴⁵ Sc 6309.27(11)	0.075(8)	0.0051(5)	⁵¹ V 1001.583(21)	0.0651(21)	0.00387(12)
⁴⁵ Sc 6317.86(4)	0.58(4)	0.039(3)	⁵¹ V 1254.878(17)	0.0257(13)	0.00153(8)
⁴⁵ Sc 6329.00(13)	0.185(22)	0.0125(15)	⁵¹ V 1270.951(15)	0.022(5)	0.0013(3)
⁴⁵ Sc 6349.80(4)	0.53(4)	0.036(3)	⁵¹ V 1272.67(3)	0.0291(21)	0.00173(12)
⁴⁵ Sc 6364.43(9)	0.119(20)	0.0080(13)	⁵¹ V 1307.279(17)	0.0410(19)	0.00244(11)
⁴⁵ Sc 6457.68(7)	0.099(14)	0.0067(9)	⁵¹ V 1322.664(22)	0.047(10)	0.0028(6)
⁴⁵ Sc 6468.55(13)	0.122(21)	0.0082(14)	⁵¹ V 1322.98(3)	0.0260(21)	0.00155(12)
⁴⁵ Sc 6507.47(10)	0.107(12)	0.0072(8)	⁵¹ V 1333.52(3)	0.0345(21)	0.00205(12)
⁴⁵ Sc 6557.06(6)	0.384(24)	0.0259(16)	⁵¹ V 1358.498(19)	0.151(5)	0.0090(3)
⁴⁵ Sc 6640.96(6)	0.150(23)	0.0101(16)	⁵¹ V 1401.641(16)	0.070(4)	0.00416(24)
⁴⁵ Sc 6646.04(6)	0.113(12)	0.0076(8)	⁵¹ V 1418.793(15)	0.068(4)	0.00405(24)
⁴⁵ Sc 6716.79(4)	0.312(22)	0.0210(15)	⁵¹ V 1434.10(3)d	4.81(10)	0.286[91%]
⁴⁵ Sc 6839.09(4)	0.95(4)	0.064(3)	⁵¹ V 1558.843(18)	0.323(8)	0.0192(5)
⁴⁵ Sc 6840.34(4)	0.76(11)	0.051(7)	⁵⁰ V 1609.220(20)	0.0359(17)	0.00214(10)
⁴⁵ Sc 6874.18(7)	0.125(14)	0.0084(9)	⁵¹ V 1611.758(25)	0.0236(15)	0.00140(9)
⁴⁵ Sc 7117.46(3)	0.39(3)	0.0263(20)	⁵¹ V 1622.296(25)	0.0206(7)	0.00123(4)
⁴⁵ Sc 7233.39(5)	0.110(14)	0.0074(9)	⁵¹ V 1634.068(22)	0.0359(19)	0.00214(11)
⁴⁵ Sc 7489.58(3)	0.077(12)	0.0052(8)	⁵¹ V 1635.382(24)	0.020(4)	0.00119(24)
⁴⁵ Sc 7635.84(3)	0.40(3)	0.0270(20)	⁵¹ V 1664.192(17)	0.0519(24)	0.00309(14)
⁴⁵ Sc 7924.84(4)	0.095(18)	0.0064(12)	⁵¹ V 1732.563(20)	0.0161(16)	0.00096(10)
⁴⁵ Sc 8132.507(25)	0.48(3)	0.0324(20)	⁵¹ V 1775.431(21)	0.027(6)	0.0016(4)
⁴⁵ Sc 8175.176(21)	1.80(6)	0.121(4)	⁵¹ V 1777.961(19)	0.169(13)	0.0101(8)
⁴⁵ Sc 8315.73(4)	0.41(3)	0.0276(20)	⁵¹ V 1952.964(14)	0.0677(25)	0.00403(15)
⁴⁵ Sc 8470.363(20)	0.120(14)	0.0081(9)	⁵¹ V 2020.749(18)	0.0214(17)	0.00127(10)
⁴⁵ Sc 8532.122(20)	0.89(4)	0.060(3)	⁵¹ V 2083.652(14)	0.0339(19)	0.00202(11)
⁴⁵ Sc 8759.850(20)	0.168(16)	0.0113(11)	⁵¹ V 2100.804(14)	0.0239(15)	0.00142(9)
Titanium (Z=22), At. Wt.=47.867(1), $\sigma_{\gamma}=6.08(19)$			⁵¹ V 2145.826(18)	0.140(4)	0.00833(24)
⁴⁸ Ti 137.504(8)	0.0542(9)	0.00343(6)	⁵¹ V 2168.589(18)	0.0166(12)	0.00099(7)
⁴⁶ Ti 159.376(14)	0.0090(8)	0.00057(5)	⁵¹ V 2410.436(21)	0.0253(17)	0.00151(10)
⁵⁰ Ti 320.076(6)d	0.00860(9)	0.000544[86%]	⁵¹ V 2422.18(3)	0.112(24)	0.0067(14)
⁴⁸ Ti 341.706(5)	1.840(21)	0.1165(13)	⁵¹ V 2841.64(3)	0.0333(19)	0.00198(11)

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E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Manganese (Z=25), continued			Iron (Z=26), continued		
⁵⁵ Mn 5437.71(15)	0.087(7)	0.0048(4)	⁵⁶ Fe 4674.99(11)	0.0125(11)	0.00068(6)
⁵⁵ Mn 5527.08(8)	0.788(22)	0.0435(12)	⁵⁶ Fe 4724.54(10)	0.0075(11)	0.00041(6)
⁵⁵ Mn 5761.23(11)	0.200(12)	0.0110(7)	⁵⁶ Fe 4809.99(7)	0.0416(13)	0.00226(7)
⁵⁵ Mn 5920.39(8)	1.06(3)	0.0585(17)	⁵⁶ Fe 4948.70(11)	0.0173(10)	0.00094(5)
⁵⁵ Mn 6031.03(18)	0.067(7)	0.0037(4)	⁵⁴ Fe 5507.29(19)	0.0247(15)	0.00134(8)
⁵⁵ Mn 6104.29(12)	0.213(10)	0.0117(6)	⁵⁶ Fe 5920.449(21)	0.225(5)	0.0122(3)
⁵⁵ Mn 6430.04(19)	0.088(7)	0.0049(4)	⁵⁶ Fe 6018.532(20)	0.227(5)	0.0123(3)
⁵⁵ Mn 6783.74(12)	0.378(17)	0.0209(9)	⁵⁶ Fe 6380.67(3)	0.0187(20)	0.00101(11)
⁵⁵ Mn 6929.22(13)	0.248(12)	0.0137(7)	⁵⁶ Fe 7278.838(10)	0.137(4)	0.00743(22)
⁵⁵ Mn 7057.89(9)	1.22(3)	0.0673(17)	⁵⁶ Fe 7631.136(14)	0.653(13)	0.0354(7)
⁵⁵ Mn 7159.63(10)	0.643(24)	0.0355(13)	⁵⁶ Fe 7645.5450(10)	0.549(11)	0.0298(6)
⁵⁵ Mn 7243.52(9)	1.36(3)	0.0750(17)	⁵⁴ Fe 8886.18(23)	0.0162(12)	0.00088(7)
⁵⁵ Mn 7270.14(12)	0.362(15)	0.0200(8)	⁵⁴ Fe 9297.68(19)	0.0747(25)	0.00405(14)
Iron (Z=26), At. Wt.=55.845(2), σ_{γ}=2.56(13)			Cobalt (Z=27), At. Wt.=58.933200(9), σ_{γ}=37.18(6)		
⁵⁶ Fe 14.411(14)	0.149(3)	0.00809(16)	⁵⁹ Co 58.603(7)d	0.411(4)	0.02113[75%]
⁵⁶ Fe 122.077(14)	0.096(3)	0.00521(16)	⁵⁹ Co 158.517(17)	1.200(15)	0.0617(8)
⁵⁶ Fe 136.488(14)	0.0118(3)	0.000640(16)	⁵⁹ Co 195.90(3)	0.190(4)	0.00977(21)
⁵⁶ Fe 230.270(13)	0.0274(5)	0.00149(3)	⁵⁹ Co 224.12(7)	0.106(23)	0.0055(12)
⁵⁸ Fe 287.025(19)	0.00218(15)	1.18(8) $\times 10^{-4}$	⁵⁹ Co 229.879(17)	7.18(8)	0.369(4)
⁵⁶ Fe 352.347(12)	0.273(3)	0.01481(16)	⁵⁹ Co 254.379(17)	1.290(16)	0.0663(8)
⁵⁶ Fe 366.758(10)	0.0497(7)	0.00270(4)	⁵⁹ Co 277.161(17)	6.77(8)	0.348(4)
⁵⁴ Fe 411.57(21)	0.022(5)	0.0012(3)	⁵⁹ Co 337.296(18)	0.226(4)	0.01162(21)
⁵⁶ Fe 569.885(19)	0.0139(3)	0.000754(16)	⁵⁹ Co 349.954(24)	0.124(4)	0.00638(21)
⁵⁶ Fe 657.46(11)	0.0067(18)	0.00036(10)	⁵⁹ Co 391.218(15)	1.080(14)	0.0555(7)
⁵⁶ Fe 691.960(19)	0.1370(18)	0.00743(10)	⁵⁹ Co 435.677(17)	0.789(10)	0.0406(5)
⁵⁷ Fe 810.71(3)	0.0274(9)	0.00149(5)	⁵⁹ Co 447.711(19)	3.41(4)	0.1754(21)
⁵⁷ Fe 863.80(5)	0.0072(4)	0.000391(22)	⁵⁹ Co 461.061(18)	0.519(9)	0.0267(5)
⁵⁷ Fe 867.4(4)	~0.007	~0.0004	⁵⁹ Co 484.257(16)	0.804(11)	0.0413(6)
⁵⁶ Fe 898.27(3)	0.0540(10)	0.00293(5)	⁵⁹ Co 497.269(16)	2.16(4)	0.1111(21)
⁵⁶ Fe 920.839(19)	0.0199(6)	0.00108(3)	⁵⁹ Co 555.972(13)	5.76(6)	0.296(3)
⁵⁶ Fe 1018.93(3)	0.0507(11)	0.00275(6)	⁵⁹ Co 602.71(4)	0.132(7)	0.0068(4)
⁵⁶ Fe 1260.448(19)	0.0684(11)	0.00371(6)	⁵⁹ Co 665.48(3)	0.0769(24)	0.00395(12)
⁵⁶ Fe 1358.540(22)	0.0211(6)	0.00115(3)	⁵⁹ Co 680.15(3)	0.273(5)	0.0140(3)
⁵⁶ Fe 1612.786(18)	0.1530(22)	0.00830(12)	⁵⁹ Co 717.310(18)	0.845(14)	0.0435(7)
⁵⁶ Fe 1627.197(20)	0.0100(5)	0.00054(3)	⁵⁹ Co 726.640(21)	0.448(10)	0.0230(5)
⁵⁷ Fe 1674.31(21)	~0.007	~0.0004	⁵⁹ Co 781.79(4)	0.146(6)	0.0075(3)
⁵⁷ Fe 1674.49(6)	~0.007	~0.0004	⁵⁹ Co 785.628(21)	2.41(7)	0.124(4)
⁵⁶ Fe 1722.38(10)	0.0074(6)	0.00040(3)	⁵⁹ Co 798.97(7)	0.120(10)	0.0062(5)
⁵⁶ Fe 1725.288(21)	0.181(3)	0.00982(16)	⁵⁹ Co 854.06(4)	0.187(6)	0.0096(3)
⁵⁶ Fe 1810.54(16)	0.0067(7)	0.00036(4)	⁵⁹ Co 862.30(6)	0.079(8)	0.0041(4)
⁵⁶ Fe 1965.39(15)	0.0078(14)	0.00042(8)	⁵⁹ Co 883.11(4)	0.075(5)	0.0039(3)
⁵⁶ Fe 2066.08(6)	0.0146(7)	0.00079(4)	⁵⁹ Co 884.98(4)	0.156(6)	0.0080(3)
⁵⁶ Fe 2129.47(7)	0.0206(7)	0.00112(4)	⁵⁹ Co 901.28(3)	0.418(9)	0.0215(5)
⁵⁴ Fe 2469.24(13)	0.0116(7)	0.00063(4)	⁵⁹ Co 908.37(3)	0.100(4)	0.00514(21)
⁵⁶ Fe 2526.34(7)	0.0112(5)	0.00061(3)	⁵⁹ Co 928.48(3)	0.145(9)	0.0075(5)
⁵⁶ Fe 2682.69(11)	0.0114(9)	0.00062(5)	⁵⁹ Co 930.612(23)	0.408(22)	0.0210(11)
⁵⁶ Fe 2697.10(11)	0.0090(9)	0.00049(5)	⁵⁹ Co 944.07(6)	0.18(7)	0.009(4)
⁵⁶ Fe 2721.21(4)	0.0384(13)	0.00208(7)	⁵⁹ Co 945.314(17)	0.98(4)	0.0504(21)
⁵⁶ Fe 2755.93(19)	0.015(5)	0.0008(3)	⁵⁹ Co 947.41(6)	0.121(7)	0.0062(4)
⁵⁶ Fe 2832.84(10)	0.0142(22)	0.00077(12)	⁵⁹ Co 963.58(3)	0.191(11)	0.0098(6)
⁵⁶ Fe 2835.82(7)	0.0067(14)	0.00036(8)	⁵⁹ Co 972.82(16)	0.082(8)	0.0042(4)
⁵⁶ Fe 2873.00(7)	0.0099(14)	0.00054(8)	⁵⁹ Co 1005.668(22)	0.127(6)	0.0065(3)
⁵⁶ Fe 2954.12(10)	0.0110(7)	0.00060(4)	⁵⁹ Co 1023.64(3)	0.22(3)	0.0113(15)
⁵⁶ Fe 3103.26(7)	0.0172(7)	0.00093(4)	⁵⁹ Co 1075.66(10)	0.099(7)	0.0051(4)
⁵⁶ Fe 3168.40(10)	0.0092(7)	0.00050(4)	⁵⁹ Co 1103.73(6)	0.277(12)	0.0142(6)
⁵⁶ Fe 3185.86(9)	0.0183(8)	0.00099(4)	⁵⁹ Co 1117.76(8)	0.106(5)	0.0055(3)
⁵⁶ Fe 3225.33(7)	0.0105(7)	0.00057(4)	⁵⁹ Co 1206.47(3)	0.072(11)	0.0037(6)
⁵⁶ Fe 3239.74(7)	0.0094(13)	0.00051(7)	⁵⁹ Co 1207.77(3)	0.202(12)	0.0104(6)
⁵⁶ Fe 3267.25(8)	0.0367(13)	0.00199(7)	⁵⁹ Co 1215.96(3)	0.520(9)	0.0267(5)
⁵⁶ Fe 3291.06(5)	0.0072(6)	0.00039(3)	⁵⁹ Co 1216.44(18)	0.24(22)	0.012(11)
⁵⁶ Fe 3356.67(12)	0.0098(6)	0.00053(3)	⁵⁹ Co 1226.78(5)	0.100(4)	0.00514(21)
⁵⁶ Fe 3413.13(5)	0.0449(14)	0.00244(8)	⁵⁹ Co 1238.566(24)	0.290(7)	0.0149(4)
⁵⁶ Fe 3436.66(9)	0.045(4)	0.00244(22)	⁵⁹ Co 1274.32(4)	0.205(6)	0.0105(3)
⁵⁷ Fe 3486.74(11)	0.0114(6)	0.00062(3)	⁵⁹ Co 1277.46(3)	0.175(6)	0.0090(3)
⁵⁶ Fe 3776.90(6)	0.0075(7)	0.00041(4)	⁵⁹ Co 1283.22(7)	0.194(6)	0.0100(3)
⁵⁴ Fe 3790.80(25)	0.0075(7)	0.00041(4)	⁵⁹ Co 1334.74(6)	0.155(9)	0.0080(5)
⁵⁶ Fe 3842.43(9)	0.0086(7)	0.00047(4)	⁵⁹ Co 1362.53(4)	0.092(6)	0.0047(3)
⁵⁶ Fe 3854.51(6)	0.0333(12)	0.00181(7)	⁵⁹ Co 1419.30(8)	0.077(6)	0.0040(3)
⁵⁶ Fe 3921.5(8)	0.036(4)	0.00195(22)	⁵⁹ Co 1472.04(3)	0.195(8)	0.0100(4)
⁵⁶ Fe 4218.27(5)	0.099(3)	0.00537(16)	⁵⁹ Co 1507.33(3)	0.463(9)	0.0238(5)
⁵⁶ Fe 4274.74(12)	0.0141(8)	0.00077(4)	⁵⁹ Co 1515.720(25)	1.740(25)	0.0895(13)
⁵⁶ Fe 4378.56(8)	0.0067(6)	0.00036(3)	⁵⁹ Co 1553.65(3)	0.120(6)	0.0062(3)
⁵⁶ Fe 4406.07(7)	0.0453(13)	0.00246(7)	⁵⁹ Co 1556.08(9)	0.099(6)	0.0051(3)
⁵⁶ Fe 4463.01(10)	0.0162(11)	0.00088(6)	⁵⁹ Co 1690.72(3)	0.215(14)	0.0111(7)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Cobalt (Z=27), continued			Cobalt (Z=27), continued		
E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
⁵⁹ Co 1692.83(5)	0.214(14)	0.0110(7)	⁵⁹ Co 5003.24(8)	0.264(11)	0.0136(6)
⁵⁹ Co 1703.91(10)	0.074(5)	0.0038(3)	⁵⁹ Co 5040.76(16)	0.086(8)	0.0044(4)
⁵⁹ Co 1774.65(4)	0.30(8)	0.015(4)	⁵⁹ Co 5068.69(9)	0.109(10)	0.0056(5)
⁵⁹ Co 1786.01(17)	0.157(9)	0.0081(5)	⁵⁹ Co 5127.84(9)	0.205(12)	0.0105(6)
⁵⁹ Co 1787.45(4)	0.08(5)	0.004(3)	⁵⁹ Co 5150.08(9)	0.302(13)	0.0155(7)
⁵⁹ Co 1799.92(4)	0.269(7)	0.0138(4)	⁵⁹ Co 5181.77(7)	0.912(23)	0.0469(12)
⁵⁹ Co 1808.82(7)	0.211(7)	0.0109(4)	⁵⁹ Co 5211.98(6)	0.072(11)	0.0037(6)
⁵⁹ Co 1808.98(10)	0.15(8)	0.008(4)	⁵⁹ Co 5217.09(20)	0.081(10)	0.0042(5)
⁵⁹ Co 1818.58(5)	0.179(7)	0.0092(4)	⁵⁹ Co 5270.15(4)	0.404(11)	0.0208(6)
⁵⁹ Co 1830.800(25)	1.700(23)	0.0874(12)	⁵⁹ Co 5358.44(8)	0.160(8)	0.0082(4)
⁵⁹ Co 1844.96(8)	0.092(5)	0.0047(3)	⁵⁹ Co 5370.21(8)	0.188(9)	0.0097(5)
⁵⁹ Co 1852.70(3)	0.456(10)	0.0234(5)	⁵⁹ Co 5510.56(6)	0.163(11)	0.0084(6)
⁵⁹ Co 1888.77(4)	0.089(6)	0.0046(3)	⁵⁹ Co 5602.97(4)	0.434(16)	0.0223(8)
⁵⁹ Co 1933.82(8)	0.094(6)	0.0048(3)	⁵⁹ Co 5614.67(5)	0.399(15)	0.0205(8)
⁵⁹ Co 2022.51(16)	0.082(6)	0.0042(3)	⁵⁹ Co 5639.03(4)	0.379(15)	0.0195(8)
⁵⁹ Co 2032.83(7)	0.393(11)	0.0202(6)	⁵⁹ Co 5660.93(4)	1.89(6)	0.097(3)
⁵⁹ Co 2074.83(8)	0.102(9)	0.0052(5)	⁵⁹ Co 5704.28(5)	0.177(9)	0.0091(5)
⁵⁹ Co 2099.19(7)	0.089(8)	0.0046(4)	⁵⁹ Co 5742.53(4)	0.766(23)	0.0394(12)
⁵⁹ Co 2221.61(4)	0.261(8)	0.0134(4)	⁵⁹ Co 5852.04(5)	0.110(10)	0.0057(5)
⁵⁹ Co 2279.78(6)	0.079(11)	0.0041(6)	⁵⁹ Co 5925.89(4)	0.643(18)	0.0331(9)
⁵⁹ Co 2281.57(9)	0.123(11)	0.0063(6)	⁵⁹ Co 5975.98(4)	2.9(4)	0.149(21)
⁵⁹ Co 2309.66(10)	0.087(6)	0.0045(3)	⁵⁹ Co 6040.60(4)	0.166(13)	0.0085(7)
⁵⁹ Co 2319.46(10)	0.122(7)	0.0063(4)	⁵⁹ Co 6110.81(6)	0.213(11)	0.0110(6)
⁵⁹ Co 2453.82(20)	0.072(5)	0.0037(3)	⁵⁹ Co 6149.99(7)	0.186(9)	0.0096(5)
⁵⁹ Co 2527.12(7)	0.146(8)	0.0075(4)	⁵⁹ Co 6274.84(3)	0.222(11)	0.0114(6)
⁵⁹ Co 2557.46(21)	0.086(6)	0.0044(3)	⁵⁹ Co 6283.91(4)	0.204(11)	0.0105(6)
⁵⁹ Co 2569.92(9)	0.154(7)	0.0079(4)	⁵⁹ Co 6485.99(3)	2.32(5)	0.119(3)
⁵⁹ Co 2607.47(10)	0.165(8)	0.0085(4)	⁵⁹ Co 6706.01(3)	3.02(6)	0.155(3)
⁵⁹ Co 2680.64(24)	0.11(3)	0.0057(15)	⁵⁹ Co 6877.16(3)	3.02(6)	0.155(3)
⁵⁹ Co 2692.02(15)	0.076(7)	0.0039(4)	⁵⁹ Co 6948.87(3)	0.249(11)	0.0128(6)
⁵⁹ Co 2727.19(13)	0.100(7)	0.0051(4)	⁵⁹ Co 6985.41(3)	1.05(13)	0.054(7)
⁵⁹ Co 2740.06(18)	0.103(7)	0.0053(4)	⁵⁹ Co 7055.92(3)	0.666(19)	0.0342(10)
⁵⁹ Co 2790.22(20)	0.080(19)	0.0041(10)	⁵⁹ Co 7203.22(3)	0.369(16)	0.0190(8)
⁵⁹ Co 2900.50(24)	0.076(20)	0.0039(10)	⁵⁹ Co 7214.42(3)	1.38(3)	0.0710(15)
⁵⁹ Co 2926.19(18)	0.116(8)	0.0060(4)	⁵⁹ Co 7433.07(3)	0.083(7)	0.0043(4)
⁵⁹ Co 2978.11(17)	0.075(7)	0.0039(4)	⁵⁹ Co 7491.54(3)	1.16(3)	0.0596(15)
⁵⁹ Co 2995.43(13)	0.097(7)	0.0050(4)			
⁵⁹ Co 3193.65(16)	0.089(6)	0.0046(3)	Nickel (Z=28), At. Wt.=58.6934(2), $\sigma_{\gamma}=4.39(15)$		
⁵⁹ Co 3216.43(19)	0.105(13)	0.0054(7)	⁶² Ni 155.500(16)	0.0666(12)	0.00344(6)
⁵⁹ Co 3238.16(19)	0.089(8)	0.0046(4)	⁶⁰ Ni 282.917(18)	0.211(3)	0.01089(15)
⁵⁹ Co 3283.78(13)	0.101(8)	0.0052(4)	⁵⁸ Ni 339.420(11)	0.1670(21)	0.00862(11)
⁵⁹ Co 3335.29(14)	0.104(7)	0.0053(4)	⁶² Ni 362.385(18)	0.0342(5)	0.00177(3)
⁵⁹ Co 3380.22(14)	0.210(10)	0.0108(5)	⁵⁸ Ni 464.978(12)	0.843(10)	0.0435(5)
⁵⁹ Co 3664.13(21)	0.080(9)	0.0041(5)	⁶² Ni 483.351(20)	0.0156(3)	0.000805(15)
⁵⁹ Co 3677.05(13)	0.109(8)	0.0056(4)	⁶² Ni 845.733(18)	0.0184(3)	0.000950(15)
⁵⁹ Co 3749.21(7)	0.415(13)	0.0213(7)	⁵⁸ Ni 877.977(11)	0.236(3)	0.01219(15)
⁵⁹ Co 3815.20(19)	0.081(7)	0.0042(4)	⁶¹ Ni 1172.84(5)	0.0122(4)	0.000630(21)
⁵⁹ Co 3823.54(19)	0.073(7)	0.0038(4)	⁵⁸ Ni 1188.781(13)	0.0559(9)	0.00289(5)
⁵⁹ Co 3840.83(15)	0.129(8)	0.0066(4)	⁵⁸ Ni 1301.434(13)	0.052(3)	0.00268(15)
⁵⁹ Co 3897.02(17)	0.092(7)	0.0047(4)	⁵⁸ Ni 1340.230(20)	0.0200(5)	0.00103(3)
⁵⁹ Co 3929.84(12)	0.272(11)	0.0140(6)	⁶⁴ Ni 1481.84(5)d	0.003300(7)	1.704×10 ⁻⁴ [13%]
⁵⁹ Co 3966.15(18)	0.239(11)	0.0123(6)	⁶⁰ Ni 1502.04(6)	0.0154(4)	0.000795(21)
⁵⁹ Co 3994.92(24)	0.095(17)	0.0049(9)	⁵⁸ Ni 1536.920(16)	0.0194(5)	0.00100(3)
⁵⁹ Co 4026.26(12)	0.272(10)	0.0140(5)	⁵⁸ Ni 1734.687(16)	0.0172(4)	0.000888(21)
⁵⁹ Co 4032.03(18)	0.208(9)	0.0107(5)	⁵⁸ Ni 1949.911(17)	0.0476(10)	0.00246(5)
⁵⁹ Co 4148.74(21)	0.086(21)	0.0044(11)	⁶⁰ Ni 2123.93(3)	0.0379(10)	0.00196(5)
⁵⁹ Co 4155.64(24)	0.128(8)	0.0066(4)	⁵⁸ Ni 2554.116(19)	0.0431(9)	0.00223(5)
⁵⁹ Co 4208.01(12)	0.255(13)	0.0131(7)	⁵⁸ Ni 2842.130(17)	0.0463(10)	0.00239(5)
⁵⁹ Co 4212.56(14)	0.082(9)	0.0042(5)	⁵⁸ Ni 3221.146(23)	0.0157(11)	0.00081(6)
⁵⁹ Co 4329.00(18)	0.105(8)	0.0054(4)	⁵⁸ Ni 3675.24(3)	0.0281(7)	0.00145(4)
⁵⁹ Co 4350.40(12)	0.091(13)	0.0047(7)	⁵⁸ Ni 4858.59(3)	0.0442(10)	0.00228(5)
⁵⁹ Co 4370.46(19)	0.078(12)	0.0040(6)	⁵⁸ Ni 5312.674(24)	0.0536(13)	0.00277(7)
⁵⁹ Co 4377.29(19)	0.119(10)	0.0061(5)	⁵⁸ Ni 5435.77(4)	0.0188(6)	0.00097(3)
⁵⁹ Co 4395.62(11)	0.128(11)	0.0066(6)	⁶⁰ Ni 5695.80(3)	0.0416(12)	0.00215(6)
⁵⁹ Co 4547.05(11)	0.115(9)	0.0059(5)	⁵⁸ Ni 5817.219(20)	0.1090(22)	0.00563(11)
⁵⁹ Co 4607.00(7)	0.311(13)	0.0160(7)	⁶² Ni 5836.37(3)	0.0348(10)	0.00180(5)
⁵⁹ Co 4624.29(16)	0.104(8)	0.0053(4)	⁵⁸ Ni 5973.06(3)	0.0258(8)	0.00133(4)
⁵⁹ Co 4646.83(15)	0.081(10)	0.0042(5)	⁶⁴ Ni 6034.60(11)	0.013(3)	0.00067(15)
⁵⁹ Co 4666.15(10)	0.085(8)	0.0044(4)	⁵⁸ Ni 6105.215(22)	0.0706(17)	0.00365(9)
⁵⁹ Co 4706.11(13)	0.137(9)	0.0070(5)	⁶² Ni 6319.67(3)	0.0236(9)	0.00122(5)
⁵⁹ Co 4731.06(17)	0.089(8)	0.0046(4)	⁵⁸ Ni 6583.831(19)	0.0830(20)	0.00429(10)
⁵⁹ Co 4884.30(10)	0.237(10)	0.0122(5)	⁶² Ni 6837.50(3)	0.458(8)	0.0236(4)
⁵⁹ Co 4893.76(10)	0.217(11)	0.0112(6)	⁶⁰ Ni 7536.637(25)	0.190(4)	0.00981(21)
⁵⁹ Co 4906.17(7)	0.43(3)	0.0221(15)	⁵⁸ Ni 7697.163(18)	0.0374(14)	0.00193(7)
⁵⁹ Co 4921.85(9)	0.285(13)	0.0147(7)	⁶⁰ Ni 7819.517(21)	0.336(6)	0.0173(3)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Nickel (Z=28), continued			Copper (Z=29), continued		
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
⁵⁸ Ni 8120.567(16)	0.133(3)	0.00687(15)	⁶⁵ Cu 1743.30(7)	0.014(4)	0.00067(19)
⁵⁸ Ni 8533.509(17)	0.721(13)	0.0372(7)	⁶³ Cu 1852.57(8)	0.0141(10)	0.00067(5)
⁵⁸ Ni 8998.414(15)	1.49(3)	0.0769(15)	⁶³ Cu 2141.61(12)	0.0091(5)	0.000434(24)
Copper (Z=29), At. Wt.=63.546(3), $\sigma_f=3.795(17)$			⁶³ Cu 2153.51(5)	0.0105(11)	0.00050(5)
⁶⁵ Cu 89.08(4)	0.0970(17)	0.00463(8)	⁶³ Cu 2291.40(10)	0.0115(8)	0.00055(4)
⁶³ Cu 159.281(5)	0.648(10)	0.0309(5)	⁶³ Cu 2497.85(7)	0.0252(13)	0.00120(6)
⁶³ Cu 184.618(13)	0.0106(9)	0.00051(4)	⁶³ Cu 2932.30(13)	0.0101(7)	0.00048(3)
⁶⁵ Cu 185.96(4)	0.244(3)	0.01164(14)	⁶³ Cu 3152.95(16)	0.0099(9)	0.00047(4)
⁶³ Cu 202.950(8)	0.193(3)	0.00920(14)	⁶³ Cu 3315.5(3)	0.0097(7)	0.00046(3)
⁶³ Cu 212.389(15)	0.0362(9)	0.00173(4)	⁶³ Cu 3464.49(14)	0.0094(15)	0.00045(7)
⁶³ Cu 214.99(7)	0.0112(14)	0.00053(7)	⁶³ Cu 3588.50(9)	0.0122(14)	0.00058(7)
⁶⁵ Cu 237.80(4)	0.0230(4)	0.001097(19)	⁶³ Cu 3844.49(15)	0.0176(11)	0.00084(5)
⁶³ Cu 247.58(6)	0.0119(15)	0.00057(7)	⁶³ Cu 4089.19(14)	0.0090(5)	0.000429(24)
⁶³ Cu 261.33(8)	0.0095(14)	0.00045(7)	⁶³ Cu 4133.04(12)	0.0138(10)	0.00066(5)
⁶³ Cu 264.869(22)	0.0289(7)	0.00138(3)	⁶³ Cu 4204.26(19)	0.0091(5)	0.000434(24)
⁶³ Cu 278.250(14)	0.893(15)	0.0426(7)	⁶³ Cu 4286.55(15)	0.0121(6)	0.00058(3)
⁶⁵ Cu 315.69(4)	0.0250(4)	0.001192(19)	⁶³ Cu 4312.76(24)	0.0104(8)	0.00050(4)
⁶³ Cu 318.80(4)	0.0120(4)	0.000572(19)	⁶³ Cu 4319.92(9)	0.047(5)	0.00224(24)
⁶³ Cu 330.52(3)	0.0107(8)	0.00051(4)	⁶⁵ Cu 4384.92(9)	0.0206(12)	0.00098(6)
⁶³ Cu 343.898(14)	0.215(4)	0.01025(19)	⁶³ Cu 4404.91(18)	0.0111(5)	0.000529(24)
⁶³ Cu 376.80(3)	0.0250(6)	0.00119(3)	⁶³ Cu 4443.9(3)	0.0110(11)	0.00052(5)
⁶³ Cu 384.45(5)	0.0700(14)	0.00334(7)	⁶³ Cu 4475.88(13)	0.0171(6)	0.00082(3)
⁶⁵ Cu 385.77(3)	0.1310(18)	0.00625(9)	⁶³ Cu 4503.94(12)	0.0174(7)	0.00083(3)
⁶⁵ Cu 436.909(20)	0.0112(4)	0.000534(19)	⁶³ Cu 4563.20(7)	0.0112(5)	0.000534(24)
⁶³ Cu 449.486(22)	0.0382(10)	0.00182(5)	⁶³ Cu 4603.01(20)	0.0196(6)	0.00093(3)
⁶³ Cu 460.78(3)	0.0143(5)	0.000682(24)	⁶³ Cu 4658.55(9)	0.0278(7)	0.00133(3)
⁶⁵ Cu 465.14(3)	0.1350(21)	0.00644(10)	⁶³ Cu 5019.16(12)	0.0100(15)	0.00048(7)
⁶³ Cu 467.95(5)	0.0668(14)	0.00319(7)	⁶⁵ Cu 5042.68(6)	0.0346(14)	0.00165(7)
⁶³ Cu 494.81(5)	0.0242(6)	0.00115(3)	⁶⁵ Cu 5047.56(7)	0.0206(14)	0.00098(7)
⁶³ Cu 503.41(4)	0.0596(13)	0.00284(6)	⁶³ Cu 5085.54(11)	0.0118(5)	0.000563(24)
⁶³ Cu 533.25(11)	0.0148(8)	0.00071(4)	⁶³ Cu 5151.98(15)	0.0096(4)	0.000458(19)
⁶³ Cu 534.28(5)	0.021(6)	0.0010(3)	⁶³ Cu 5183.55(17)	0.0132(6)	0.00063(3)
⁶⁵ Cu 543.86(3)	0.0256(5)	0.001221(24)	⁶³ Cu 5189.81(11)	0.0241(7)	0.00115(3)
⁶³ Cu 579.75(3)	0.0898(15)	0.00428(7)	⁶⁵ Cu 5245.59(4)	0.043(3)	0.00205(14)
⁶³ Cu 608.766(23)	0.270(6)	0.0129(3)	⁶³ Cu 5258.73(7)	0.0372(9)	0.00177(4)
⁶³ Cu 617.47(6)	0.0270(4)	0.001288(19)	⁶⁵ Cu 5320.08(8)	0.0362(21)	0.00173(10)
⁶³ Cu 632.24(4)	0.0092(4)	0.000439(19)	⁶³ Cu 5408.64(17)	0.0144(6)	0.00069(3)
⁶³ Cu 648.80(3)	0.102(3)	0.00486(14)	⁶³ Cu 5418.45(5)	0.0668(12)	0.00319(6)
⁶³ Cu 662.69(4)	0.072(3)	0.00343(14)	⁶³ Cu 5555.38(19)	0.0098(5)	0.000467(24)
⁶³ Cu 739.03(3)	0.0096(3)	0.000458(14)	⁶³ Cu 5614.96(12)	0.0178(6)	0.00085(3)
⁶³ Cu 767.77(3)	0.0254(17)	0.00121(8)	⁶³ Cu 5636.11(7)	0.0147(5)	0.000701(24)
⁶⁵ Cu 822.673(24)	0.0238(17)	0.00114(8)	⁶³ Cu 5771.47(9)	0.0183(8)	0.00087(4)
⁶⁵ Cu 831.14(4)	0.0160(10)	0.00076(5)	⁶³ Cu 5823.60(20)	0.0108(22)	0.00052(10)
⁶³ Cu 878.17(5)	0.0421(20)	0.00201(10)	⁶³ Cu 6010.80(5)	0.0574(12)	0.00274(6)
⁶³ Cu 897.07(17)	0.0102(4)	0.000486(19)	⁶⁵ Cu 6048.73(5)	0.0101(6)	0.00048(3)
⁶³ Cu 927.05(3)	0.0119(3)	0.000568(14)	⁶³ Cu 6063.24(9)	0.0218(6)	0.00104(3)
⁶³ Cu 946.65(7)	0.0091(8)	0.00043(4)	⁶³ Cu 6166.7(3)	0.0133(21)	0.00063(10)
⁶³ Cu 962.76(4)	0.0152(9)	0.00072(4)	⁶⁵ Cu 6243.14(4)	0.0144(9)	0.00069(4)
⁶⁵ Cu 972.11(3)	0.0115(7)	0.00055(3)	⁶³ Cu 6321.58(6)	0.0130(5)	0.000620(24)
⁶⁵ Cu 997.63(3)	0.0093(11)	0.00044(5)	⁶³ Cu 6394.76(5)	0.0503(10)	0.00240(5)
⁶³ Cu 1019.59(4)	0.0141(12)	0.00067(6)	⁶³ Cu 6595.52(8)	0.0227(8)	0.00108(4)
⁶⁵ Cu 1038.97(3)d	0.0598(13)	0.00285[88%]	⁶⁵ Cu 6600.63(4)	0.085(5)	0.00405(24)
⁶⁵ Cu 1052.01(5)	0.0117(8)	0.00056(4)	⁶³ Cu 6617.66(5)	0.0407(11)	0.00194(5)
⁶³ Cu 1076.44(4)	0.0097(5)	0.000463(24)	⁶³ Cu 6673.15(9)	0.053(3)	0.00253(14)
⁶³ Cu 1081.72(3)	0.0117(3)	0.000558(14)	⁶³ Cu 6674.76(5)	0.0719(21)	0.00343(10)
⁶³ Cu 1138.82(3)	0.0296(10)	0.00141(5)	⁶⁵ Cu 6680.00(4)	0.081(6)	0.0039(3)
⁶³ Cu 1158.833(15)	0.0267(6)	0.00127(3)	⁶⁵ Cu 6790.72(4)	0.0155(10)	0.00074(5)
⁶³ Cu 1194.92(4)	0.0106(3)	0.000506(14)	⁶³ Cu 6988.68(5)	0.126(6)	0.0060(3)
⁶⁵ Cu 1212.53(4)	0.0105(5)	0.000501(24)	⁶³ Cu 7037.55(5)	0.0140(7)	0.00067(3)
⁶³ Cu 1231.98(4)	0.0110(3)	0.000525(14)	⁶⁵ Cu 7065.72(4)	0.0132(8)	0.00063(4)
⁶³ Cu 1241.52(9)	0.0345(16)	0.00165(8)	⁶³ Cu 7169.51(5)	0.0109(7)	0.00052(3)
⁶³ Cu 1242.61(9)	0.0181(22)	0.00086(10)	⁶³ Cu 7176.68(5)	0.0925(17)	0.00441(8)
⁶³ Cu 1298.10(3)	0.0147(7)	0.00070(3)	⁶³ Cu 7253.01(5)	0.1500(23)	0.00715(11)
⁶³ Cu 1320.25(8)	0.0263(10)	0.00125(5)	⁶³ Cu 7306.93(4)	0.321(17)	0.0153(8)
⁶⁵ Cu 1355.16(3)	0.0133(16)	0.00063(8)	⁶³ Cu 7571.77(4)	0.0629(12)	0.00300(6)
⁶³ Cu 1361.75(4)	0.0167(5)	0.000796(24)	⁶³ Cu 7637.40(4)	0.54(7)	0.026(3)
⁶³ Cu 1417.27(6)	0.0097(4)	0.000463(19)	⁶³ Cu 7756.36(4)	0.0571(12)	0.00272(6)
⁶³ Cu 1438.66(4)	0.013(6)	0.0006(3)	⁶³ Cu 7915.62(4)	0.869(20)	0.0414(10)
⁶⁵ Cu 1439.37(5)	0.0111(16)	0.00053(8)	Zinc (Z=30), At. Wt.=65.409(4), $\sigma_f=1.30(8)$		
⁶³ Cu 1521.03(4)	0.0143(5)	0.000682(24)	⁶⁴ Zn 53.972(17)	0.0109(6)	0.00051(3)
⁶⁵ Cu 1559.84(7)	0.0305(10)	0.00145(5)	⁶⁴ Zn 61.2530(20)	0.0290(9)	0.00134(4)
⁶⁵ Cu 1582.50(4)	0.0094(7)	0.00045(3)	⁶⁶ Zn 91.267(5)	0.0046(3)	2.13(14) $\times 10^{-4}$
⁶⁵ Cu 1637.46(5)	0.0135(15)	0.00064(7)	⁶⁶ Zn 93.311(5)	0.0344(8)	0.00159(4)
⁶³ Cu 1682.98(7)	0.0167(8)	0.00080(4)	⁶⁴ Zn 115.225(18)	0.167(3)	0.00774(14)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Gallium (Z=31), continued			Gallium (Z=31), continued		
⁷¹ Ga 384.17(5)	0.0058(6)	0.00025(3)	⁷¹ Ga 4686.8(5)	0.0066(9)	0.00029(4)
⁷¹ Ga 390.66(4)	0.0476(12)	0.00207(5)	⁷¹ Ga 4719.2(9)	0.0052(8)	2.3(4)×10 ⁻⁴
⁶⁹ Ga 393.26(3)	0.021(3)	0.00091(13)	⁷¹ Ga 4761.5(4)	0.0078(9)	0.00034(4)
⁷¹ Ga 393.28(3)	0.1340(23)	0.00582(10)	⁷¹ Ga 4792.6(3)	0.0207(17)	0.00090(7)
⁷¹ Ga 402.86(4)	0.0172(8)	0.00075(4)	⁷¹ Ga 4839.89(23)	0.040(3)	0.00174(13)
⁷¹ Ga 408.44(20)	0.0179(9)	0.00078(4)	⁷¹ Ga 4868.2(3)	0.0189(14)	0.00082(6)
⁷¹ Ga 411.07(14)	0.019(5)	0.00083(22)	⁷¹ Ga 4890.5(3)	0.0191(14)	0.00083(6)
⁷¹ Ga 411.13(4)	0.0384(11)	0.00167(5)	⁶⁹ Ga 4955.2(4)	0.0095(13)	0.00041(6)
⁷¹ Ga 439.26(6)	0.0154(7)	0.00067(3)	⁷¹ Ga 5054.0(4)	0.0094(11)	0.00041(5)
⁷¹ Ga 444.65(6)	0.021(5)	0.00091(22)	⁷¹ Ga 5091.8(9)	0.0070(9)	0.00030(4)
⁷¹ Ga 458.54(12)	0.0092(7)	0.00040(3)	⁶⁹ Ga 5133.6(6)	0.0051(11)	2.2(5)×10 ⁻⁴
⁷¹ Ga 488.81(4)	0.017(4)	0.00074(17)	⁷¹ Ga 5160.69(21)	0.0154(13)	0.00067(6)
⁷¹ Ga 488.81(4)	0.0227(8)	0.00099(4)	⁶⁹ Ga 5189.2(9)	0.0074(20)	0.00032(9)
⁶⁹ Ga 508.19(3)	0.349(6)	0.0152(3)	⁷¹ Ga 5195.1(5)	0.034(3)	0.00148(13)
⁶⁹ Ga 516.564(25)	0.012(4)	0.00052(17)	⁷¹ Ga 5223.3(7)	0.0157(13)	0.00068(6)
⁷¹ Ga 547.90(5)	0.0090(8)	0.00039(4)	⁷¹ Ga 5233.57(25)	0.0344(19)	0.00150(8)
⁶⁹ Ga 561.97(5)	0.0078(3)	0.000339(13)	⁷¹ Ga 5272.7(6)	0.0057(15)	2.5(7)×10 ⁻⁴
⁷¹ Ga 564.29(5)	0.0097(3)	0.000422(13)	⁷¹ Ga 5313.3(8)	0.0049(10)	2.1(4)×10 ⁻⁴
⁷¹ Ga 579.55(12)	0.0068(9)	0.00030(4)	⁶⁹ Ga 5334.13(18)	0.0271(18)	0.00118(8)
⁷¹ Ga 601.21(6)d	0.471(22)	0.0205[2.4%]	⁷¹ Ga 5334.9(5)	0.020(7)	0.0009(3)
⁷¹ Ga 603.24(4)	0.0155(7)	0.00067(3)	⁷¹ Ga 5340.45(25)	0.0406(21)	0.00176(9)
⁷¹ Ga 619.63(5)	0.0053(12)	2.3(5)×10 ⁻⁴	⁷¹ Ga 5390.2(5)	0.0049(10)	2.1(4)×10 ⁻⁴
⁷¹ Ga 620.23(14)	0.0052(11)	2.3(5)×10 ⁻⁴	⁷¹ Ga 5487.2(13)	0.0090(25)	0.00039(11)
⁷¹ Ga 629.96(5)d	0.490(22)	0.0213[2.4%]	⁶⁹ Ga 5488.31(17)	0.0296(19)	0.00129(8)
⁶⁹ Ga 632.34(4)	0.0183(7)	0.00080(3)	⁷¹ Ga 5497.6(5)	0.0091(13)	0.00040(6)
⁶⁹ Ga 651.09(3)	0.1030(22)	0.00448(10)	⁶⁹ Ga 5510.0(4)	0.0047(9)	2.0(4)×10 ⁻⁴
⁶⁹ Ga 690.943(24)	0.305(4)	0.01326(17)	⁷¹ Ga 5543.83(19)	0.0142(17)	0.00062(7)
⁷¹ Ga 786.17(16)d	0.160(22)	0.0070[2.4%]	⁷¹ Ga 5577.0(6)	0.0058(18)	0.00025(8)
⁷¹ Ga 834.08(3)d	1.65(5)	0.0717[2.4%]	⁷¹ Ga 5601.75(25)	0.063(4)	0.00274(17)
⁶⁹ Ga 851.34(7)	0.0127(9)	0.00055(4)	⁷¹ Ga 5625.35(24)	0.0077(16)	0.00033(7)
⁶⁹ Ga 868.3(3)	0.0071(15)	0.00031(7)	⁷¹ Ga 5644.8(7)	0.0065(21)	0.00028(9)
⁷¹ Ga 894.84(20)	0.0111(9)	0.00048(4)	⁷¹ Ga 5651.3(4)	0.0134(20)	0.00058(9)
⁷¹ Ga 894.91(11)d	0.35(3)	0.0152[2.4%]	⁷¹ Ga 5664.0(5)	0.0099(11)	0.00043(5)
⁶⁹ Ga 904.91(7)	0.0149(10)	0.00065(4)	⁷¹ Ga 5692.2(3)	0.0211(13)	0.00092(6)
⁷¹ Ga 976.37(13)	0.0101(8)	0.00044(4)	⁷¹ Ga 5721.1(13)	0.020(4)	0.00087(17)
⁶⁹ Ga 995.68(5)	0.0173(9)	0.00075(4)	⁶⁹ Ga 5722.9(3)	0.0067(25)	0.00029(11)
⁷¹ Ga 1002.71(25)	0.0073(8)	0.00032(4)	⁷¹ Ga 5779.11(18)	0.022(4)	0.00096(17)
⁶⁹ Ga 1010.34(6)	0.0146(8)	0.00063(4)	⁶⁹ Ga 5783.8(4)	0.0114(13)	0.00050(6)
⁶⁹ Ga 1014.99(8)	0.0077(7)	0.00033(3)	⁶⁹ Ga 5806.4(3)	0.0152(15)	0.00066(7)
⁶⁹ Ga 1044.90(15)	0.0107(11)	0.00047(5)	⁷¹ Ga 5883.55(19)	0.0096(4)	0.000417(17)
⁷¹ Ga 1050.69(5)d	0.119(13)	0.0052[2.4%]	⁷¹ Ga 5900.55(14)	0.0173(14)	0.00075(6)
⁷¹ Ga 1051.25(17)	0.0114(10)	0.00050(4)	⁷¹ Ga 5919.38(15)	0.0131(12)	0.00057(5)
⁷¹ Ga 1075.6(5)	0.0053(8)	2.3(4)×10 ⁻⁴	⁷¹ Ga 6007.25(14)	0.069(5)	0.00300(22)
⁶⁹ Ga 1140.37(4)	0.0422(16)	0.00183(7)	⁷¹ Ga 6111.72(24)	0.055(4)	0.00239(17)
⁷¹ Ga 1200.3(3)	0.0078(9)	0.00034(4)	⁷¹ Ga 6127.57(14)	0.0227(23)	0.00099(10)
⁶⁹ Ga 1203.40(6)	0.0286(14)	0.00124(6)	⁶⁹ Ga 6134.5(5)	0.0058(14)	0.00025(6)
⁷¹ Ga 1217.5(9)	0.0075(21)	0.00033(9)	⁷¹ Ga 6190.14(17)	0.0218(19)	0.00095(8)
⁷¹ Ga 1296.9(7)	0.0065(9)	0.00028(4)	⁶⁹ Ga 6238.6(4)	0.0067(10)	0.00029(4)
⁶⁹ Ga 1306.73(12)	0.0140(20)	0.00061(9)	⁷¹ Ga 6311.64(14)	0.0194(16)	0.00084(7)
⁶⁹ Ga 1311.89(6)	0.0259(12)	0.00113(5)	⁷¹ Ga 6322.20(14)	0.0186(16)	0.00081(7)
⁶⁹ Ga 1359.50(9)	0.0148(11)	0.00064(5)	⁶⁹ Ga 6346.4(3)	0.0140(15)	0.00061(7)
⁷¹ Ga 1359.53(17)	0.0148(11)	0.00064(5)	⁷¹ Ga 6358.61(14)	0.138(5)	0.00600(22)
⁶⁹ Ga 1456.39(7)	0.0168(11)	0.00073(5)	⁶⁹ Ga 6513.06(18)	0.0325(20)	0.00141(9)
⁷¹ Ga 1464.00(7)d	0.0609(19)	0.00265[2.4%]	⁷¹ Ga 6520.12(14)	0.017(3)	0.00074(13)
⁶⁹ Ga 1518.21(8)	0.0219(13)	0.00095(6)	⁶⁹ Ga 7002.30(16)	0.0203(12)	0.00088(5)
⁷¹ Ga 1532.91(17)	0.0172(12)	0.00075(5)	Germanium (Z=32), At. Wt.=72.64(1), σ_{γ}=2.30(6)		
⁷¹ Ga 1596.68(8)d	0.0732(16)	0.00318[2.4%]	⁷² Ge 68.750(17)	0.0201(7)	0.00084(3)
⁶⁹ Ga 1621.55(12)	0.0096(10)	0.00042(4)	⁷⁰ Ge 175.05(3)	0.164(4)	0.00684(17)
⁶⁹ Ga 1725.48(8)	0.0108(7)	0.00047(3)	⁷⁰ Ge 175.05(3)d	0.078(5)	0.00325[100%]
⁶⁹ Ga 1794.15(13)	0.0088(9)	0.00038(4)	⁷⁴ Ge 177.49(4)	0.0118(5)	0.000492(21)
⁶⁹ Ga 1846.5(3)	0.0053(10)	2.3(4)×10 ⁻⁴	⁷⁰ Ge 247.27(5)	0.0123(6)	0.000513(25)
⁷¹ Ga 1861.09(6)d	0.0904(19)	0.00393[2.4%]	⁷⁴ Ge 253.21(5)	0.0609(16)	0.00254(7)
⁶⁹ Ga 1866.6(5)	0.0060(17)	0.00026(7)	⁷² Ge 284.98(5)	0.0164(7)	0.00068(3)
⁶⁹ Ga 1907.63(13)	0.0089(11)	0.00039(5)	⁷² Ge 297.41(3)	0.0414(12)	0.00173(5)
⁶⁹ Ga 1930.5(3)	0.0058(11)	0.00025(5)	⁷⁰ Ge 306.18(4)	0.0136(8)	0.00057(3)
⁶⁹ Ga 2115.98(17)	0.0066(8)	0.00029(4)	⁷² Ge 325.74(3)	0.0649(18)	0.00271(8)
⁶⁹ Ga 2142.88(14)	0.0085(9)	0.00037(4)	⁷⁰ Ge 326.83(3)	0.058(5)	0.00242(21)
⁶⁹ Ga 2164.1(7)	0.0056(13)	2.4(6)×10 ⁻⁴	⁷⁰ Ge 391.43(4)	0.0253(10)	0.00106(4)
⁷¹ Ga 2201.91(13)d	0.52(4)	0.0226[2.4%]	⁷² Ge 430.34(5)	0.0161(7)	0.00067(3)
⁷¹ Ga 2491.6(3)d	0.17(4)	0.0074[2.4%]	⁷² Ge 432.86(5)	0.0125(6)	0.000521(25)
⁷¹ Ga 2507.40(12)d	0.28(4)	0.0122[2.4%]	⁷³ Ge 492.933(5)	0.133(3)	0.00555(13)
⁷¹ Ga 3034.6(4)d	0.15(3)	0.0065[2.4%]	⁷⁰ Ge 499.87(3)	0.162(6)	0.00676(25)
⁷¹ Ga 4543.3(5)	0.0104(11)	0.00045(5)	⁷³ Ge 516.19(4)	~0.02	~0.0008
⁷¹ Ga 4578.2(7)	0.0058(12)	0.00025(5)	⁷⁰ Ge 517.78(8)	0.0114(10)	0.00048(4)
⁷¹ Ga 4595.4(5)	0.0093(13)	0.00040(6)			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Germanium (Z=32), continued			Germanium (Z=32), continued		
⁷³ Ge 531.654(7)	0.0133(7)	0.00055(3)	⁷² Ge 6418.62(4)	0.0178(15)	0.00074(6)
⁷² Ge 541.77(4)	0.0154(6)	0.000642(25)	⁷⁰ Ge 6707.43(3)	0.0388(25)	0.00162(10)
⁷⁰ Ge 572.27(5)	0.018(4)	0.00075(17)	⁷² Ge 6716.00(4)	0.0160(15)	0.00067(6)
⁷⁴ Ge 574.91(3)	0.0306(12)	0.00128(5)	⁷³ Ge 6717.462(23)	0.020(5)	0.00083(21)
⁷³ Ge 595.851(5)	1.100(24)	0.0459(10)	⁷⁰ Ge 6915.69(3)	0.031(5)	0.00129(21)
⁷³ Ge 606.80(4)	0.015(12)	0.0006(5)	⁷³ Ge 7091.164(15)	0.0170(11)	0.00071(5)
⁷³ Ge 608.353(4)	0.250(6)	0.01043(25)	⁷³ Ge 7260.187(14)	0.0270(15)	0.00113(6)
⁷³ Ge 701.509(8)	0.0642(19)	0.00268(8)	⁷⁰ Ge 7415.510(23)	0.016(5)	0.00067(21)
⁷⁰ Ge 708.15(3)	0.0825(24)	0.00344(10)	⁷³ Ge 8030.317(13)	0.0117(9)	0.00049(4)
⁷³ Ge 770.211(8)	0.0135(8)	0.00056(3)	⁷³ Ge 8498.388(13)	0.0120(9)	0.00050(4)
⁷⁰ Ge 788.60(7)	0.014(3)	0.00058(13)	⁷³ Ge 8731.744(13)	0.0128(8)	0.00053(3)
⁷⁰ Ge 808.14(4)	0.030(5)	0.00125(21)	Arsenic (Z=33), At. Wt.=74.92160(2), $\sigma_{\gamma}=4.23(8)$		
⁷³ Ge 808.218(10)	0.0197(18)	0.00082(8)	⁷⁵ As 44.4250(10)	0.560(20)	0.0227(8)
⁷⁰ Ge 831.30(3)	0.0445(16)	0.00186(7)	⁷⁵ As 46.0980(10)	0.337(15)	0.0136(6)
⁷⁰ Ge 851.70(13)	0.012(7)	0.0005(3)	⁷⁵ As 74.8720(10)	0.12(3)	0.0049(12)
⁷³ Ge 867.899(5)	0.553(12)	0.0231(5)	⁷⁵ As 81.4110(20)	0.0107(15)	0.00043(6)
⁷³ Ge 878.130(19)	0.0112(8)	0.00047(3)	⁷⁵ As 83.2840(10)	0.0142(16)	0.00057(7)
⁷³ Ge 939.249(11)	0.0315(13)	0.00131(5)	⁷⁵ As 86.7880(10)	0.579(11)	0.0234(4)
⁷³ Ge 961.055(7)	0.129(4)	0.00538(17)	⁷⁵ As 91.3670(10)	0.0218(17)	0.00088(7)
⁷³ Ge 999.775(8)	0.0581(19)	0.00242(8)	⁷⁵ As 116.7550(10)	0.107(18)	0.0043(7)
⁷⁰ Ge 1095.42(5)	0.053(5)	0.00221(21)	⁷⁵ As 117.3320(10)	0.071(18)	0.0029(7)
⁷⁰ Ge 1098.62(5)	0.0165(10)	0.00069(4)	⁷⁵ As 118.680(3)	0.0140(10)	0.00057(4)
⁷³ Ge 1101.282(6)	0.134(3)	0.00559(13)	⁷⁵ As 120.2580(10)	0.402(8)	0.0163(3)
⁷³ Ge 1105.557(10)	0.0708(20)	0.00295(8)	⁷⁵ As 122.2470(10)	0.227(5)	0.00918(20)
⁷³ Ge 1131.360(8)	0.0487(15)	0.00203(6)	⁷⁵ As 127.5090(20)	0.096(3)	0.00388(12)
⁷⁰ Ge 1139.27(6)	0.0441(23)	0.00184(10)	⁷⁵ As 135.4110(10)	0.156(4)	0.00631(16)
⁷³ Ge 1150.441(22)	0.0127(8)	0.00053(3)	⁷⁵ As 136.3430(10)	0.031(3)	0.00125(12)
⁷³ Ge 1200.75(10)	-0.01	-0.0005	⁷⁵ As 137.0270(10)	0.0391(19)	0.00158(8)
⁷³ Ge 1200.89(18)	-0.01	-0.0005	⁷⁵ As 141.2150(20)	0.0625(21)	0.00253(9)
⁷³ Ge 1200.94(3)	-0.01	-0.0005	⁷⁵ As 142.4590(10)	0.0211(16)	0.00085(7)
⁷³ Ge 1204.199(6)	0.141(4)	0.00588(17)	⁷⁵ As 144.5480(10)	0.1000(22)	0.00404(9)
⁷³ Ge 1205.862(13)	0.0114(21)	0.00048(9)	⁷⁵ As 152.8430(20)	0.0114(13)	0.00046(5)
⁷³ Ge 1228.20(9)	0.0116(9)	0.00048(4)	⁷⁵ As 155.0830(10)	0.0423(19)	0.00171(8)
⁷⁶ Ge 1250.55(10)	0.0110(21)	0.00046(9)	⁷⁵ As 156.8900(20)	0.0136(18)	0.00055(7)
⁷² Ge 1251.30(7)	0.032(9)	0.0013(4)	⁷⁵ As 157.7450(10)	0.117(24)	0.0047(10)
⁷⁰ Ge 1298.61(6)	0.049(4)	0.00204(17)	⁷⁵ As 162.6820(10)	0.0257(19)	0.00104(8)
⁷³ Ge 1332.081(11)	0.0122(10)	0.00051(4)	⁷⁵ As 165.0490(10)	0.996(16)	0.0403(7)
⁷⁰ Ge 1378.73(6)	0.017(4)	0.00071(17)	⁷⁵ As 178.0190(10)	0.0979(23)	0.00396(9)
⁷³ Ge 1471.712(10)	0.083(3)	0.00346(13)	⁷⁵ As 178.831(3)	0.0169(11)	0.00068(4)
⁷³ Ge 1489.491(24)	0.0234(12)	0.00098(5)	⁷⁵ As 180.121(3)	0.0136(7)	0.00055(3)
⁷³ Ge 1509.719(11)	0.0422(17)	0.00176(7)	⁷⁵ As 180.2100(10)	0.0157(8)	0.00064(3)
⁷³ Ge 1513.41(8)	-0.01	-0.0005	⁷⁵ As 186.0720(10)	0.0285(17)	0.00115(7)
⁷³ Ge 1513.74(9)	-0.01	-0.0005	⁷⁵ As 186.734(3)	0.0103(6)	0.000417(24)
⁷³ Ge 1573.87(3)	0.0115(9)	0.00048(4)	⁷⁵ As 187.3130(20)	0.0152(8)	0.00061(3)
⁷³ Ge 1617.539(14)	0.0197(12)	0.00082(5)	⁷⁵ As 188.0620(10)	0.090(3)	0.00364(12)
⁷⁰ Ge 1631.1(3)	0.0189(13)	0.00079(5)	⁷⁵ As 191.2620(20)	0.0117(17)	0.00047(7)
⁷³ Ge 1631.83(7)	0.0175(12)	0.00073(5)	⁷⁵ As 193.273(3)	0.0119(15)	0.00048(6)
⁷³ Ge 1635.84(7)	0.0138(11)	0.00058(5)	⁷⁵ As 198.8550(10)	0.089(3)	0.00360(12)
⁷³ Ge 1640.749(12)	0.0128(10)	0.00053(4)	⁷⁵ As 200.446(3)	0.011(3)	0.00044(12)
⁷³ Ge 1712.780(20)	0.0129(9)	0.00054(4)	⁷⁵ As 201.1800(20)	0.0140(18)	0.00057(7)
⁷³ Ge 1755.86(3)	0.014(4)	0.00058(17)	⁷⁵ As 211.1470(10)	0.113(3)	0.00457(12)
⁷³ Ge 1940.422(12)	0.0382(16)	0.00159(7)	⁷⁵ As 220.3810(10)	0.0373(23)	0.00151(9)
⁷⁰ Ge 1964.98(5)	0.0112(11)	0.00047(5)	⁷⁵ As 221.5320(10)	0.0534(25)	0.00216(10)
⁷³ Ge 2014.478(24)	0.0127(12)	0.00053(5)	⁷⁵ As 224.004(4)	0.0126(12)	0.00051(5)
⁷³ Ge 2073.746(14)	0.0205(14)	0.00086(6)	⁷⁵ As 225.7020(10)	0.0803(24)	0.00325(10)
⁷³ Ge 4423.23(6)	0.014(3)	0.00058(13)	⁷⁵ As 235.8770(10)	0.181(4)	0.00732(16)
⁷³ Ge 4423.81(8)	0.014(4)	0.00058(17)	⁷⁵ As 238.9960(10)	0.023(10)	0.0009(4)
⁷⁴ Ge 4706.98(23)	0.0151(13)	0.00063(5)	⁷⁵ As 241.6580(10)	0.0262(13)	0.00106(5)
⁷⁰ Ge 4881.79(4)	0.017(3)	0.00071(13)	⁷⁵ As 246.2030(20)	0.0223(14)	0.00090(6)
⁷³ Ge 5165.56(5)	0.013(9)	0.0005(4)	⁷⁵ As 256.0350(10)	0.045(11)	0.0018(4)
⁷³ Ge 5361.77(6)	0.0111(12)	0.00046(5)	⁷⁵ As 263.8940(10)	0.18(4)	0.0073(16)
⁷⁰ Ge 5383.85(7)	0.0131(15)	0.00055(6)	⁷⁵ As 271.7540(10)	0.013(4)	0.00053(16)
⁷⁰ Ge 5450.69(5)	0.028(4)	0.00117(17)	⁷⁵ As 281.5750(10)	0.085(20)	0.0034(8)
⁷² Ge 5518.30(4)	0.0290(17)	0.00121(7)	⁷⁵ As 297.248(10)	0.010(4)	0.00040(16)
⁷² Ge 5650.80(6)	0.0115(12)	0.00048(5)	⁷⁵ As 297.5420(10)	0.055(3)	0.00222(12)
⁷² Ge 5740.07(10)	0.0151(15)	0.00063(6)	⁷⁵ As 300.4610(10)	0.051(3)	0.00206(12)
⁷⁰ Ge 5817.17(4)	0.028(3)	0.00117(13)	⁷⁵ As 301.654(7)	0.0109(24)	0.00044(10)
⁷⁰ Ge 6036.90(6)	0.045(3)	0.00188(13)	⁷⁵ As 306.639(9)	0.011(3)	0.00044(12)
⁷⁰ Ge 6117.02(7)	0.043(6)	0.00179(25)	⁷⁵ As 308.3190(10)	0.018(3)	0.00073(12)
⁷³ Ge 6199.96(5)	0.0120(13)	0.00050(5)	⁷⁵ As 311.004(5)	0.0161(25)	0.00065(10)
⁷⁴ Ge 6251.97(6)	0.0188(18)	0.00078(8)	⁷⁵ As 314.243(3)	0.031(3)	0.00125(12)
⁷³ Ge 6265.84(6)	0.015(4)	0.00063(17)	⁷⁵ As 322.572(4)	0.016(3)	0.00065(12)
⁷⁰ Ge 6276.35(6)	0.0214(21)	0.00089(9)	⁷⁵ As 326.9120(20)	0.015(3)	0.00061(12)
⁷⁰ Ge 6320.19(5)	0.0153(14)	0.00064(6)	⁷⁵ As 330.100(7)	0.023(3)	0.00093(12)
⁷² Ge 6390.29(5)	0.0299(19)	0.00125(8)			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Arsenic (Z=33), continued			Arsenic (Z=33), continued		
E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
⁷⁵ As 340.1560(20)	0.0413(21)	0.00167(9)	⁷⁵ As 5786.82(3)	0.026(4)	0.00105(16)
⁷⁵ As 352.3620(20)	0.071(3)	0.00287(12)	⁷⁵ As 5816.39(5)	0.0247(12)	0.00100(5)
⁷⁵ As 357.4070(10)	0.074(3)	0.00299(12)	⁷⁵ As 5834.21(7)	0.0210(11)	0.00085(4)
⁷⁵ As 360.3830(20)	0.0228(14)	0.00092(6)	⁷⁵ As 5854.92(13)	0.0218(16)	0.00088(7)
⁷⁵ As 363.9040(10)	0.059(3)	0.00239(12)	⁷⁵ As 5869.65(7)	0.015(4)	0.00061(16)
⁷⁵ As 378.976(3)	0.030(3)	0.00121(12)	⁷⁵ As 5877.68(6)	0.0276(14)	0.00112(6)
⁷⁵ As 379.3230(20)	0.0231(20)	0.00093(8)	⁷⁵ As 5884.72(3)	0.0504(24)	0.00204(10)
⁷⁵ As 384.002(5)	0.0186(18)	0.00075(7)	⁷⁵ As 5906.24(8)	0.0128(8)	0.00052(3)
⁷⁵ As 394.231(8)	0.0131(20)	0.00053(8)	⁷⁵ As 5931.22(9)	0.0143(9)	0.00058(4)
⁷⁵ As 399.3490(20)	0.0465(23)	0.00188(9)	⁷⁵ As 5942.97(9)	0.0119(7)	0.00048(3)
⁷⁵ As 402.7440(20)	0.061(3)	0.00247(12)	⁷⁵ As 5970.12(5)	0.0210(10)	0.00085(4)
⁷⁵ As 412.7930(20)	0.0117(12)	0.00047(5)	⁷⁵ As 5976.18(5)	0.0199(10)	0.00080(4)
⁷⁵ As 426.5750(10)	0.100(3)	0.00404(12)	⁷⁵ As 6006.34(5)	0.0297(15)	0.00120(6)
⁷⁵ As 428.187(3)	0.0130(14)	0.00053(6)	⁷⁵ As 6014.00(8)	0.0224(12)	0.00091(5)
⁷⁵ As 430.7920(20)	0.0134(12)	0.00054(5)	⁷⁵ As 6019.17(11)	0.0161(10)	0.00065(4)
⁷⁵ As 436.8030(10)	0.0113(12)	0.00046(5)	⁷⁵ As 6027.524(22)	0.020(3)	0.00081(12)
⁷⁵ As 460.7790(20)	0.0111(10)	0.00045(4)	⁷⁵ As 6059.483(22)	0.026(3)	0.00105(12)
⁷⁵ As 463.647(3)	0.0333(23)	0.00135(9)	⁷⁵ As 6142.79(3)	0.014(3)	0.00057(12)
⁷⁵ As 467.965(13)	0.0165(19)	0.00067(8)	⁷⁵ As 6171.99(9)	0.0105(6)	0.000425(24)
⁷⁵ As 471.0000(10)	0.203(5)	0.00821(20)	⁷⁵ As 6180.14(5)	0.0264(13)	0.00107(5)
⁷⁵ As 473.1540(10)	0.176(5)	0.00712(20)	⁷⁵ As 6203.57(4)	0.016(3)	0.00065(12)
⁷⁵ As 477.584(9)	0.0124(18)	0.00050(7)	⁷⁵ As 6223.06(3)	0.012(3)	0.00049(12)
⁷⁵ As 479.102(5)	0.0115(17)	0.00047(7)	⁷⁵ As 6231.24(4)	0.0413(19)	0.00167(8)
⁷⁵ As 480.137(6)	0.0126(18)	0.00051(7)	⁷⁵ As 6294.295(25)	0.064(6)	0.00259(24)
⁷⁵ As 487.393(4)	0.0139(20)	0.00056(8)	⁷⁵ As 6303.71(22)	0.024(4)	0.00097(16)
⁷⁵ As 494.105(7)	0.0100(17)	0.00040(7)	⁷⁵ As 6305.37(3)	0.085(4)	0.00344(16)
⁷⁵ As 506.4970(20)	0.0283(23)	0.00114(9)	⁷⁵ As 6342.976(15)	0.010(3)	0.00040(12)
⁷⁵ As 517.873(10)	0.024(3)	0.00097(12)	⁷⁵ As 6357.58(7)	0.0204(10)	0.00083(4)
⁷⁵ As 529.907(8)	0.0111(18)	0.00045(7)	⁷⁵ As 6370.124(9)	0.0274(13)	0.00111(5)
⁷⁵ As 550.460(3)	0.071(3)	0.00287(12)	⁷⁵ As 6388.768(10)	0.0329(18)	0.00133(7)
⁷⁵ As 554.937(24)	0.0230(24)	0.00093(10)	⁷⁵ As 6393.133(12)	0.032(4)	0.00129(16)
⁷⁵ As 559.10(5)d	2.00(10)	0.081[1.3%]	⁷⁵ As 6403.761(12)	0.022(3)	0.00089(12)
⁷⁵ As 565.547(7)	0.0463(25)	0.00187(10)	⁷⁵ As 6419.378(23)	0.031(4)	0.00125(16)
⁷⁵ As 582.291(5)	0.0115(15)	0.00047(6)	⁷⁵ As 6465.17(12)	0.0111(24)	0.00045(10)
⁷⁵ As 585.492(8)	0.0161(17)	0.00065(7)	⁷⁵ As 6526.051(13)	0.0123(7)	0.00050(3)
⁷⁵ As 624.685(6)	0.0225(20)	0.00091(8)	⁷⁵ As 6534.932(9)	0.0316(15)	0.00128(6)
⁷⁵ As 628.7440(10)	0.0116(17)	0.00047(7)	⁷⁵ As 6542.669(10)	0.0408(19)	0.00165(8)
⁷⁵ As 632.396(24)	0.0219(20)	0.00089(8)	⁷⁵ As 6583.556(10)	0.027(3)	0.00109(12)
⁷⁵ As 640.119(10)	0.0141(20)	0.00057(8)	⁷⁵ As 6587.038(13)	0.045(3)	0.00182(12)
⁷⁵ As 644.329(23)	0.015(3)	0.00061(12)	⁷⁵ As 6600.71(3)	0.0372(17)	0.00150(7)
⁷⁵ As 657.05(5)d	0.279(14)	0.0113[1.3%]	⁷⁵ As 6620.59(5)	0.0304(15)	0.00123(6)
⁷⁵ As 669.113(4)	0.0278(13)	0.00112(5)	⁷⁵ As 6659.378(9)	0.0227(11)	0.00092(4)
⁷⁵ As 687.103(8)	0.010(5)	0.00040(20)	⁷⁵ As 6691.241(9)	0.0246(12)	0.00100(5)
⁷⁵ As 687.618(7)	0.0126(15)	0.00051(6)	⁷⁵ As 6699.744(8)	0.0109(7)	0.00044(3)
⁷⁵ As 706.783(4)	0.0339(22)	0.00137(9)	⁷⁵ As 6718.514(11)	0.0101(6)	0.000409(24)
⁷⁵ As 725.909(24)	0.0118(18)	0.00048(7)	⁷⁵ As 6778.047(9)	0.0143(9)	0.00058(4)
⁷⁵ As 731.840(9)	0.0102(17)	0.00041(7)	⁷⁵ As 6784.456(9)	0.0133(25)	0.00054(10)
⁷⁵ As 822.346(23)	0.0303(22)	0.00123(9)	⁷⁵ As 6808.872(8)	0.160(8)	0.0065(3)
⁷⁵ As 848.593(9)	0.0282(21)	0.00114(9)	⁷⁵ As 6810.898(8)	0.56(3)	0.0227(12)
⁷⁵ As 859.76(22)	0.0210(21)	0.00085(9)	⁷⁵ As 6823.272(8)	0.0133(8)	0.00054(3)
⁷⁵ As 880.326(9)	0.0234(21)	0.00095(9)	⁷⁵ As 6828.896(9)	0.0161(9)	0.00065(4)
⁷⁵ As 941.116(13)	0.0194(19)	0.00078(8)	⁷⁵ As 6857.474(8)	0.0168(10)	0.00068(4)
⁷⁵ As 942.240(8)	0.0161(8)	0.00065(3)	⁷⁵ As 6881.302(8)	0.0162(9)	0.00066(4)
⁷⁵ As 944.229(8)	0.0146(19)	0.00059(8)	⁷⁵ As 6926.635(8)	0.061(4)	0.00247(16)
⁷⁵ As 1216.08(5)d	0.155(8)	0.0063[1.3%]	⁷⁵ As 6976.101(9)	0.0130(21)	0.00053(9)
⁷⁵ As 5527.02(12)	0.0112(7)	0.00045(3)	⁷⁵ As 7020.139(8)	0.104(7)	0.0042(3)
⁷⁵ As 5533.94(3)	0.151(7)	0.0061(3)	⁷⁵ As 7027.998(8)	0.0534(25)	0.00216(10)
⁷⁵ As 5540.51(15)	0.0131(9)	0.00053(4)	⁷⁵ As 7048.154(8)	0.0103(21)	0.00042(9)
⁷⁵ As 5546.04(8)	0.0181(11)	0.00073(4)	⁷⁵ As 7063.648(8)	0.045(3)	0.00182(12)
⁷⁵ As 5568.99(5)	0.0354(18)	0.00143(7)	⁷⁵ As 7163.396(8)	0.0181(9)	0.00073(4)
⁷⁵ As 5580.21(3)	0.019(3)	0.00077(12)	⁷⁵ As 7208.183(8)	0.0127(7)	0.00051(3)
⁷⁵ As 5601.37(7)	0.0138(8)	0.00056(3)	⁷⁵ As 7241.649(8)	0.0167(20)	0.00068(8)
⁷⁵ As 5612.9(4)	0.0103(21)	0.00042(9)	⁷⁵ As 7284.007(8)	0.036(3)	0.00146(12)
⁷⁵ As 5614.99(13)	0.015(3)	0.00061(12)			
⁷⁵ As 5629.53(7)	0.0181(11)	0.00073(4)	Selenium (Z=34), At. Wt.=78.96(3), $\sigma_{\gamma}=12.0(7)$		
⁷⁵ As 5645.75(8)	0.0119(7)	0.00048(3)	⁷⁶ Se 51.3610(10)	~0.03	~0.001
⁷⁵ As 5655.22(6)	0.0172(9)	0.00070(4)	⁷⁶ Se 87.8660(10)	0.210(4)	0.00806(15)
⁷⁵ As 5663.81(3)	0.019(4)	0.00077(16)	⁷⁴ Se 112.3880(10)	0.0317(15)	0.00122(6)
⁷⁵ As 5675.89(3)	0.026(4)	0.00105(16)	⁷⁶ Se 125.8440(10)	0.074(17)	0.0028(7)
⁷⁵ As 5684.20(4)	0.0414(19)	0.00167(8)	⁷⁶ Se 139.2270(10)	0.543(9)	0.0208(4)
⁷⁵ As 5690.54(3)	0.023(4)	0.00093(16)	⁷⁴ Se 141.3140(20)	0.0246(21)	0.00094(8)
⁷⁵ As 5698.05(3)	0.0479(22)	0.00194(9)	⁷⁶ Se 161.9220(10)d	0.855(23)	0.0328[99%]
⁷⁵ As 5723.39(7)	0.0160(9)	0.00065(4)	⁷⁶ Se 180.751(3)	0.0291(12)	0.00112(5)
⁷⁵ As 5757.22(3)	0.015(3)	0.00061(12)	⁷⁶ Se 200.4530(20)	0.233(9)	0.0089(4)
⁷⁵ As 5778.12(3)	0.0482(23)	0.00195(9)	⁷⁶ Se 231.4270(20)	0.105(3)	0.00403(12)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Selenium (Z=34), continued			Selenium (Z=34), continued		
⁷⁶ Se 238.9980(10)	2.06(3)	0.0791(12)	⁷⁶ Se 1578.621(7)	0.042(4)	0.00161(15)
⁷⁷ Se 248.43(8)	0.023(5)	0.00088(19)	⁷⁶ Se 1623.124(6)	0.063(5)	0.00242(19)
⁷⁶ Se 249.7880(10)	0.538(9)	0.0206(4)	⁷⁶ Se 1677.06(3)	0.023(4)	0.00088(15)
⁷⁶ Se 281.6400(20)	0.124(5)	0.00476(19)	⁷⁶ Se 1712.75(5)	0.023(3)	0.00088(12)
⁷⁴ Se 286.5710(20)	0.280(6)	0.01075(23)	⁷⁷ Se 1713.544(22)	0.163(8)	0.0063(3)
⁷⁴ Se 292.8430(20)	0.0297(21)	0.00114(8)	⁷⁶ Se 1714.739(10)	0.033(3)	0.00127(12)
⁷⁶ Se 297.2160(20)	0.337(7)	0.0129(3)	⁷⁷ Se 1721.43(8)	0.078(4)	0.00299(15)
⁷⁶ Se 303.7930(20)	0.052(3)	0.00200(12)	⁸⁰ Se 1724.88(18)	0.044(5)	0.00169(19)
⁷⁶ Se 331.2210(20)	0.0526(25)	0.00202(10)	⁷⁶ Se 1790.24(7)	0.036(4)	0.00138(15)
⁷⁶ Se 368.733(4)	0.026(3)	0.00100(12)	⁷⁶ Se 1847.93(5)	0.046(4)	0.00177(15)
⁷⁶ Se 378.9540(20)	0.022(3)	0.00084(12)	⁷⁶ Se 1872.21(5)	0.048(4)	0.00184(15)
⁷⁶ Se 384.9800(20)	0.032(5)	0.00123(19)	⁷⁷ Se 1923.32(10)	0.068(5)	0.00261(19)
⁷⁶ Se 390.8920(20)	0.029(4)	0.00111(15)	⁷⁶ Se 1963.15(7)	0.034(4)	0.00130(15)
⁷⁸ Se 432.12(14)	0.0227(15)	0.00087(6)	⁷⁶ Se 1980.40(5)	0.022(16)	0.0008(6)
⁷⁶ Se 439.4510(20)	0.319(8)	0.0122(3)	⁷⁷ Se 1995.871(6)	0.119(5)	0.00457(19)
⁸⁰ Se 467.81(10)	0.128(4)	0.00491(15)	⁷⁶ Se 2035.26(5)	0.043(5)	0.00165(19)
⁷⁶ Se 484.5440(20)	0.125(4)	0.00480(15)	⁷⁶ Se 2074.08(5)	0.033(20)	0.0013(8)
⁸⁰ Se 491.46(22)	0.022(3)	0.00084(12)	⁷⁶ Se 2142.65(8)	0.040(4)	0.00154(15)
⁷⁶ Se 504.7970(20)	0.024(5)	0.00092(19)	⁷⁶ Se 2212.02(9)	0.033(3)	0.00127(12)
⁷⁶ Se 518.1810(20)	0.273(7)	0.0105(3)	⁷⁶ Se 2249.88(12)	0.0221(21)	0.00085(8)
⁷⁶ Se 520.6370(20)	1.260(18)	0.0484(7)	⁷⁷ Se 2257.48(13)	0.022(3)	0.00084(12)
⁷⁷ Se 545.297(12)	0.0635(25)	0.00244(10)	⁷⁶ Se 2264.68(17)	0.031(4)	0.00119(15)
⁷⁶ Se 565.7300(20)	0.0398(23)	0.00153(9)	⁷⁷ Se 2284.36(6)	0.054(5)	0.00207(19)
⁷⁶ Se 568.0660(20)	0.103(8)	0.0040(3)	⁷⁷ Se 2319.4(4)	0.025(10)	0.0010(4)
⁷⁶ Se 569.185(4)	0.024(8)	0.0009(3)	⁷⁷ Se 2391.87(10)	0.043(4)	0.00165(15)
⁷⁶ Se 574.6420(20)	0.054(3)	0.00207(12)	⁷⁷ Se 2391.89(9)	0.038(7)	0.0015(3)
⁷⁶ Se 578.8550(20)	0.243(5)	0.00933(19)	⁷⁶ Se 2417.59(12)	0.024(17)	0.0009(7)
⁷⁶ Se 585.4320(20)	0.077(4)	0.00296(15)	⁷⁷ Se 2572.70(8)	0.025(4)	0.00096(15)
⁷⁶ Se 607.471(4)	0.027(5)	0.00104(19)	⁷⁶ Se 2590.77(5)	0.039(13)	0.0015(5)
⁷⁶ Se 610.3800(20)	0.0345(21)	0.00132(8)	⁷⁶ Se 2600.85(8)	0.0221(21)	0.00085(8)
⁷⁴ Se 610.7130(20)	0.0316(22)	0.00121(8)	⁷⁶ Se 2614.09(5)	0.047(5)	0.00180(19)
⁷⁷ Se 613.724(3)	2.14(5)	0.0821(19)	⁷⁶ Se 2674.47(6)	0.060(5)	0.00230(19)
⁷⁶ Se 645.8300(20)	0.099(3)	0.00380(12)	⁷⁶ Se 2749.78(15)	0.023(5)	0.00088(19)
⁷⁷ Se 687.251(5)	0.063(5)	0.00242(19)	⁷⁷ Se 2769.87(8)	0.035(3)	0.00134(12)
⁷⁷ Se 694.914(4)	0.443(10)	0.0170(4)	⁷⁶ Se 2809.08(7)	0.034(24)	0.0013(9)
⁷⁶ Se 707.9800(20)	0.0281(20)	0.00108(8)	⁷⁶ Se 2872.93(9)	0.046(3)	0.00177(12)
⁷⁶ Se 749.6060(20)	0.042(3)	0.00161(12)	⁷⁷ Se 2873.47(9)	0.061(8)	0.0023(3)
⁷⁶ Se 755.3920(20)	0.186(4)	0.00714(15)	⁷⁶ Se 2922.68(11)	0.0214(21)	0.00082(8)
⁷⁶ Se 817.8520(20)	0.174(5)	0.00668(19)	⁷⁶ Se 2982.82(11)	0.030(9)	0.0012(4)
⁷⁷ Se 828.188(12)	0.0300(17)	0.00115(7)	⁷⁶ Se 3039.95(11)	0.038(16)	0.0015(6)
⁷⁶ Se 881.840(4)	0.040(3)	0.00154(12)	⁷⁷ Se 3072.64(13)	0.0257(17)	0.00099(7)
⁷⁷ Se 884.867(7)	0.100(6)	0.00384(23)	⁷⁶ Se 3206.54(17)	0.027(14)	0.0010(5)
⁷⁶ Se 885.8270(20)	0.262(7)	0.0101(3)	⁷⁷ Se 3242.39(12)	0.033(7)	0.0013(3)
⁷⁷ Se 889.095(9)	0.096(6)	0.00368(23)	⁷⁶ Se 3279.09(12)	0.023(4)	0.00088(15)
⁷⁶ Se 889.108(4)	0.180(5)	0.00691(19)	⁷⁶ Se 3296.55(13)	0.028(4)	0.00107(15)
⁷⁶ Se 890.981(5)	0.083(4)	0.00319(15)	⁷⁷ Se 3385.13(12)	0.038(11)	0.0015(4)
⁷⁶ Se 946.9760(20)	0.089(4)	0.00342(15)	⁷⁷ Se 3439.40(13)	0.028(3)	0.00107(12)
⁷⁶ Se 951.809(6)	0.047(3)	0.00180(12)	⁷⁶ Se 3466.82(17)	0.022(4)	0.00084(15)
⁷⁶ Se 990.377(4)	0.028(3)	0.00107(12)	⁷⁶ Se 3517.60(17)	0.032(5)	0.00123(19)
⁷⁶ Se 991.629(6)	0.057(5)	0.00219(19)	⁷⁶ Se 3550.31(20)	0.042(17)	0.0016(7)
⁷⁶ Se 1005.1770(20)	0.117(5)	0.00449(19)	⁷⁶ Se 3620.46(17)	0.028(4)	0.00107(15)
⁷⁶ Se 1091.64(3)	0.026(5)	0.00100(19)	⁷⁶ Se 3636.29(17)	0.030(4)	0.00115(15)
⁷⁶ Se 1128.104(4)	0.023(4)	0.00088(15)	⁷⁶ Se 3693.06(20)	0.024(9)	0.0009(4)
⁷⁷ Se 1144.952(16)	0.076(3)	0.00292(12)	⁷⁶ Se 3700.14(12)	0.034(24)	0.0013(9)
⁷⁶ Se 1161.828(5)	0.079(4)	0.00303(15)	⁷⁶ Se 3858.09(11)	0.037(6)	0.00142(23)
⁷⁶ Se 1163.476(4)	0.087(4)	0.00334(15)	⁷⁶ Se 3866.33(10)	0.024(5)	0.00092(15)
⁷⁶ Se 1172.617(5)	0.058(3)	0.00223(12)	⁷⁶ Se 3873.00(12)	0.025(4)	0.00096(15)
⁷⁶ Se 1186.973(3)	0.033(3)	0.00127(12)	⁷⁶ Se 3901.06(17)	0.073(8)	0.0028(3)
⁷⁶ Se 1194.111(10)	0.022(3)	0.00084(12)	⁷⁶ Se 3945.94(17)	0.033(5)	0.00127(19)
⁷⁷ Se 1198.72(10)	0.0379(23)	0.00145(9)	⁷⁶ Se 3968.30(13)	0.040(4)	0.00154(15)
⁸⁰ Se 1202.0(3)	0.037(3)	0.00142(12)	⁷⁶ Se 4003.78(5)	0.025(4)	0.00096(15)
⁷⁷ Se 1240.206(12)	0.106(4)	0.00407(15)	⁷⁶ Se 4020.78(7)	0.0225(16)	0.00086(6)
⁷⁶ Se 1296.986(7)	0.240(7)	0.0092(3)	⁷⁶ Se 4056.54(11)	0.031(5)	0.00119(19)
⁷⁶ Se 1306.540(10)	0.061(6)	0.00234(23)	⁷⁶ Se 4064.52(11)	0.0229(14)	0.00088(5)
⁷⁷ Se 1308.632(5)	0.317(8)	0.0122(3)	⁷⁶ Se 4174.76(12)	0.037(7)	0.0014(3)
⁷⁷ Se 1338.817(12)	0.0354(19)	0.00136(7)	⁷⁶ Se 4185.94(13)	0.042(10)	0.0016(4)
⁷⁶ Se 1378.172(7)	0.048(4)	0.00184(15)	⁷⁶ Se 4243.49(13)	0.0220(13)	0.00084(5)
⁷⁷ Se 1382.159(6)	0.069(3)	0.00265(12)	⁷⁶ Se 4354.79(9)	0.040(5)	0.00154(19)
⁷⁶ Se 1384.131(6)	0.080(4)	0.00307(15)	⁷⁶ Se 4367.73(15)	0.024(3)	0.00092(12)
⁷⁶ Se 1395.42(3)	0.024(6)	0.00092(23)	⁷⁶ Se 4378.36(8)	0.085(16)	0.0033(6)
⁷⁶ Se 1402.471(4)	0.032(4)	0.00123(15)	⁷⁶ Se 4435.83(11)	0.032(7)	0.0012(3)
⁷⁶ Se 1411.612(5)	0.115(6)	0.00441(23)	⁷⁶ Se 4526.75(5)	0.115(8)	0.0044(3)
⁷⁶ Se 1475.746(10)	0.030(20)	0.0012(8)	⁷⁶ Se 4545.72(9)	0.049(5)	0.00188(19)
⁷⁶ Se 1529.27(15)	0.034(6)	0.00130(23)	⁷⁶ Se 4565.56(5)	0.156(11)	0.0060(4)
⁷⁷ Se 1529.71(5)	0.061(13)	0.0023(5)	⁷⁶ Se 4609.57(7)	0.058(9)	0.0022(4)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Selenium (Z=34), continued			Bromine (Z=35), continued		
E γ -keV	$\sigma(E\gamma)$ -barns	k ₀	E γ -keV	$\sigma(E\gamma)$ -barns	k ₀
⁷⁶ Se 4641.97(5)	0.027(6)	0.00104(23)	⁷⁹ Br 274.532(5)	0.158(3)	0.00599(11)
⁷⁶ Se 4702.43(15)	0.023(4)	0.00088(15)	⁷⁹ Br 278.186(3)	0.0238(14)	0.00090(5)
⁷⁶ Se 4926.78(7)	0.048(8)	0.0018(3)	⁸¹ Br 278.3620(20)	0.014(5)	0.00053(19)
⁷⁶ Se 4963.217(24)	0.039(5)	0.00150(19)	⁸¹ Br 287.7390(20)	0.253(4)	0.00960(15)
⁷⁶ Se 5025.80(5)	0.150(12)	0.0058(5)	⁷⁹ Br 294.349(3)	0.1160(22)	0.00440(8)
⁷⁶ Se 5078.75(5)	0.033(11)	0.0013(4)	⁷⁹ Br 296.908(4)	0.0307(15)	0.00116(6)
⁷⁶ Se 5098.56(10)	0.031(8)	0.0012(3)	⁷⁹ Br 299.886(4)	8.0×10 ⁻²	3.0×10 ⁻³
⁷⁶ Se 5154.33(7)	0.053(5)	0.00203(19)	⁷⁹ Br 303.02(5)	0.008(3)	0.00030(11)
⁷⁶ Se 5169.734(22)	0.031(4)	0.00119(15)	⁷⁹ Br 311.090(6)	0.0080(12)	0.00030(5)
⁷⁶ Se 5206.60(9)	0.045(5)	0.00173(19)	⁷⁹ Br 314.982(3)	0.460(9)	0.0174(3)
⁷⁶ Se 5275.98(9)	0.024(9)	0.0009(4)	⁷⁹ Br 315.524(17)	0.030(8)	0.0011(3)
⁷⁶ Se 5600.995(21)	0.301(14)	0.0116(5)	⁸¹ Br 315.770(5)	0.022(8)	0.0008(3)
⁷⁶ Se 5703.864(23)	0.029(5)	0.00111(19)	⁸¹ Br 316.8510(20)	0.017(5)	0.00064(19)
⁷⁶ Se 5795.473(21)	0.127(16)	0.0049(6)	⁷⁹ Br 321.937(8)	0.0262(18)	0.00099(7)
⁷⁷ Se 5813.24(10)	0.0269(13)	0.00103(5)	⁷⁹ Br 329.551(4)	0.0213(16)	0.00081(6)
⁷⁶ Se 6006.973(21)	0.289(20)	0.0111(8)	⁸¹ Br 339.881(3)	0.0134(14)	0.00051(5)
⁷⁶ Se 6016.113(21)	0.101(10)	0.0039(4)	⁷⁹ Br 343.405(3)	0.118(4)	0.00448(15)
⁷⁷ Se 6049.20(13)	0.0291(13)	0.00112(5)	⁸¹ Br 345.0060(10)	0.154(4)	0.00584(15)
⁷⁶ Se 6231.597(21)	0.10(4)	0.0038(15)	⁷⁹ Br 345.580(4)	0.023(4)	0.00087(15)
⁸⁰ Se 6232.9(5)	0.10(3)	0.0038(12)	⁸¹ Br 346.986(4)	0.0122(18)	0.00046(7)
⁷⁷ Se 6244.07(13)	0.043(3)	0.00165(12)	⁸¹ Br 350.3830(20)	0.0188(15)	0.00071(6)
⁷⁷ Se 6315.30(9)	0.044(3)	0.00169(12)	⁷⁹ Br 366.604(4)	0.233(6)	0.00884(23)
⁷⁶ Se 6413.379(21)	0.192(15)	0.0074(6)	⁷⁹ Br 370.530(5)	0.0171(19)	0.00065(7)
⁷⁶ Se 6498.52(12)	0.047(4)	0.00180(15)	⁷⁹ Br 370.531(3)	0.0171(9)	0.00065(3)
⁷⁶ Se 6600.690(21)	0.623(20)	0.0239(8)	⁷⁹ Br 373.44(5)	0.0140(19)	0.00053(7)
⁷⁷ Se 6811.00(13)	0.0257(22)	0.00099(8)	⁸¹ Br 374.1180(10)	0.011(3)	0.00042(11)
⁷⁷ Se 6905.75(8)	0.0234(22)	0.00090(8)	⁷⁹ Br 377.397(14)	0.0100(19)	0.00038(7)
⁷⁷ Se 7113.76(8)	0.037(3)	0.00142(12)	⁸¹ Br 379.988(12)	0.0190(11)	0.00072(4)
⁷⁶ Se 7179.492(21)	0.261(25)	0.0100(10)	⁷⁹ Br 385.598(11)	0.0232(9)	0.00088(3)
⁷⁷ Se 7209.15(6)	0.056(3)	0.00215(12)	⁷⁹ Br 389.189(4)	0.0486(13)	0.00184(5)
⁷⁶ Se 7418.467(21)	0.350(13)	0.0134(5)	⁸¹ Br 397.147(3)	0.0125(18)	0.00047(7)
⁷⁷ Se 7491.71(9)	0.0295(15)	0.00113(6)	⁸¹ Br 400.906(20)	0.0234(16)	0.00089(6)
⁷⁴ Se 7734.052(18)	0.13(6)	0.0050(23)	⁸¹ Br 402.743(3)	0.0170(16)	0.00064(6)
⁷⁷ Se 8162.11(9)	0.058(3)	0.00223(12)	⁷⁹ Br 408.55(8)	0.0116(20)	0.00044(8)
⁷⁷ Se 8170.00(4)	0.054(4)	0.00207(15)	⁷⁹ Br 409.002(6)	0.0150(20)	0.00057(8)
⁷⁷ Se 8501.35(3)	0.048(3)	0.00184(12)	⁷⁹ Br 414.04(7)	0.0332(17)	0.00126(6)
⁷⁷ Se 9188.52(3)	0.150(8)	0.0058(3)	⁷⁹ Br 432.216(4)	0.0783(14)	0.00297(5)
⁷⁷ Se 9883.35(3)	0.220(22)	0.0084(8)	⁷⁹ Br 450.906(5)	0.0170(13)	0.00064(5)
⁷⁷ Se 10496.99(3)	0.0221(25)	0.00085(10)	⁷⁹ Br 452.611(5)	0.0679(24)	0.00258(9)
Bromine (Z=35), At. Wt.=79.904(1), $\sigma_v=6.39(7)$			⁷⁹ Br 455.830(3)	0.0230(13)	0.00087(5)
⁸¹ Br 29.1130(10)	0.1680(20)	0.00637(8)	⁷⁹ Br 459.775(4)	0.0455(19)	0.00173(7)
⁷⁹ Br 37.0520(20)d	0.428(12)	0.0162[7.5%]	⁸¹ Br 465.89(3)	0.026(4)	0.00099(15)
⁷⁹ Br 37.054(3)	0.160(10)	0.0061(4)	⁸¹ Br 466.63(3)	0.008(4)	0.00030(15)
⁷⁹ Br 50.112(3)	0.0081(6)	0.000307(23)	⁷⁹ Br 468.980(3)	0.29(3)	0.0110(11)
⁷⁹ Br 59.471(4)	0.202(5)	0.00766(19)	⁷⁹ Br 470.619(16)	0.018(3)	0.00068(11)
⁸¹ Br 72.0210(20)	0.0121(4)	0.000459(15)	⁷⁹ Br 479.082(10)	0.018(9)	0.0007(3)
⁷⁹ Br 74.972(3)	0.0323(7)	0.00123(3)	⁷⁹ Br 482.813(21)	0.0120(20)	0.00046(8)
⁸¹ Br 85.267(7)	0.0096(4)	0.000364(15)	⁸¹ Br 483.886(3)	0.042(18)	0.0016(7)
⁷⁹ Br 124.028(3)	0.0268(5)	0.001016(19)	⁷⁹ Br 492.884(4)	0.0292(10)	0.00111(4)
⁷⁹ Br 126.280(3)	0.0174(4)	0.000660(15)	⁷⁹ Br 494.045(7)	0.009(5)	0.00034(19)
⁷⁹ Br 146.904(3)	0.0184(7)	0.00070(3)	⁸¹ Br 495.0380(20)	0.0342(14)	0.00130(5)
⁷⁹ Br 159.044(4)	0.0171(7)	0.00065(3)	⁷⁹ Br 498.19(3)	0.0336(13)	0.00127(5)
⁷⁹ Br 159.800(4)	0.0232(7)	0.00088(3)	⁸¹ Br 512.488(20)	0.21(3)	0.0080(11)
⁷⁹ Br 175.084(3)	0.0173(12)	0.00066(5)	⁷⁹ Br 529.247(7)	0.0321(9)	0.00122(3)
⁸¹ Br 184.6440(10)	0.0258(12)	0.00098(5)	⁸¹ Br 538.219(20)	0.0109(10)	0.00041(4)
⁷⁹ Br 195.602(4)	0.434(14)	0.0165(5)	⁸¹ Br 541.856(9)	0.0151(23)	0.00057(9)
⁷⁹ Br 197.607(3)	0.0175(11)	0.00066(4)	⁷⁹ Br 542.515(6)	0.114(5)	0.00432(19)
⁷⁹ Br 211.594(3)	0.0454(21)	0.00172(8)	⁷⁹ Br 545.667(7)	0.0094(14)	0.00036(5)
⁷⁹ Br 213.816(5)	0.0104(11)	0.00039(4)	⁷⁹ Br 549.559(3)	0.0593(14)	0.00225(5)
⁷⁹ Br 218.785(4)	0.019(8)	0.0007(3)	⁸¹ Br 552.1730(20)	0.0161(11)	0.00061(4)
⁷⁹ Br 219.377(3)	0.399(14)	0.0151(5)	⁸¹ Br 554.3480(20)d	0.838(8)	0.0318(3)
⁸¹ Br 221.0950(20)	0.0123(14)	0.00047(5)	⁷⁹ Br 557.257(21)	0.0315(23)	0.00119(9)
⁷⁹ Br 223.627(3)	0.153(5)	0.00580(19)	⁸¹ Br 566.0990(20)	0.0551(12)	0.00209(5)
⁷⁹ Br 226.53(5)	0.0080(20)	0.00030(8)	⁸¹ Br 581.2860(20)	0.0231(11)	0.00088(4)
⁷⁹ Br 234.320(3)	0.205(10)	0.0078(4)	⁸¹ Br 595.2120(20)	0.0177(11)	0.00067(4)
⁷⁹ Br 236.454(3)	0.0372(23)	0.00141(9)	⁸¹ Br 599.27(3)	0.0124(9)	0.00047(3)
⁷⁹ Br 244.237(3)	0.45(3)	0.0171(11)	⁷⁹ Br 604.61(5)	0.013(5)	0.00049(19)
⁸¹ Br 244.8310(10)	0.15(5)	0.0057(19)	⁸¹ Br 608.115(19)	0.0438(13)	0.00166(5)
⁷⁹ Br 245.203(4)	0.80(3)	0.0303(11)	⁷⁹ Br 616.3(5)d	0.39(4)	0.0148[62%]
⁸¹ Br 245.54(3)	0.018(4)	0.00068(15)	⁸¹ Br 619.106(4)d	0.515(5)	0.01953(19)
⁸¹ Br 250.2080(20)	0.0145(19)	0.00055(7)	⁷⁹ Br 619.17(3)	0.0308(12)	0.00117(5)
⁷⁹ Br 263.460(8)	0.0105(25)	0.00040(10)	⁷⁹ Br 630.710(12)	0.0224(13)	0.00085(5)
⁸¹ Br 264.4350(10)	0.035(3)	0.00133(11)	⁷⁹ Br 636.681(8)	0.018(4)	0.00068(15)
⁷⁹ Br 271.374(3)	0.462(7)	0.0175(3)	⁸¹ Br 643.291(6)	0.0373(20)	0.00141(8)
			⁷⁹ Br 660.561(4)	0.082(3)	0.00311(11)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Bromine ($Z=35$), continued			Bromine ($Z=35$), continued		
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
⁷⁹ Br 678.69(4)	0.0089(19)	0.00034(7)	⁷⁹ Br 7031.43(8)	0.0447(22)	0.00170(8)
⁸¹ Br 684.885(3)	0.050(3)	0.00190(11)	⁷⁹ Br 7078.18(8)	0.0566(24)	0.00215(9)
⁷⁹ Br 684.94(5)	0.0120(20)	0.00046(8)	⁷⁹ Br 7126.18(8)	0.0154(15)	0.00058(6)
⁷⁹ Br 686.930(5)	0.014(3)	0.00053(11)	⁷⁹ Br 7168.08(8)	0.0103(8)	0.00039(3)
⁸¹ Br 687.02(8)	0.0157(20)	0.00060(8)	⁸¹ Br 7172.612(22)	0.0238(12)	0.00090(5)
⁷⁹ Br 689.994(16)	0.083(4)	0.00315(15)	⁸¹ Br 7229.873(22)	0.0250(14)	0.00095(5)
⁸¹ Br 698.374(5)d	0.337(3)	0.01278(12)	⁸¹ Br 7301.888(22)	0.0101(8)	0.00038(3)
⁷⁹ Br 702.025(9)	0.0648(14)	0.00246(5)	⁷⁹ Br 7422.77(8)	0.0495(18)	0.00188(7)
⁸¹ Br 716.14(8)	0.0420(23)	0.00159(9)	⁷⁹ Br 7511.57(8)	0.0108(9)	0.00041(3)
⁸¹ Br 717.756(20)	0.0373(8)	0.00141(3)	⁷⁹ Br 7577.04(8)	0.108(3)	0.00410(11)
⁷⁹ Br 721.417(12)	0.026(6)	0.00099(23)	⁷⁹ Br 7610.73(8)	0.0093(8)	0.00035(3)
⁷⁹ Br 723.983(5)	0.019(3)	0.00072(11)			
⁷⁹ Br 731.147(4)	0.0139(6)	0.000527(23)			
⁸¹ Br 746.970(23)	0.0091(14)	0.00035(5)	Krypton ($Z=36$), At. Wt.=83.798(2), $\sigma_\gamma=25.8(12)$		
⁷⁹ Br 751.014(10)	0.029(3)	0.00110(11)	⁸² Kr 9.4050(10)d	0.122(24)	0.0044[17%]
⁷⁹ Br 755.728(11)	0.0126(17)	0.00048(6)	⁸³ Kr 367.7(5)	0.532(10)	0.0192(4)
⁷⁹ Br 765.957(10)	0.0537(16)	0.00204(6)	⁸³ Kr 419.4(5)	0.630(10)	0.0228(4)
⁸¹ Br 776.517(3)d	0.990(10)	0.0375(4)	⁸³ Kr 425.30(11)	2.960(19)	0.1070(7)
⁷⁹ Br 809.28(3)	0.0084(22)	0.00032(8)	⁸³ Kr 448.11(11)	0.590(19)	0.0213(7)
⁸¹ Br 816.578(20)	0.0191(15)	0.00072(6)	⁸³ Kr 541.50(12)	0.295(12)	0.0107(4)
⁷⁹ Br 827.31(4)	0.015(3)	0.00057(11)	⁸³ Kr 546.98(12)	0.328(12)	0.0119(4)
⁸¹ Br 827.828(6)d	0.285(3)	0.01081(11)	⁸³ Kr 605.5(4)	0.398(25)	0.0144(9)
⁷⁹ Br 830.856(14)	0.0413(12)	0.00157(5)	⁸³ Kr 612.0(3)	0.42(3)	0.0152(11)
⁷⁹ Br 845.70(3)	0.0257(21)	0.00097(8)	⁸³ Kr 637.13(18)	0.251(22)	0.0091(8)
⁷⁹ Br 850.93(4)	0.0082(14)	0.00031(5)	⁸³ Kr 708.24(21)	0.220(21)	0.0080(8)
⁸¹ Br 856.13(3)	0.0081(11)	0.00031(4)	⁸³ Kr 737.0(9)	0.31(6)	0.0112(22)
⁷⁹ Br 860.488(18)	0.0450(19)	0.00171(7)	⁸³ Kr 802.62(8)	1.520(22)	0.0550(8)
⁷⁹ Br 876.59(4)	0.0111(7)	0.00042(3)	⁸³ Kr 881.74(11)	20.8(3)	0.752(11)
⁷⁹ Br 883.60(6)	0.0278(10)	0.00105(4)	⁸³ Kr 919.79(19)	0.222(17)	0.0080(6)
⁸¹ Br 888.599(20)	0.0224(15)	0.00085(6)	⁸³ Kr 938.12(13)	0.449(21)	0.0162(8)
⁷⁹ Br 889.949(11)	0.0128(17)	0.00049(6)	⁸³ Kr 943.36(14)	0.713(8)	0.0258(3)
⁸¹ Br 895.87(5)	0.0213(10)	0.00081(4)	⁸³ Kr 946.5(5)	0.447(19)	0.0162(7)
⁷⁹ Br 908.97(9)	0.0144(9)	0.00055(3)	⁸³ Kr 963.44(13)	0.660(22)	0.0239(8)
⁸¹ Br 910.73(3)	0.0400(12)	0.00152(5)	⁸³ Kr 987.69(19)	0.256(25)	0.0093(9)
⁷⁹ Br 914.574(7)	0.0508(14)	0.00193(5)	⁸³ Kr 1016.2(3)	1.08(7)	0.0391(25)
⁷⁹ Br 919.36(5)	0.016(3)	0.00061(11)	⁸³ Kr 1077.55(25)	0.47(3)	0.0170(11)
⁸¹ Br 932.794(25)	0.0216(10)	0.00082(4)	⁸³ Kr 1124.44(6)	1.420(21)	0.0514(8)
⁷⁹ Br 933.823(12)	0.010(3)	0.00038(11)	⁸³ Kr 1213.42(12)	8.28(17)	0.299(6)
⁷⁹ Br 952.58(9)	0.0182(8)	0.00069(3)	⁸³ Kr 1230.82(11)	0.310(12)	0.0112(4)
⁸¹ Br 976.508(24)	0.0459(13)	0.00174(5)	⁸³ Kr 1293.20(13)	0.383(25)	0.0139(9)
⁷⁹ Br 977.431(12)	0.013(3)	0.00049(11)	⁸³ Kr 1331.89(13)	0.39(6)	0.0141(22)
⁸¹ Br 1013.03(3)	0.023(3)	0.00087(11)	⁸³ Kr 1443.43(11)	0.237(10)	0.0086(4)
⁷⁹ Br 1022.385(10)	0.0167(14)	0.00063(5)	⁸³ Kr 1463.86(6)	7.10(8)	0.257(3)
⁸¹ Br 1034.706(23)	0.0231(9)	0.00088(3)	⁸⁶ Kr 1475.94(17)	2.4(4)×10 ⁻⁴	8.7(14)×10 ⁻⁶
⁸¹ Br 1036.890(9)	0.0081(7)	0.00031(3)	⁸³ Kr 1543.27(19)	0.486(17)	0.0176(6)
⁸¹ Br 1044.002(5)d	0.323(3)	0.01225(12)	⁸³ Kr 1623.20(20)	0.327(15)	0.0118(5)
⁸¹ Br 1079.99(5)	0.0350(19)	0.00133(7)	⁸³ Kr 1656.15(18)	0.28(5)	0.0101(18)
⁷⁹ Br 1087.46(3)	0.0092(10)	0.00035(4)	⁸³ Kr 1682.0(3)	0.212(17)	0.0077(6)
⁸¹ Br 1133.427(20)	0.0110(15)	0.00042(6)	⁸³ Kr 1741.7(3)	0.437(19)	0.0158(7)
⁷⁹ Br 1143.370(21)	0.0225(18)	0.00085(7)	⁸³ Kr 1897.79(8)	2.24(3)	0.0810(11)
⁷⁹ Br 1147.96(4)	0.0205(17)	0.00078(6)	⁸³ Kr 1979.34(11)	1.070(22)	0.0387(8)
⁸¹ Br 1157.506(25)	0.0210(17)	0.00080(6)	⁸³ Kr 2160.48(7)	0.577(15)	0.0209(5)
⁷⁹ Br 1175.25(3)	0.0116(11)	0.00044(4)	⁸³ Kr 2200.86(11)	0.241(10)	0.0087(4)
⁷⁹ Br 1190.73(5)	0.0216(10)	0.00082(4)	⁸³ Kr 2544.72(19)	0.27(3)	0.0098(11)
⁸¹ Br 1201.13(3)	0.0185(8)	0.00070(3)	⁸³ Kr 6281.4(7)	2.7×10 ⁻¹	9.8×10 ⁻³
⁷⁹ Br 1248.801(12)	0.0527(22)	0.00200(8)	⁸³ Kr 6306.8(7)	4.8×10 ⁻¹	1.7×10 ⁻²
⁸¹ Br 1317.473(10)d	0.314(3)	0.01191(12)	⁸³ Kr 6519.1(7)	8.8×10 ⁻¹	3.2×10 ⁻²
⁷⁹ Br 1320.19(4)	0.012(5)	0.00046(19)	⁸³ Kr 6803.5(8)	6.4×10 ⁻¹	2.3×10 ⁻²
⁷⁹ Br 1321.96(11)	0.0152(14)	0.00058(5)	⁸³ Kr 6880.7(7)	1.3×10 ⁺⁰⁰	4.7×10 ⁻²
⁸¹ Br 1474.880(10)d	0.1930(20)	0.00732(8)	⁸³ Kr 6931.7(8)	5.4×10 ⁻¹	2.0×10 ⁻²
⁸¹ Br 6349.19(4)	0.0168(12)	0.00064(5)	⁸³ Kr 7207.5(9)	2.5×10 ⁻¹	9.0×10 ⁻³
⁸¹ Br 6360.18(3)	0.015(5)	0.00057(19)			
⁸¹ Br 6413.36(3)	0.0136(11)	0.00052(4)	Rubidium ($Z=37$), At. Wt.=85.4678(3), $\sigma_\gamma=0.38(7)$		
⁸¹ Br 6437.69(5)	0.0328(17)	0.00124(6)	⁸⁵ Rb 54.01(6)	0.006(3)	2.1(11)×10 ⁻⁴
⁷⁹ Br 6533.28(8)	0.0196(14)	0.00074(5)	⁸⁵ Rb 59.75(6)	0.010(4)	0.00035(14)
⁷⁹ Br 6570.15(13)	0.0285(13)	0.00108(5)	⁸⁵ Rb 84.85(8)	0.0052(22)	1.8(8)×10 ⁻⁴
⁸¹ Br 6570.27(3)	0.008(3)	0.00030(11)	⁸⁵ Rb 96.87(10)	0.0026(9)	9(3)×10 ⁻⁵
⁸¹ Br 6621.81(3)	0.0104(22)	0.00039(8)	⁸⁵ Rb 113.76(4)	0.00535(14)	1.90(5)×10 ⁻⁴
⁷⁹ Br 6643.30(8)	0.0318(18)	0.00121(7)	⁸⁵ Rb 119.94(4)	0.00267(9)	9.5(3)×10 ⁻⁵
⁷⁹ Br 6668.16(11)	0.0306(18)	0.00116(7)	⁸⁷ Rb 166.01(3)	0.00215(8)	7.6(3)×10 ⁻⁵
⁷⁹ Br 6689.13(9)	0.0321(14)	0.00122(5)	⁸⁵ Rb 176.2(9)	0.0031(13)	1.1(5)×10 ⁻⁴
⁷⁹ Br 6701.38(9)	0.0168(10)	0.00064(4)	⁸⁷ Rb 196.34(3)	0.00964(19)	0.000342(7)
⁸¹ Br 6746.030(22)	0.0386(16)	0.00146(6)	⁸⁵ Rb 198.96(10)	0.00266(9)	9.4(3)×10 ⁻⁵
⁷⁹ Br 6894.78(8)	0.0101(7)	0.00038(3)	⁸⁵ Rb 224.31(6)	0.00132(7)	4.68(25)×10 ⁻⁵
⁷⁹ Br 6977.51(8)	0.0110(8)	0.00042(3)	⁸⁷ Rb 240.76(3)	0.00224(8)	7.9(3)×10 ⁻⁵
			⁸⁵ Rb 283.80(8)	0.00092(6)	3.26(21)×10 ⁻⁵

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Niobium (Z=41), continued			Niobium (Z=41), continued		
E γ -keV	$\sigma(E\gamma)$ -barns	k ₀	E γ -keV	$\sigma(E\gamma)$ -barns	k ₀
⁹³ Nb 4455.30(10)	0.0027(3)	8.8(10)×10 ⁻⁵	⁹³ Nb 6831.141(14)	0.0175(8)	0.00057(3)
⁹³ Nb 4459.03(11)	0.0030(6)	9.8(20)×10 ⁻⁵	⁹³ Nb 6915.546(15)	0.0024(3)	7.8(10)×10 ⁻⁵
⁹³ Nb 4466.50(10)	0.0028(3)	9.1(10)×10 ⁻⁵	⁹³ Nb 7186.449(14)	0.0089(6)	0.000290(20)
⁹³ Nb 4470.69(11)	0.0033(7)	1.08(23)×10 ⁻⁴	Molybdenum (Z=42), At.Wt.=95.94(2), $\sigma_\gamma=2.51(6)$		
⁹³ Nb 4501.43(10)	0.0056(7)	1.83(23)×10 ⁻⁴	⁹⁸ Mo 140.5110(10)d	0.0276(7)	0.000872[<0.1%]
⁹³ Nb 4505.78(10)	0.0029(3)	9.5(10)×10 ⁻⁵	¹⁰⁰ Mo 180.711(15)	0.0017(4)	5.4(13)×10 ⁻⁵
⁹³ Nb 4524.10(9)	0.0038(6)	1.24(20)×10 ⁻⁴	⁹⁸ Mo 198.38(11)	0.0108(9)	0.00034(3)
⁹³ Nb 4538.64(9)	0.0058(7)	1.89(23)×10 ⁻⁴	⁹⁴ Mo 204.20(5)	0.0117(6)	0.000370(19)
⁹³ Nb 4553.99(10)	0.0033(4)	1.08(13)×10 ⁻⁴	⁹⁵ Mo 349.77(4)	0.0327(13)	0.00103(4)
⁹³ Nb 4558.53(11)	0.0049(7)	1.60(23)×10 ⁻⁴	⁹⁵ Mo 369.68(9)	0.0319(19)	0.00101(6)
⁹³ Nb 4594.44(9)	0.0047(7)	1.53(23)×10 ⁻⁴	⁹⁵ Mo 480.57(3)	0.028(5)	0.00088(16)
⁹³ Nb 4606.89(13)	0.0046(6)	1.50(20)×10 ⁻⁴	⁹⁶ Mo 480.97(13)	0.0604(23)	0.00191(7)
⁹³ Nb 4629.91(9)	0.0049(7)	1.60(23)×10 ⁻⁴	⁹⁵ Mo 568.88(3)	0.0280(11)	0.00088(4)
⁹³ Nb 4635.44(9)	0.0047(6)	1.53(20)×10 ⁻⁴	⁹⁵ Mo 591.21(3)	0.0315(14)	0.00100(4)
⁹³ Nb 4662.32(9)	0.0028(6)	9.1(20)×10 ⁻⁵	⁹⁵ Mo 608.744(14)	0.121(4)	0.00082(13)
⁹³ Nb 4672.16(9)	0.0065(7)	2.12(23)×10 ⁻⁴	⁹⁵ Mo 719.528(14)	0.310(10)	0.0098(3)
⁹³ Nb 4681.99(9)	0.0059(7)	1.92(23)×10 ⁻⁴	⁹⁵ Mo 721.54(4)	0.025(3)	0.00079(10)
⁹³ Nb 4711.67(10)	0.0052(7)	1.70(23)×10 ⁻⁴	⁹⁷ Mo 723.338(19)	0.051(11)	0.0016(4)
⁹³ Nb 4739.00(8)	0.0153(9)	0.00050(3)	⁹⁵ Mo 736.820(14)	0.119(4)	0.00376(13)
⁹³ Nb 4749.12(9)	0.0038(6)	1.24(20)×10 ⁻⁴	⁹⁵ Mo 778.221(10)	2.02(6)	0.0638(19)
⁹³ Nb 4756.28(9)	0.0039(6)	1.27(20)×10 ⁻⁴	⁹⁷ Mo 787.39(3)	0.168(6)	0.00531(19)
⁹³ Nb 4772.35(8)	0.0045(7)	1.47(23)×10 ⁻⁴	⁹⁵ Mo 812.26(5)	0.0264(15)	0.00083(5)
⁹³ Nb 4791.62(13)	0.0071(7)	2.32(23)×10 ⁻⁴	⁹⁵ Mo 847.603(11)	0.324(9)	0.0102(3)
⁹³ Nb 4828.2(4)	0.0057(6)	1.86(20)×10 ⁻⁴	⁹⁵ Mo 849.85(3)	0.43(3)	0.0136(10)
⁹³ Nb 4913.65(9)	0.0078(7)	0.000254(23)	⁹⁵ Mo 852.93(3)	0.0444(17)	0.00140(5)
⁹³ Nb 4927.94(8)	0.0027(6)	8.8(20)×10 ⁻⁵	⁹² Mo 943.6(3)	0.0075(9)	2.4(3)×10 ⁻⁴
⁹³ Nb 4942.7(4)	0.0029(3)	9.5(10)×10 ⁻⁵	⁹⁵ Mo 968.46(5)	0.0323(19)	0.00102(6)
⁹³ Nb 4949.70(10)	0.0051(7)	1.66(23)×10 ⁻⁴	⁹⁵ Mo 1091.289(20)	0.201(6)	0.00635(19)
⁹³ Nb 4982.53(9)	0.0078(7)	0.000254(23)	⁹⁵ Mo 1106.36(4)	0.0309(18)	0.00098(6)
⁹³ Nb 4997.97(8)	0.0033(6)	1.08(20)×10 ⁻⁴	⁹⁵ Mo 1190.28(6)	0.0240(14)	0.00076(4)
⁹³ Nb 5032.08(8)	0.0058(7)	1.89(23)×10 ⁻⁴	⁹⁵ Mo 1200.10(3)	0.124(4)	0.00392(13)
⁹³ Nb 5052.89(9)	0.0022(5)	7.2(16)×10 ⁻⁵	⁹⁷ Mo 1230.13(5)	0.0253(15)	0.00080(5)
⁹³ Nb 5065.65(8)	0.0034(6)	1.11(20)×10 ⁻⁴	⁹⁵ Mo 1317.35(8)	0.091(6)	0.00287(19)
⁹³ Nb 5070.27(7)	0.0102(8)	0.00033(3)	⁹⁵ Mo 1497.742(17)	0.122(4)	0.00385(13)
⁹³ Nb 5087.36(8)	0.0030(5)	9.8(16)×10 ⁻⁵	⁹⁵ Mo 1625.817(15)	0.0264(15)	0.00083(5)
⁹³ Nb 5103.34(7)	0.0232(12)	0.00076(4)	⁹⁵ Mo 1702.78(4)	0.0220(15)	0.00069(5)
⁹³ Nb 5129.16(8)	0.0034(5)	1.11(16)×10 ⁻⁴	⁹⁵ Mo 1846.26(15)	0.022(3)	0.00069(10)
⁹³ Nb 5179.99(7)	0.0072(7)	2.35(23)×10 ⁻⁴	⁹⁵ Mo 1923.47(13)	0.0250(18)	0.00079(6)
⁹³ Nb 5193.62(18)	0.0114(8)	0.00037(3)	⁹⁵ Mo 2011.87(5)	0.0226(16)	0.00071(5)
⁹³ Nb 5207.96(9)	0.0072(7)	2.35(23)×10 ⁻⁴	⁹⁵ Mo 2663.47(9)	0.0455(21)	0.00144(7)
⁹³ Nb 5213.75(9)	0.00196(21)	6.4(7)×10 ⁻⁵	⁹⁵ Mo 5602.15(15)	0.0242(17)	0.00076(5)
⁹³ Nb 5252.52(9)	0.0080(8)	0.00026(3)	⁹⁵ Mo 5711.98(12)	0.048(4)	0.00152(13)
⁹³ Nb 5257.70(9)	0.00214(23)	7.0(8)×10 ⁻⁵	⁹⁵ Mo 6363.55(10)	0.0235(17)	0.00074(5)
⁹³ Nb 5284.14(8)	0.0050(7)	1.63(23)×10 ⁻⁴	⁹⁷ Mo 6624.801(20)	0.027(10)	0.0009(3)
⁹³ Nb 5290.46(8)	0.0022(3)	7.2(10)×10 ⁻⁵	⁹⁵ Mo 6919.05(9)	0.106(6)	0.00335(19)
⁹³ Nb 5301.22(8)	0.0031(6)	1.01(20)×10 ⁻⁴	⁹⁵ Mo 7527.75(9)	0.0264(20)	0.00083(6)
⁹³ Nb 5307.94(8)	0.0063(7)	2.05(23)×10 ⁻⁴	Ruthenium (Z=44), At.Wt.=101.07(2), $\sigma_\gamma=2.75(21)$		
⁹³ Nb 5348.57(8)	0.0082(7)	0.000267(23)	¹⁰⁴ Ru 75.251(25)	0.0233(22)	0.00070(7)
⁹³ Nb 5363.82(8)	0.0073(7)	2.38(23)×10 ⁻⁴	⁹⁸ Ru 89.69(10)	0.0036(7)	1.08(21)×10 ⁻⁴
⁹³ Nb 5368.1(4)	0.0039(6)	1.27(20)×10 ⁻⁴	¹⁰⁴ Ru 107.917(14)	0.0153(14)	0.00046(4)
⁹³ Nb 5399.86(7)	0.0050(7)	1.63(23)×10 ⁻⁴	¹⁰⁰ Ru 127.18(8)	0.049(4)	0.00147(12)
⁹³ Nb 5447.70(7)	0.0026(3)	8.5(10)×10 ⁻⁵	¹⁰² Ru 136.05(4)	0.066(6)	0.00198(18)
⁹³ Nb 5450.96(7)	0.0053(7)	1.73(23)×10 ⁻⁴	¹⁰⁴ Ru 143.206(9)	0.0206(20)	0.00062(6)
⁹³ Nb 5496.24(10)	0.0205(14)	0.00067(5)	¹⁰⁴ Ru 159.303(16)	0.0179(20)	0.00054(6)
⁹³ Nb 5507.79(7)	0.0041(5)	1.34(16)×10 ⁻⁴	¹⁰² Ru 174.27(3)	0.076(7)	0.00228(21)
⁹³ Nb 5511.28(8)	0.0053(7)	1.73(23)×10 ⁻⁴	⁹⁶ Ru 189.24(4)	0.0099(11)	0.00030(3)
⁹³ Nb 5532.16(8)	0.0027(5)	8.8(16)×10 ⁻⁵	¹⁰² Ru 250.78(6)	0.0238(23)	0.00071(7)
⁹³ Nb 5572.33(8)	0.0037(5)	1.21(16)×10 ⁻⁴	¹⁰² Ru 270.58(8)	0.034(3)	0.00102(9)
⁹³ Nb 5591.31(6)	0.0080(7)	0.000261(23)	¹⁰² Ru 294.66(4)	0.071(6)	0.00213(18)
⁹³ Nb 5607.32(8)	0.0041(5)	1.34(16)×10 ⁻⁴	¹⁰⁴ Ru 301.75(5)	0.0192(19)	0.00058(6)
⁹³ Nb 5612.72(8)	0.0037(5)	1.21(16)×10 ⁻⁴	¹⁰⁴ Ru 321.526(24)	0.0175(18)	0.00052(5)
⁹³ Nb 5645.93(7)	0.0026(4)	8.5(13)×10 ⁻⁵	¹⁰² Ru 346.23(6)	0.030(3)	0.00090(9)
⁹³ Nb 5769.77(7)	0.0054(6)	1.76(20)×10 ⁻⁴	¹⁰⁴ Ru 358.57(7)	0.0173(24)	0.00052(7)
⁹³ Nb 5880.80(9)	0.0035(4)	1.14(13)×10 ⁻⁴	¹⁰² Ru 403.10(5)	0.062(6)	0.00186(18)
⁹³ Nb 5895.01(7)	0.0183(8)	0.00060(3)	⁹⁹ Ru 403.18(8)	0.050(10)	0.0015(3)
⁹³ Nb 5946.31(9)	0.0045(6)	1.47(20)×10 ⁻⁴	¹⁰¹ Ru 418.531(22)	0.033(4)	0.00099(12)
⁹³ Nb 5954.41(10)	0.0025(3)	8.2(10)×10 ⁻⁵	⁹⁹ Ru 424.87(5)	0.0170(21)	0.00051(6)
⁹³ Nb 5964.58(7)	0.0055(6)	1.79(20)×10 ⁻⁴	¹⁰² Ru 432.00(6)	0.0267(25)	0.00080(8)
⁹³ Nb 5980.27(5)	0.0029(5)	9.5(16)×10 ⁻⁵	¹⁰⁴ Ru 462.93(7)	0.025(3)	0.00075(9)
⁹³ Nb 5995.47(3)	0.0033(5)	1.08(16)×10 ⁻⁴	¹⁰¹ Ru 468.69(4)	0.049(5)	0.00147(15)
⁹³ Nb 6068.67(5)	0.0026(4)	8.5(13)×10 ⁻⁵	¹⁰¹ Ru 475.0950(20)	0.98(9)	0.029(3)
⁹³ Nb 6292.06(11)	0.0033(4)	1.08(13)×10 ⁻⁴	¹⁰² Ru 500.96(10)	0.0175(19)	0.00052(6)
⁹³ Nb 6331.751(16)	0.0029(4)	9.5(13)×10 ⁻⁵	⁹⁹ Ru 518.92(4)	0.026(3)	0.00078(9)
⁹³ Nb 6434.833(18)	0.0047(4)	1.53(13)×10 ⁻⁴			
⁹³ Nb 6595.867(18)	0.0020(3)	6.5(10)×10 ⁻⁵			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
Ruthenium (Z=44), continued			Rhodium (Z=45), continued		
⁹⁹ Ru 539.538(15)	1.53(13)	0.046(4)	¹⁰³ Rh 100.74(4)	4.96(10)	0.146(3)
¹⁰² Ru 545.44(5)	0.0253(25)	0.00076(8)	¹⁰³ Rh 105.40(6)	0.47(4)	0.0138(12)
¹⁰² Ru 554.54(7)	0.027(3)	0.00081(9)	¹⁰³ Rh 118.10(3)	0.570(15)	0.0168(4)
¹⁰⁴ Ru 562.70(6)	0.028(3)	0.00084(9)	¹⁰³ Rh 119.50(3)	1.5(3)	0.044(9)
¹⁰² Ru 562.86(12)	0.017(4)	0.00051(12)	¹⁰³ Rh 127.20(3)	5.27(21)	0.155(6)
⁹⁹ Ru 590.91(6)	0.053(5)	0.00159(15)	¹⁰³ Rh 129.37(3)	0.465(20)	0.0137(6)
¹⁰¹ Ru 627.970(22)	0.176(16)	0.0053(5)	¹⁰³ Rh 131.86(6)	0.437(24)	0.0129(7)
¹⁰¹ Ru 631.22(4)	0.30(3)	0.0090(9)	¹⁰³ Rh 134.54(3)	6.8(4)	0.200(12)
⁹⁹ Ru 631.48(6)	0.017(5)	0.00051(15)	¹⁰³ Rh 135.16(4)	0.66(16)	0.019(5)
¹⁰¹ Ru 636.86(6)	0.033(3)	0.00099(9)	¹⁰³ Rh 137.65(3)	0.45(4)	0.0133(12)
¹⁰⁴ Ru 640.16(7)	0.0171(22)	0.00051(7)	¹⁰³ Rh 138.74(4)	0.54(4)	0.0159(12)
¹⁰¹ Ru 680.57(6)	0.0162(22)	0.00049(7)	¹⁰³ Rh 146.72(3)	1.5(3)	0.044(9)
⁹⁹ Ru 686.907(17)	0.52(5)	0.0156(15)	¹⁰³ Rh 157.00(3)	1.05(3)	0.0309(9)
¹⁰¹ Ru 692.28(9)	0.025(3)	0.00075(9)	¹⁰³ Rh 159.49(3)	0.380(16)	0.0112(5)
¹⁰¹ Ru 695.53(9)	0.039(5)	0.00117(15)	¹⁰³ Rh 161.55(4)	1.00(3)	0.0294(9)
¹⁰¹ Ru 697.31(15)	0.020(3)	0.00060(9)	¹⁰³ Rh 165.20(4)	0.89(4)	0.0262(12)
⁹⁹ Ru 700.53(3)	0.018(3)	0.00054(9)	¹⁰³ Rh 168.21(5)	0.45(10)	0.013(3)
⁹⁹ Ru 710.70(4)	0.034(3)	0.00102(9)	¹⁰³ Rh 169.16(5)	2.88(19)	0.085(6)
¹⁰⁴ Ru 724.30(3)d	0.0760(11)	0.00228[7.4%]	¹⁰³ Rh 170.08(6)	0.64(19)	0.019(6)
⁹⁹ Ru 734.60(6)	0.0254(25)	0.00076(8)	¹⁰³ Rh 177.64(4)	1.85(12)	0.054(4)
¹⁰¹ Ru 739.614(21)	0.0196(20)	0.00059(6)	¹⁰³ Rh 178.66(4)	3.27(14)	0.096(4)
¹⁰¹ Ru 766.82(10)	0.019(3)	0.00057(9)	¹⁰³ Rh 180.87(3)	22.6(15)	0.67(4)
⁹⁹ Ru 822.579(22)	0.137(12)	0.0041(4)	¹⁰³ Rh 186.04(3)	1.50(5)	0.0442(15)
⁹⁹ Ru 836.20(3)	0.029(5)	0.00087(15)	¹⁰³ Rh 196.55(5)	0.80(16)	0.024(5)
⁹⁹ Ru 849.23(4)	0.030(3)	0.00090(9)	¹⁰³ Rh 198.89(4)	0.52(10)	0.015(3)
¹⁰¹ Ru 940.42(3)	0.038(4)	0.00114(12)	¹⁰³ Rh 202.85(6)	1.6(3)	0.047(9)
¹⁰¹ Ru 1046.498(3)	0.103(9)	0.0031(3)	¹⁰³ Rh 213.05(3)	1.27(3)	0.0374(9)
¹⁰² Ru 1075.37(14)	0.0188(21)	0.00056(6)	¹⁰³ Rh 215.340(22)	5.20(12)	0.153(4)
¹⁰¹ Ru 1103.062(22)	0.100(9)	0.0030(3)	¹⁰³ Rh 215.36(3)	1.54(12)	0.045(4)
¹⁰¹ Ru 1105.54(6)	0.055(5)	0.00165(15)	¹⁰³ Rh 216.54(8)	5.0(10)	0.15(3)
⁹⁹ Ru 1107.20(5)	0.0236(24)	0.00071(7)	¹⁰³ Rh 217.82(3)	7.38(13)	0.217(4)
⁹⁹ Ru 1207.93(8)	0.022(6)	0.00066(18)	¹⁰³ Rh 218.44(4)	0.30(6)	0.0088(18)
⁹⁹ Ru 1266.58(4)	0.0178(20)	0.00053(6)	¹⁰³ Rh 219.85(4)	0.480(19)	0.0141(6)
⁹⁹ Ru 1325.51(4)	0.034(4)	0.00102(12)	¹⁰³ Rh 222.74(5)	0.26(3)	0.0077(9)
⁹⁹ Ru 1341.50(3)	0.137(12)	0.0041(4)	¹⁰³ Rh 235.93(6)	0.345(10)	0.0102(3)
⁹⁹ Ru 1362.111(24)	0.111(13)	0.0033(4)	¹⁰³ Rh 245.07(5)	0.29(4)	0.0085(12)
⁹⁹ Ru 1365.29(4)	0.023(3)	0.00069(9)	¹⁰³ Rh 245.45(4)	0.387(17)	0.0114(5)
⁹⁹ Ru 1520.71(8)	0.022(3)	0.00066(9)	¹⁰³ Rh 246.61(5)	0.27(5)	0.0080(15)
⁹⁹ Ru 1523.10(3)	0.034(4)	0.00102(12)	¹⁰³ Rh 247.55(5)	0.387(17)	0.0114(5)
⁹⁹ Ru 1535.75(19)	0.0155(21)	0.00046(6)	¹⁰³ Rh 261.38(5)	1.09(3)	0.0321(9)
⁹⁹ Ru 1559.51(6)	0.027(3)	0.00081(9)	¹⁰³ Rh 266.84(3)	2.66(17)	0.078(5)
¹⁰¹ Ru 1568.383(20)	0.044(4)	0.00132(12)	¹⁰³ Rh 269.18(3)	1.42(11)	0.042(3)
⁹⁹ Ru 1627.32(3)	0.129(12)	0.0039(4)	¹⁰³ Rh 273.62(3)	0.814(18)	0.0240(5)
⁹⁹ Ru 1701.11(7)	0.032(3)	0.00096(9)	¹⁰³ Rh 284.36(4)	0.26(3)	0.0077(9)
¹⁰² Ru 1730.6(3)	0.0176(23)	0.00053(7)	¹⁰³ Rh 286.18(8)	0.42(4)	0.0124(12)
⁹⁹ Ru 1827.09(5)	0.045(4)	0.00135(12)	¹⁰³ Rh 303.59(5)	0.794(17)	0.0234(5)
⁹⁹ Ru 1865.04(4)	0.028(3)	0.00084(9)	¹⁰³ Rh 305.7(3)	1.070(21)	0.0315(6)
⁹⁹ Ru 1929.77(4)	0.025(3)	0.00075(9)	¹⁰³ Rh 317.07(4)	0.74(3)	0.0218(9)
¹⁰² Ru 1959.30(7)	0.210(19)	0.0063(6)	¹⁰³ Rh 323.48(4)	1.54(19)	0.045(6)
⁹⁹ Ru 1996.62(6)	0.0223(25)	0.00067(8)	¹⁰³ Rh 324.64(4)	0.57(9)	0.017(3)
¹⁰² Ru 2074.98(20)	0.022(3)	0.00066(9)	¹⁰³ Rh 333.44(3)	3.27(8)	0.0963(24)
⁹⁹ Ru 3016.61(9)	0.0175(21)	0.00052(6)	¹⁰³ Rh 352.99(3)	0.668(19)	0.0197(6)
⁹⁹ Ru 3981.1(3)	0.0186(24)	0.00056(7)	¹⁰³ Rh 352.99(3)	0.668(19)	0.0197(6)
¹⁰² Ru 4627.38(14)	0.0187(24)	0.00056(7)	¹⁰³ Rh 356.82(3)	0.668(19)	0.0197(6)
¹⁰⁴ Ru 4943.1(3)	0.020(3)	0.00060(9)	¹⁰³ Rh 370.48(7)	0.429(18)	0.0126(5)
¹⁰⁰ Ru 6266.6(3)	0.0180(13)	0.00054(4)	¹⁰³ Rh 374.826(23)	1.300(25)	0.0383(7)
¹⁰¹ Ru 6274.68(4)	0.017(3)	0.00051(9)	¹⁰³ Rh 379.823(5)	0.301(21)	0.0089(6)
⁹⁹ Ru 6340.59(6)	0.024(4)	0.00072(12)	¹⁰³ Rh 382.24(3)	0.374(25)	0.0110(7)
¹⁰¹ Ru 6627.200(20)	0.093(9)	0.0028(3)	¹⁰³ Rh 385.10(3)	0.819(19)	0.0241(6)
¹⁰¹ Ru 6978.81(16)	0.041(5)	0.00123(15)	¹⁰³ Rh 391.18(5)	0.358(17)	0.0105(5)
⁹⁹ Ru 7103.08(8)	0.018(3)	0.00054(9)	¹⁰³ Rh 403.96(11)	0.350(15)	0.0103(4)
⁹⁹ Ru 7792.04(3)	0.132(13)	0.0040(4)	¹⁰³ Rh 408.16(4)	0.293(18)	0.0086(5)
Rhodium (Z=45), At. Wt.=102.90550(2), $\sigma_f=145.0(20)$			¹⁰³ Rh 420.62(3)	2.06(4)	0.0607(12)
¹⁰³ Rh 32.18(4)	0.25(5)	0.0074(15)	¹⁰³ Rh 427.44(3)	1.12(3)	0.0330(9)
¹⁰³ Rh 35.56(13)	0.65(7)	0.0191(21)	¹⁰³ Rh 431.91(12)	0.461(23)	0.0136(7)
¹⁰³ Rh 46.20(5)	0.37(5)	0.0109(15)	¹⁰³ Rh 440.55(3)	2.23(10)	0.066(3)
¹⁰³ Rh 51.50(3)d	5.2(3)	0.153[90%]	¹⁰³ Rh 459.69(6)	0.555(17)	0.0163(5)
¹⁰³ Rh 51.50(3)	16.0(4)	0.471(12)	¹⁰³ Rh 470.40(3)	2.61(7)	0.0769(21)
¹⁰³ Rh 55.46(4)	0.76(15)	0.022(4)	¹⁰³ Rh 482.230(25)	1.78(6)	0.0524(18)
¹⁰³ Rh 80.80(3)	0.73(16)	0.021(5)	¹⁰³ Rh 497.80(4)	0.88(4)	0.0259(12)
¹⁰³ Rh 83.74(3)	0.63(14)	0.019(4)	¹⁰³ Rh 503.00(13)	0.23(6)	0.0068(18)
¹⁰³ Rh 85.19(3)	3.2(3)	0.094(9)	¹⁰³ Rh 529.98(5)	0.885(21)	0.0261(6)
¹⁰³ Rh 85.97(4)	0.30(6)	0.0088(18)	¹⁰³ Rh 538.04(3)	2.43(7)	0.0716(21)
¹⁰³ Rh 97.14(3)	19.5(4)	0.574(12)	¹⁰³ Rh 542.31(8)	0.48(3)	0.0141(9)
			¹⁰³ Rh 550.87(8)	0.31(3)	0.0091(9)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
Rhodium (Z=45), continued			Palladium (Z=46), continued		
¹⁰³ Rh 555.81(4)d	3.14(9)	0.092[98%]	¹⁰⁵ Pd 1168.16(8)	0.0588(22)	0.00167(6)
¹⁰³ Rh 562.78(4)	0.299(22)	0.0088(7)	¹⁰⁵ Pd 1397.54(7)	0.089(3)	0.00253(9)
¹⁰³ Rh 574.07(5)	0.539(20)	0.0159(6)	¹⁰⁵ Pd 1572.54(7)	0.207(25)	0.0059(7)
¹⁰³ Rh 577.92(5)	0.342(19)	0.0101(6)	¹⁰⁵ Pd 1909.40(11)	0.0423(20)	0.00120(6)
¹⁰³ Rh 597.65(3)	0.997(23)	0.0294(7)	¹⁰⁵ Pd 1927.25(10)	0.041(3)	0.00117(9)
¹⁰³ Rh 609.55(12)	0.58(3)	0.0171(9)	¹⁰⁵ Pd 1988.14(12)	0.060(4)	0.00171(11)
¹⁰³ Rh 633.45(6)	0.239(17)	0.0070(5)	¹⁰⁵ Pd 2484.73(25)	0.052(4)	0.00148(11)
¹⁰³ Rh 680.61(6)	0.25(5)	0.0074(15)	¹⁰⁸ Pd 4794.02(12)	0.112(10)	0.0032(3)
¹⁰³ Rh 689.47(5)	0.35(8)	0.0103(24)	¹⁰⁸ Pd 5212.31(12)	0.061(5)	0.00174(14)
¹⁰³ Rh 695.38(7)	1.07(3)	0.0315(9)	¹¹⁰ Pd 5531.9(4)	0.0120(20)	0.00034(6)
¹⁰³ Rh 702.72(7)	0.869(25)	0.0256(7)	Silver (Z=47), At.Wt.=107.8682(2), σ_γ=63.3(8)		
¹⁰³ Rh 707.67(6)	0.843(25)	0.0248(7)	¹⁰⁹ Ag 68.36(4)	0.113(8)	0.00317(22)
¹⁰³ Rh 710.69(5)	0.46(4)	0.0135(12)	¹⁰⁹ Ag 72.67(5)	-0.9	-0.03
¹⁰³ Rh 718.26(6)	0.267(10)	0.0079(3)	¹⁰⁷ Ag 78.91(4)	3.90(12)	0.110(3)
¹⁰³ Rh 720.58(9)	0.297(9)	0.0087(3)	¹⁰⁹ Ag 79.91(6)	-1.0	-0.03
¹⁰³ Rh 722.81(4)	0.255(11)	0.0075(3)	¹⁰⁹ Ag 93.34(5)	0.5(3)	0.014(8)
¹⁰³ Rh 734.90(7)	0.68(5)	0.0200(15)	¹⁰⁷ Ag 101.55(8)	0.189(20)	0.0053(6)
¹⁰³ Rh 762.83(6)	0.339(21)	0.0100(6)	¹⁰⁹ Ag 105.95(6)	0.87(13)	0.024(4)
¹⁰³ Rh 787.12(4)	1.16(3)	0.0342(9)	¹⁰⁷ Ag 110.24(7)	0.273(22)	0.0077(6)
¹⁰³ Rh 790.43(12)	0.7(4)	0.021(12)	¹⁰⁷ Ag 113.51(6)	0.52(3)	0.0146(8)
¹⁰³ Rh 791.41(7)	0.84(5)	0.0247(15)	¹⁰⁹ Ag 117.45(8)	3.85(7)	0.1082(20)
¹⁰³ Rh 817.71(8)	0.5(3)	0.015(9)	¹⁰⁹ Ag 124.86(5)	0.158(12)	0.0044(3)
¹⁰³ Rh 834.94(7)	0.277(13)	0.0082(4)	¹⁰⁷ Ag 143.94(4)	0.121(5)	0.00340(14)
¹⁰³ Rh 868.28(6)	0.56(3)	0.0165(9)	¹⁰⁷ Ag 147.11(4)	0.114(5)	0.00320(14)
¹⁰³ Rh 872.24(4)	0.440(16)	0.0130(5)	¹⁰⁷ Ag 148.79(3)	0.214(6)	0.00601(17)
¹⁰³ Rh 907.66(7)	0.28(6)	0.0082(18)	¹⁰⁹ Ag 152.58(4)	0.326(6)	0.00916(17)
¹⁰³ Rh 951.96(6)	1.090(24)	0.0321(7)	¹⁰⁷ Ag 155.22(11)	0.081(13)	0.0023(4)
¹⁰³ Rh 5798.18(14)	0.59(3)	0.0174(9)	¹⁰⁹ Ag 161.69(5)	0.217(8)	0.00610(22)
¹⁰³ Rh 5917.43(5)	1.31(4)	0.0386(12)	¹⁰⁹ Ag 166.62(4)	0.295(10)	0.0083(3)
¹⁰³ Rh 6046.79(6)	0.88(4)	0.0259(12)	¹⁰⁷ Ag 178.32(4)	0.208(8)	0.00584(22)
¹⁰³ Rh 6082.98(7)	0.58(4)	0.0171(12)	¹⁰⁷ Ag 191.39(3)	1.81(5)	0.0509(14)
¹⁰³ Rh 6110.21(6)	0.278(19)	0.0082(6)	¹⁰⁷ Ag 192.90(3)	2.20(6)	0.0618(17)
¹⁰³ Rh 6172.33(5)	0.75(3)	0.0221(9)	¹⁰⁹ Ag 194.56(14)	-0.2	-0.006
¹⁰³ Rh 6211.62(4)	0.89(3)	0.0262(9)	¹⁰⁹ Ag 195.33(6)	0.50(3)	0.0140(8)
¹⁰³ Rh 6354.87(7)	0.46(3)	0.0135(9)	¹⁰⁹ Ag 198.72(4)	7.75(13)	0.218(4)
¹⁰³ Rh 6785.66(4)	0.470(20)	0.0138(6)	¹⁰⁷ Ag 201.31(6)	0.45(3)	0.0126(8)
Palladium (Z=46), At.Wt.=106.42(1), σ_γ=6.9(4)			¹⁰⁷ Ag 204.02(9)	0.088(22)	0.0025(6)
¹⁰⁸ Pd 113.4010(10)	0.335(5)	0.00954(14)	¹⁰⁷ Ag 206.46(3)	3.58(7)	0.1006(20)
¹⁰⁶ Pd 115.86(7)	<i>0.0141(13)</i>	<i>0.00040(4)</i>	¹⁰⁷ Ag 212.30(4)	0.26(4)	0.0073(11)
¹⁰² Pd 118.68(3)	<i>0.0042(11)</i>	<i>1.2(3)×10⁻⁴</i>	¹⁰⁷ Ag 215.15(4)	1.55(3)	0.0435(8)
¹⁰⁸ Pd 152.9420(10)	0.1450(22)	0.00413(6)	¹⁰⁹ Ag 220.77(10)	-0.08	-0.002
¹⁰⁸ Pd 178.0340(10)	0.1090(22)	0.00310(6)	¹⁰⁹ Ag 231.46(5)	0.224(12)	0.0063(3)
¹⁰⁸ Pd 188.9900(10)d	<i>0.0273(15)</i>	<i>0.00078[89%]</i>	¹⁰⁹ Ag 235.62(4)	4.62(7)	0.1298(20)
¹⁰⁸ Pd 197.346(5)	0.0650(20)	0.00185(6)	¹⁰⁷ Ag 236.85(4)	1.95(3)	0.0548(8)
¹⁰⁸ Pd 211.8840(20)	0.0540(18)	0.00154(5)	¹⁰⁹ Ag 236.89(7)	1.3(9)	0.037(25)
¹⁰⁸ Pd 245.0790(20)	0.250(4)	0.00712(11)	¹⁰⁷ Ag 237.63(3)	0.26(5)	0.0073(14)
¹⁰⁸ Pd 266.3430(20)	0.0515(12)	0.00147(3)	¹⁰⁷ Ag 239.10(4)	0.327(11)	0.0092(3)
¹⁰⁸ Pd 276.289(6)	0.0562(18)	0.00160(5)	¹⁰⁷ Ag 244.56(6)	0.146(20)	0.0041(6)
¹⁰⁴ Pd 280.65(6)	<i>0.0158(14)</i>	<i>0.00045(4)</i>	¹⁰⁷ Ag 249.15(6)	0.087(7)	0.00244(20)
¹⁰⁸ Pd 291.4350(20)	0.1040(20)	0.00296(6)	¹⁰⁹ Ag 252.17(5)	0.096(6)	0.00270(17)
¹⁰⁸ Pd 325.2840(20)	0.208(3)	0.00592(9)	¹⁰⁷ Ag 259.17(3)	1.560(25)	0.0438(7)
¹⁰⁸ Pd 326.8690(20)	0.0793(20)	0.00226(6)	¹⁰⁷ Ag 262.31(6)	0.161(11)	0.0045(3)
¹⁰⁸ Pd 333.960(4)	0.1110(25)	0.00316(7)	¹⁰⁹ Ag 267.08(3)	2.73(6)	0.0767(17)
¹⁰⁸ Pd 339.5290(20)	0.195(3)	0.00555(9)	¹⁰⁹ Ag 269.05(4)	0.6(5)	0.017(14)
¹⁰⁸ Pd 359.4290(20)	0.120(3)	0.00342(9)	¹⁰⁹ Ag 269.97(4)	0.565(25)	0.0159(7)
¹⁰⁸ Pd 378.1890(20)	0.0411(20)	0.00117(6)	¹⁰⁹ Ag 282.66(6)	0.079(10)	0.0022(3)
¹⁰⁸ Pd 428.409(4)	0.0504(21)	0.00144(6)	¹⁰⁷ Ag 286.91(4)	0.400(25)	0.0112(7)
¹⁰⁵ Pd 429.63(4)	0.145(3)	0.00413(9)	¹⁰⁷ Ag 294.39(3)	2.05(12)	0.058(3)
¹⁰⁸ Pd 433.5640(20)	0.097(3)	0.00276(9)	¹⁰⁷ Ag 295.22(18)	0.10(4)	0.0028(11)
¹⁰⁵ Pd 511.843(20)	4.00(4)	0.1139(11)	¹⁰⁷ Ag 299.95(3)	1.15(5)	0.0323(14)
¹⁰⁵ Pd 616.192(20)	0.629(9)	0.0179(3)	¹⁰⁷ Ag 301.75(7)	0.187(15)	0.0053(4)
¹⁰⁵ Pd 621.95(6)	0.126(7)	0.00359(20)	¹⁰⁹ Ag 302.83(13)	0.129(14)	0.0036(4)
¹⁰⁸ Pd 685.914(8)	0.042(7)	0.00120(20)	¹⁰⁹ Ag 304.43(15)	0.135(9)	0.00379(25)
¹⁰⁵ Pd 717.356(22)	0.777(9)	0.0221(3)	¹⁰⁹ Ag 316.88(3)	0.206(7)	0.00579(20)
¹⁰⁵ Pd 748.34(5)	0.0802(23)	0.00228(7)	¹⁰⁷ Ag 320.36(6)	0.091(7)	0.00256(20)
¹⁰⁸ Pd 754.894(9)	0.0474(18)	0.00135(5)	¹⁰⁷ Ag 328.99(3)	0.795(12)	0.0223(3)
¹⁰⁵ Pd 804.33(4)	0.091(3)	0.00259(9)	¹⁰⁹ Ag 338.74(3)	0.595(10)	0.0167(3)
¹⁰⁵ Pd 846.29(10)	0.0452(18)	0.00129(5)	¹⁰⁷ Ag 349.95(3)	0.70(4)	0.0197(11)
¹⁰⁵ Pd 848.16(6)	0.1000(25)	0.00285(7)	¹⁰⁷ Ag 350.99(9)	0.145(12)	0.0041(3)
¹⁰⁸ Pd 1019.872(9)	0.0467(25)	0.00133(7)	¹⁰⁹ Ag 357.82(5)	0.561(22)	0.0158(6)
¹⁰⁵ Pd 1045.82(3)	0.321(7)	0.00914(20)	¹⁰⁹ Ag 360.41(3)	1.55(3)	0.0435(8)
¹⁰⁵ Pd 1050.31(4)	0.360(8)	0.01025(23)	¹⁰⁷ Ag 365.41(23)	0.16(4)	0.0045(11)
¹⁰⁵ Pd 1053.68(9)	0.057(3)	0.00162(9)	¹⁰⁹ Ag 366.97(10)	0.21(4)	0.0059(11)
¹⁰⁵ Pd 1128.03(3)	0.323(6)	0.00920(17)	¹⁰⁷ Ag 372.1(3)	0.09(3)	0.0025(8)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Silver (Z=47), continued			Silver (Z=47), continued		
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
¹⁰⁷ Ag 376.71(9)	0.294(13)	0.0083(4)	¹⁰⁷ Ag 796.15(8)	0.38(4)	0.0107(11)
¹⁰⁹ Ag 378.11(6)	0.744(20)	0.0209(6)	¹⁰⁷ Ag 812.10(6)	0.131(5)	0.00368(14)
¹⁰⁷ Ag 380.90(3)	1.59(3)	0.0447(8)	¹⁰⁷ Ag 819.26(8)	0.291(6)	0.00818(17)
¹⁰⁹ Ag 380.97(15)	0.7(5)	0.020(14)	¹⁰⁷ Ag 845.19(14)	0.085(19)	0.0024(5)
¹⁰⁷ Ag 384.31(13)	0.128(22)	0.0036(6)	¹⁰⁷ Ag 881.01(7)	0.178(7)	0.00500(20)
¹⁰⁷ Ag 386.18(13)	0.192(24)	0.0054(7)	¹⁰⁷ Ag 895.48(3)	0.376(8)	0.01056(22)
¹⁰⁹ Ag 387.99(7)	0.121(21)	0.0034(6)	¹⁰⁷ Ag 918.97(11)	0.124(22)	0.0035(6)
¹⁰⁷ Ag 396.25(4)	0.138(6)	0.00388(17)	¹⁰⁷ Ag 938.04(5)	0.186(6)	0.00523(17)
¹⁰⁷ Ag 399.87(7)	0.093(6)	0.00261(17)	¹⁰⁷ Ag 960.13(4)	0.199(10)	0.0056(3)
¹⁰⁹ Ag 408.61(4)	0.459(9)	0.01290(25)	¹⁰⁷ Ag 972.69(7)	0.078(9)	0.00219(25)
¹⁰⁷ Ag 410.31(6)	0.142(6)	0.00399(17)	¹⁰⁷ Ag 1013.11(3)	0.698(13)	0.0196(4)
¹⁰⁹ Ag 416.93(5)	0.243(13)	0.0068(4)	¹⁰⁷ Ag 1051.36(5)	0.225(8)	0.00632(22)
¹⁰⁹ Ag 427.96(16)	0.273(11)	0.0077(3)	¹⁰⁷ Ag 1079.68(13)	0.165(15)	0.0046(4)
¹⁰⁷ Ag 429.09(7)	0.253(11)	0.0071(3)	¹⁰⁹ Ag 5539.17(21)	0.106(9)	0.00298(25)
¹⁰⁹ Ag 431.36(7)	0.248(13)	0.0070(4)	¹⁰⁹ Ag 5545.6(3)	0.106(12)	0.0030(3)
¹⁰⁷ Ag 437.713(15)	0.079(10)	0.0022(3)	¹⁰⁹ Ag 5554.8(3)	0.111(10)	0.0031(3)
¹⁰⁷ Ag 438.26(12)	0.191(11)	0.0054(3)	¹⁰⁹ Ag 5580.62(19)	0.302(14)	0.0085(4)
¹⁰⁷ Ag 439.69(12)	0.216(11)	0.0061(3)	¹⁰⁹ Ag 5615.11(20)	0.208(11)	0.0058(3)
¹⁰⁷ Ag 441.79(8)	0.181(21)	0.0051(6)	¹⁰⁹ Ag 5642.24(22)	0.199(12)	0.0056(3)
¹⁰⁹ Ag 446.10(7)	0.183(10)	0.0051(3)	¹⁰⁹ Ag 5701.49(19)	0.716(18)	0.0201(5)
¹⁰⁹ Ag 450.80(7)	0.098(16)	0.0028(5)	¹⁰⁹ Ag 5710.22(20)	0.229(10)	0.0064(3)
¹⁰⁹ Ag 461.56(6)	0.265(16)	0.0074(5)	¹⁰⁹ Ag 5773.12(21)	0.225(9)	0.00632(25)
¹⁰⁷ Ag 464.04(12)	0.236(20)	0.0066(6)	¹⁰⁹ Ag 5795.0(3)	0.513(14)	0.0144(4)
¹⁰⁷ Ag 465.37(6)	0.46(3)	0.0129(8)	¹⁰⁹ Ag 5913.3(5)	0.084(7)	0.00236(20)
¹⁰⁹ Ag 468.65(7)	0.166(9)	0.00466(25)	¹⁰⁹ Ag 5996.81(10)	0.154(7)	0.00433(20)
¹⁰⁷ Ag 479.36(7)	0.095(12)	0.0027(3)	¹⁰⁹ Ag 6022.46(10)	0.250(10)	0.0070(3)
¹⁰⁹ Ag 484.18(8)	0.253(18)	0.0071(5)	¹⁰⁹ Ag 6034.70(11)	0.080(6)	0.00225(17)
¹⁰⁷ Ag 485.68(13)	0.098(7)	0.00275(20)	¹⁰⁹ Ag 6057.25(9)	0.663(19)	0.0186(5)
¹⁰⁹ Ag 488.66(6)	0.149(12)	0.0042(3)	¹⁰⁹ Ag 6101.98(11)	0.080(5)	0.00225(14)
¹⁰⁹ Ag 495.71(3)	1.080(18)	0.0303(5)	¹⁰⁷ Ag 6268.80(24)	0.146(7)	0.00410(20)
¹⁰⁷ Ag 497.57(8)	0.157(9)	0.00441(25)	¹⁰⁷ Ag 6372.7(9)	0.11(4)	0.0031(11)
¹⁰⁷ Ag 499.97(4)	0.265(13)	0.0074(4)	¹⁰⁹ Ag 6540.92(9)	0.259(11)	0.0073(3)
¹⁰⁷ Ag 522.43(9)	0.125(7)	0.00351(20)	¹⁰⁷ Ag 6707.6(3)	0.083(7)	0.00233(20)
¹⁰⁹ Ag 524.47(3)	0.804(11)	0.0226(3)	¹⁰⁹ Ag 6807.13(11)	0.083(3)	0.00233(8)
¹⁰⁹ Ag 526.07(8)	0.364(7)	0.01023(20)	¹⁰⁷ Ag 6892.1(3)	0.079(6)	0.00222(17)
¹⁰⁷ Ag 527.23(5)	0.371(10)	0.0104(3)	¹⁰⁷ Ag 6977.2(3)	0.121(8)	0.00340(22)
¹⁰⁹ Ag 536.13(3)	1.090(16)	0.0306(5)	¹⁰⁷ Ag 7065.3(3)	0.103(8)	0.00289(22)
¹⁰⁹ Ag 544.14(5)	0.34(3)	0.0096(8)	¹⁰⁷ Ag 7078.5(3)	0.291(13)	0.0082(4)
¹⁰⁹ Ag 549.56(3)	1.540(24)	0.0433(7)	¹⁰⁷ Ag 7271.8(3)	0.284(14)	0.0080(4)
¹⁰⁷ Ag 563.91(5)	0.191(6)	0.00537(17)			
¹⁰⁷ Ag 572.10(6)	0.080(6)	0.00225(17)	Cadmium (Z=48), At. Wt.=112.411(8), $\sigma_t=2522(50)$		
¹⁰⁷ Ag 574.77(3)	0.299(7)	0.00840(20)	¹¹³ Cd 95.88(4)	21.2(6)	0.572(16)
¹⁰⁹ Ag 586.85(3)	0.459(8)	0.01290(22)	¹¹⁰ Cd 171.3(3)	57(6)	1.54(16)
¹⁰⁹ Ag 593.86(4)	0.484(11)	0.0136(3)	¹¹⁰ Cd 245.3(3)	274(25)	7.4(7)
¹⁰⁷ Ag 599.87(4)	0.37(3)	0.0104(8)	¹¹⁰ Cd 284.3(3)	29(3)	0.78(8)
¹⁰⁹ Ag 610.33(15)	0.105(25)	0.0029(7)	¹¹⁰ Cd 342.2(3)	1.0×10 ⁺⁰²	2.7×10 ⁺⁰⁰
¹⁰⁷ Ag 611.98(18)	0.09(3)	0.0025(8)	¹¹³ Cd 558.32(3)	1860(30)	50.1(8)
¹⁰⁹ Ag 614.15(8)	0.20(5)	0.0056(14)	¹¹³ Cd 576.04(3)	107.0(17)	2.88(5)
¹⁰⁷ Ag 616.89(4)	0.20(4)	0.0056(11)	¹¹¹ Cd 617.54(15)	2.9(4)	0.078(11)
¹⁰⁹ Ag 620.07(5)	0.40(5)	0.0112(14)	¹¹⁰ Cd 620.3(3)	38(4)	1.02(11)
¹⁰⁷ Ag 626.41(4)	0.39(6)	0.0110(17)	¹¹³ Cd 648.79(10)	34.1(9)	0.919(24)
¹⁰⁷ Ag 629.499(20)	0.12(3)	0.0034(8)	¹¹³ Cd 651.19(3)	358(5)	9.65(13)
¹⁰⁹ Ag 632.47(10)	0.42(12)	0.012(3)	¹¹³ Cd 654.47(4)	34.1(9)	0.919(24)
¹⁰⁷ Ag 636.53(4)	0.31(11)	0.009(3)	¹¹³ Cd 707.39(3)	29.3(5)	0.790(13)
¹⁰⁷ Ag 640.18(4)	0.24(6)	0.0067(17)	¹¹³ Cd 725.19(3)	107.0(13)	2.88(4)
¹⁰⁷ Ag 652.041(20)	0.117(19)	0.0033(5)	¹¹³ Cd 748.04(6)	37(3)	1.00(8)
¹⁰⁹ Ag 652.96(5)	0.255(12)	0.0072(3)	¹¹³ Cd 805.85(3)	134.0(18)	3.61(5)
¹⁰⁹ Ag 655.02(11)	0.107(14)	0.0030(4)	¹¹³ Cd 1209.65(4)	122.0(19)	3.29(5)
¹⁰⁹ Ag 657.50(10)d	1.86(5)	0.0523[99%]	¹¹³ Cd 1283.45(4)	47.5(9)	1.281(24)
¹⁰⁷ Ag 662.55(11)	0.088(12)	0.0025(3)	¹¹³ Cd 1300.98(5)	31.1(11)	0.84(3)
¹⁰⁷ Ag 664.91(3)	0.329(22)	0.0092(6)	¹¹³ Cd 1364.30(4)	123.0(21)	3.32(6)
¹⁰⁷ Ag 670.53(7)	0.104(17)	0.0029(5)	¹¹³ Cd 1370.55(5)	30.2(9)	0.814(24)
¹⁰⁷ Ag 674.07(6)	0.094(16)	0.0026(5)	¹¹³ Cd 1399.54(4)	97.7(15)	2.63(4)
¹⁰⁷ Ag 685.8(3)	0.081(20)	0.0023(6)	¹¹³ Cd 1489.53(4)	68.5(11)	1.85(3)
¹⁰⁷ Ag 687.48(8)	0.35(5)	0.0098(14)	¹¹³ Cd 1660.36(5)	66.7(13)	1.80(4)
¹⁰⁹ Ag 698.44(6)	0.158(6)	0.00444(17)	¹¹³ Cd 1826.19(7)	25.2(7)	0.679(19)
¹⁰⁷ Ag 718.17(6)	0.199(12)	0.0056(3)	¹¹³ Cd 2102.39(8)	24.0(9)	0.647(24)
¹⁰⁹ Ag 724.75(5)	0.393(14)	0.0110(4)	¹¹³ Cd 2398.27(12)	22.4(8)	0.604(22)
¹⁰⁷ Ag 746.21(19)	0.088(10)	0.0025(3)	¹¹³ Cd 2455.93(7)	87.3(18)	2.35(5)
¹⁰⁹ Ag 748.40(6)	0.328(9)	0.00921(25)	¹¹³ Cd 2550.30(8)	38.7(11)	1.04(3)
¹⁰⁹ Ag 750.77(4)	0.529(11)	0.0149(3)	¹¹³ Cd 2659.96(7)	64.0(15)	1.73(4)
¹⁰⁹ Ag 767.01(5)	0.31(4)	0.0087(11)	¹¹³ Cd 2767.67(13)	22.4(13)	0.60(4)
¹⁰⁹ Ag 773.32(8)	0.22(3)	0.0062(8)	¹¹³ Cd 2799.98(9)	27.6(9)	0.744(24)
¹⁰⁷ Ag 781.21(11)	0.094(22)	0.0026(6)	¹¹³ Cd 2999.69(12)	29.1(14)	0.78(4)
¹⁰⁹ Ag 785.57(5)	0.34(4)	0.0096(11)	¹¹³ Cd 3109.08(12)	28.6(12)	0.77(3)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Cadmium (Z=48), continued			Indium (Z=49), continued		
¹¹³ Cd 3218.96(12)	19.0(9)	0.512(24)	¹¹⁵ In 518.119(12)	3.15(22)	0.083(6)
¹¹³ Cd 5824.31(16)	69.1(18)	1.86(5)	¹¹⁵ In 521.501(9)	1.97(14)	0.052(4)
¹¹³ Cd 5934.39(20)	19.3(10)	0.52(3)	¹¹⁵ In 540.382(8)	0.60(4)	0.0158(11)
Indium (Z=49), At. Wt.=114.818(3), σ_{γ}=272(8)			¹¹⁵ In 548.720(9)	2.01(14)	0.053(4)
¹¹⁵ In 22.796(7)	7(3)	0.18(8)	¹¹⁵ In 555.47(11)	0.7(5)	0.018(13)
¹¹⁵ In 60.9160(10)	15.8(11)	0.42(3)	¹¹⁵ In 556.169(8)	1.6(9)	0.042(24)
¹¹⁵ In 76.7580(20)	0.41(3)	0.0108(8)	¹¹⁵ In 556.845(21)	4.7(3)	0.124(8)
¹¹⁵ In 84.3080(20)	1.32(9)	0.0348(24)	¹¹⁵ In 560.095(9)	0.85(5)	0.0224(13)
¹¹⁵ In 85.5690(20)	22.1(16)	0.58(4)	¹¹⁵ In 567.596(20)	0.94(7)	0.0248(18)
¹¹⁵ In 95.380(4)	1.0(4)	0.026(11)	¹¹⁵ In 577.523(18)	1.92(14)	0.051(4)
¹¹⁵ In 96.036(5)	11.4(14)	0.30(4)	¹¹⁵ In 602.36(4)	2.86(20)	0.075(5)
¹¹⁵ In 96.062(3)	24.6(18)	0.65(5)	¹¹⁵ In 608.422(11)	3.51(25)	0.093(7)
¹¹⁵ In 112.4540(20)	1.38(9)	0.0364(24)	¹¹⁵ In 622.57(11)	0.83(5)	0.0219(13)
¹¹⁵ In 114.997(3)	0.47(3)	0.0124(8)	¹¹⁵ In 633.740(11)	1.54(11)	0.041(3)
¹¹⁵ In 126.3720(20)	4.0(3)	0.106(8)	¹¹⁵ In 634.288(9)	1.68(13)	0.044(3)
¹¹⁵ In 138.326(8)d	5.11(18)	0.135[30%]	¹¹⁵ In 647.72(8)	1.18(9)	0.0311(24)
¹¹⁵ In 140.4560(20)	1.58(11)	0.042(3)	¹¹⁵ In 654.95(7)	0.47(3)	0.0124(8)
¹¹⁵ In 141.1700(20)	2.63(18)	0.069(5)	¹¹⁵ In 657.084(11)	1.52(11)	0.040(3)
¹¹⁵ In 149.6700(20)	0.69(5)	0.0182(13)	¹¹⁵ In 662.115(10)	0.44(3)	0.0116(8)
¹¹⁵ In 155.272(3)	2.48(18)	0.065(5)	¹¹⁵ In 693.29(9)	1.83(13)	0.048(3)
¹¹⁵ In 159.932(4)	1.07(7)	0.0282(18)	¹¹⁵ In 706.21(10)	0.40(9)	0.0106(24)
¹¹⁵ In 162.393(3)d	15.8(8)	0.417[100%]	¹¹⁵ In 746.978(9)	0.71(5)	0.0187(13)
¹¹⁵ In 163.802(8)	0.67(5)	0.0177(13)	¹¹⁵ In 771.01(8)	1.52(11)	0.040(3)
¹¹⁵ In 171.059(5)	3.44(25)	0.091(7)	¹¹⁵ In 792.16(6)	1.34(9)	0.0354(24)
¹¹⁵ In 173.886(6)	4.1(3)	0.108(8)	¹¹⁵ In 807.897(25)	0.44(3)	0.0116(8)
¹¹⁵ In 175.066(4)	1.12(7)	0.0296(18)	¹¹⁵ In 818.70(20)d	17.8(7)	0.470[30%]
¹¹⁵ In 186.2100(20)	26.6(18)	0.70(5)	¹¹⁵ In 819.04(11)	2.59(18)	0.068(5)
¹¹⁵ In 196.738(5)	0.89(7)	0.0235(18)	¹¹⁵ In 847.54(8)	2.15(16)	0.057(4)
¹¹⁵ In 202.602(3)	2.70(20)	0.071(5)	¹¹⁵ In 992.10(10)	0.91(7)	0.0240(18)
¹¹⁵ In 213.625(12)	0.64(5)	0.0169(13)	¹¹⁵ In 1097.30(20)d	87.3(17)	2.30[30%]
¹¹⁵ In 234.618(11)	0.71(25)	0.019(7)	¹¹⁵ In 1293.54(15)d	131(3)	3.46[30%]
¹¹⁵ In 235.275(4)	4.9(3)	0.129(8)	¹¹⁵ In 1507.40(20)d	15.5(5)	0.409[30%]
¹¹⁵ In 240.30(3)	0.44(3)	0.0116(8)	¹¹⁵ In 1753.8(6)d	3.82(12)	0.101[30%]
¹¹⁵ In 267.960(20)	0.52(4)	0.0137(11)	¹¹⁵ In 2112.1(4)d	24.1(7)	0.636[30%]
¹¹⁵ In 272.9660(20)	33.1(24)	0.87(6)	¹¹⁵ In 5333.54(18)	0.89(7)	0.0235(18)
¹¹⁵ In 284.914(4)	4.5(3)	0.119(8)	¹¹⁵ In 5347.4(6)	0.362(25)	0.0096(7)
¹¹³ In 287.726(19)	0.20(5)	0.0053(13)	¹¹⁵ In 5358.9(5)	0.51(4)	0.0135(11)
¹¹⁵ In 290.952(15)	2.55(18)	0.067(5)	¹¹⁵ In 5410.56(19)	0.53(4)	0.0140(11)
¹¹⁵ In 293.393(15)	0.40(16)	0.011(4)	¹¹⁵ In 5891.89(17)	2.10(14)	0.055(4)
¹¹⁵ In 293.644(14)	1.38(11)	0.036(3)	Tin (Z=50), At. Wt.=118.710(7), σ_{γ}=0.54(5)		
¹¹⁵ In 295.515(17)	2.86(20)	0.075(5)	¹²⁰ Sn 60.66(15)	0.0052(7)	1.33(18)×10 ⁻⁴
¹¹⁵ In 298.664(3)	9.4(7)	0.248(18)	¹²² Sn 125.80(7)	0.00178(9)	4.54(23)×10 ⁻⁵
¹¹⁵ In 300.388(4)	0.45(3)	0.0119(8)	¹¹⁶ Sn 158.65(6)	0.0145(3)	0.00370(8)
¹¹⁵ In 305.108(8)	1.30(9)	0.0343(24)	¹²⁴ Sn 187.67(7)	0.00363(12)	9.3(3)×10 ⁻⁵
¹¹⁵ In 315.053(12)	0.69(5)	0.0182(13)	¹²⁴ Sn 331.90(20)d	0.00830(20)	2.12×10 ⁻⁴ [77%]
¹¹⁵ In 318.48(4)	0.60(4)	0.0158(11)	¹¹⁵ Sn 416.99(4)	0.00251(11)	6.4(3)×10 ⁻⁵
¹¹⁵ In 320.895(8)	2.30(16)	0.061(4)	¹¹⁵ Sn 463.242(17)	0.0128(3)	0.000327(8)
¹¹⁵ In 321.653(18)	0.7(3)	0.018(8)	¹¹⁷ Sn 528.85(6)	0.00425(14)	1.08(4)×10 ⁻⁴
¹¹⁵ In 335.450(10)	9.1(7)	0.240(18)	¹¹⁶ Sn 552.90(9)	0.00137(13)	3.5(3)×10 ⁻⁵
¹¹⁵ In 337.687(8)	2.52(18)	0.067(5)	¹¹⁹ Sn 703.87(7)	0.0078(3)	1.99(8)×10 ⁻⁴
¹¹⁵ In 339.15(4)	0.47(11)	0.012(3)	¹¹⁵ Sn 733.89(3)	0.00925(21)	2.36(5)×10 ⁻⁴
¹¹⁵ In 364.995(20)	0.53(4)	0.0140(11)	¹¹⁷ Sn 813.26(7)	0.0071(3)	1.81(8)×10 ⁻⁴
¹¹⁵ In 373.149(24)	0.38(3)	0.0100(8)	¹¹⁵ Sn 818.721(14)	0.0128(4)	0.000327(10)
¹¹⁵ In 375.969(12)	2.66(20)	0.070(5)	¹¹⁷ Sn 827.37(8)	0.00361(23)	9.2(6)×10 ⁻⁵
¹¹⁵ In 384.421(11)	2.9(7)	0.077(18)	¹¹⁶ Sn 861.39(10)	0.00191(19)	4.9(5)×10 ⁻⁵
¹¹⁵ In 385.111(8)	12.1(9)	0.319(24)	¹²⁰ Sn 869.38(8)	0.00320(22)	8.2(6)×10 ⁻⁵
¹¹⁵ In 387.636(13)	0.344(25)	0.0091(7)	¹¹⁸ Sn 897.28(8)	0.00368(21)	9.4(5)×10 ⁻⁵
¹¹⁵ In 393.09(11)	0.39(3)	0.0103(8)	¹²⁰ Sn 908.89(8)	0.00307(19)	7.8(5)×10 ⁻⁵
¹¹⁵ In 396.496(12)	0.51(4)	0.0135(11)	¹²² Sn 920.87(7)	0.00404(21)	1.03(5)×10 ⁻⁴
¹¹⁵ In 410.433(11)	0.69(5)	0.0182(13)	¹¹⁸ Sn 920.87(7)	0.00404(21)	1.03(5)×10 ⁻⁴
¹¹⁵ In 416.86(3)d	43.0(18)	1.13[30%]	¹¹⁹ Sn 925.90(6)	0.0097(3)	2.48(8)×10 ⁻⁴
¹¹⁵ In 422.213(11)	1.70(13)	0.045(3)	¹²⁰ Sn 925.90(6)	0.0097(3)	2.48(8)×10 ⁻⁴
¹¹⁵ In 433.723(8)	6.0(4)	0.158(11)	¹¹⁵ Sn 931.819(23)	0.0111(3)	0.000283(8)
¹¹⁵ In 443.229(13)	0.58(4)	0.0153(11)	¹²⁰ Sn 943.20(12)	0.00150(17)	3.8(4)×10 ⁻⁵
¹¹⁵ In 447.531(11)	0.39(3)	0.0103(8)	¹¹⁵ Sn 972.619(17)	0.0158(5)	0.000403(13)
¹¹⁵ In 471.349(11)	4.3(3)	0.113(8)	¹¹⁹ Sn 988.67(7)	0.00668(22)	1.71(6)×10 ⁻⁴
¹¹⁵ In 475.906(10)	1.88(13)	0.050(3)	¹¹⁶ Sn 1004.49(8)	0.00388(18)	9.9(5)×10 ⁻⁵
¹¹⁵ In 489.314(10)	0.63(5)	0.0166(13)	¹²⁰ Sn 1041.60(14)	0.00189(20)	4.8(5)×10 ⁻⁵
¹¹⁵ In 490.374(12)	0.80(11)	0.021(3)	¹¹⁷ Sn 1050.66(9)	0.00293(22)	7.5(6)×10 ⁻⁵
¹¹⁵ In 492.532(11)	3.31(24)	0.087(6)	¹¹⁸ Sn 1065.17(13)	0.00214(21)	5.5(5)×10 ⁻⁵
¹¹⁵ In 497.670(19)	0.67(5)	0.0177(13)	¹¹⁷ Sn 1095.18(10)	0.0067(3)	1.71(8)×10 ⁻⁴
¹¹⁵ In 499.875(8)	0.37(3)	0.0098(8)	¹¹⁵ Sn 1097.323(18)	0.0039(5)	9.96(13)×10 ⁻⁵
¹¹⁵ In 515.661(8)	0.60(4)	0.0158(11)	¹²⁰ Sn 1101.25(16)	0.00322(25)	8.2(6)×10 ⁻⁵
¹¹⁵ In 517.957(20)	2.8(4)	0.074(11)	¹¹⁵ Sn 1115.15(4)	0.00150(16)	3.8(4)×10 ⁻⁵

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Iodine (Z=53), continued			Xenon (Z=54), continued		
E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
¹²⁷ I 282.611(12)	0.0193(20)	0.00046(5)	¹³¹ Xe 1171.29(6)	0.217(19)	0.0050(4)
¹²⁷ I 283.968(4)	0.028(3)	0.00067(7)	¹³¹ Xe 1298.09(7)	0.12(3)	0.0028(7)
¹²⁷ I 291.511(7)	0.0172(21)	0.00041(5)	¹³¹ Xe 1317.93(8)	0.89(7)	0.0205(16)
¹²⁷ I 297.393(17)	0.0155(25)	0.00037(6)	¹²⁹ Xe 1482.06(9)	0.112(16)	0.0026(4)
¹²⁷ I 301.906(5)	0.17(6)	0.0041(14)	¹³¹ Xe 1519.83(8)	0.131(25)	0.0030(6)
¹²⁷ I 310.419(6)	0.0166(18)	0.00040(4)	¹³¹ Xe 1801.58(6)	0.272(22)	0.0063(5)
¹²⁷ I 314.349(4)	0.060(5)	0.00143(12)	¹³¹ Xe 1888.05(8)	0.225(23)	0.0052(5)
¹²⁷ I 325.35(4)	0.020(3)	0.00048(7)	¹³¹ Xe 1985.71(10)	0.54(5)	0.0125(12)
¹²⁷ I 330.801(5)	0.0146(21)	0.00035(5)	¹³¹ Xe 2713.93(10)	0.079(9)	0.00182(21)
¹²⁷ I 344.758(7)	0.100(9)	0.00239(21)	¹³¹ Xe 3699.40(15)	0.082(16)	0.0019(4)
¹²⁷ I 364.640(3)	0.0211(25)	0.00050(6)	¹³¹ Xe 4734.85(17)	0.071(10)	0.00164(23)
¹²⁷ I 369.358(17)	0.0170(21)	0.00041(5)	¹³¹ Xe 4841.70(14)	0.107(15)	0.0025(4)
¹²⁷ I 374.218(5)	0.041(7)	0.00098(17)	¹³¹ Xe 5078.91(18)	0.106(16)	0.0024(4)
¹²⁷ I 374.456(7)	0.028(6)	0.00067(14)	¹²⁹ Xe 5956.18(18)	0.16(3)	0.0037(7)
¹²⁷ I 385.447(5)	0.086(7)	0.00205(17)	¹³¹ Xe 6380.62(13)	0.21(3)	0.0048(7)
¹²⁷ I 388.911(5)	0.022(3)	0.00053(7)	¹³¹ Xe 6467.09(12)	1.33(19)	0.031(4)
¹²⁷ I 392.002(3)	0.045(14)	0.0011(3)			
¹²⁷ I 392.687(6)	0.028(9)	0.00067(21)	Cesium (Z=55), At. Wt.=132.90545(2), $\sigma_{\gamma}=30.3(11)$		
¹²⁷ I 398.975(4)	0.018(3)	0.00043(7)	¹³³ Cs 11.2450(20)	0.142(7)	0.00324(16)
¹²⁷ I 416.579(6)	0.065(5)	0.00155(12)	¹³³ Cs 17.2130(20)	0.110(18)	0.0025(4)
¹²⁷ I 420.826(7)	0.139(18)	0.0033(4)	¹³³ Cs 38.6240(20)	0.080(12)	0.0018(3)
¹²⁷ I 442.901(10)d	0.595(4)	0.01421[51%]	¹³³ Cs 48.790(20)	0.345(10)	0.00787(23)
¹²⁷ I 458.056(9)	0.0266(23)	0.00064(6)	¹³³ Cs 60.0300(10)	0.443(14)	0.0101(3)
¹²⁷ I 502.607(18)	0.061(5)	0.00146(12)	¹³³ Cs 67.2540(20)	0.088(5)	0.00201(11)
¹²⁷ I 528.91(9)	0.054(5)	0.00129(12)	¹³³ Cs 73.5660(20)	0.117(19)	0.0027(4)
¹²⁷ I 557.43(4)	0.027(3)	0.00064(7)	¹³³ Cs 74.0460(20)	0.14(3)	0.0032(7)
¹²⁷ I 4950.10(7)	0.037(10)	0.00088(24)	¹³³ Cs 87.2520(20)	0.107(4)	0.00244(9)
¹²⁷ I 5018.648(17)	0.024(11)	0.0006(3)	¹³³ Cs 93.1850(20)	0.043(3)	0.00098(7)
¹²⁷ I 5091.988(12)	0.015(7)	0.00036(17)	¹³³ Cs 113.7650(20)	0.777(15)	0.0177(3)
¹²⁷ I 5096.357(17)	0.024(8)	0.00057(19)	¹³³ Cs 114.3270(20)	0.05(3)	0.0011(7)
¹²⁷ I 5197.957(12)	0.032(14)	0.0008(3)	¹³³ Cs 116.3740(20)	1.39(12)	0.032(3)
¹²⁷ I 5298.245(12)	0.031(7)	0.00074(17)	¹³³ Cs 116.612(4)	1.44(12)	0.033(3)
¹²⁷ I 5463.453(12)	0.018(6)	0.00043(14)	¹³³ Cs 117.1730(20)	0.04(3)	0.0009(7)
¹²⁷ I 5482.853(12)	0.018(13)	0.0004(3)	¹³³ Cs 118.3630(20)	0.230(7)	0.00524(16)
¹²⁷ I 5524.28(5)	0.015(5)	0.00036(12)	¹³³ Cs 120.588(3)	0.414(10)	0.00944(23)
¹²⁷ I 5559.662(12)	0.044(22)	0.0011(5)	¹³³ Cs 127.5000(20)d	0.310(11)	0.00707[11%]
¹²⁷ I 5574.501(12)	0.021(5)	0.00050(12)	¹³³ Cs 130.2320(20)	1.410(21)	0.0322(5)
¹²⁷ I 5725.929(12)	0.020(13)	0.0005(3)	¹³³ Cs 131.171(3)	0.054(5)	0.00123(11)
¹²⁷ I 6307.586(6)	0.024(8)	0.00057(19)	¹³³ Cs 133.5860(20)	0.038(3)	0.00087(7)
¹²⁷ I 6692.417(5)	0.037(8)	0.00088(19)	¹³³ Cs 137.7530(20)	0.030(4)	0.00068(9)
			¹³³ Cs 142.7680(20)	0.073(4)	0.00166(9)
			¹³³ Cs 174.3040(20)	0.420(11)	0.00958(25)
Xenon (Z=54), At. Wt.=131.293(6), $\sigma_{\gamma}=24(3)$			¹³³ Cs 176.4040(20)	2.47(4)	0.0563(9)
¹³¹ Xe 324.80(16)	0.09(5)	0.0021(12)	¹³³ Cs 177.068(3)	0.098(16)	0.0022(4)
¹²⁴ Xe 335.46(16)	0.0054(12)	1.2(3) $\times 10^{-4}$	¹³³ Cs 179.0180(20)	0.15(5)	0.0034(11)
¹²⁸ Xe 403.1(3)	0.0106(23)	2.4(5) $\times 10^{-4}$	¹³³ Cs 180.0770(20)	0.087(7)	0.00198(16)
¹³⁰ Xe 404.8(3)	0.0096(23)	2.2(5) $\times 10^{-4}$	¹³³ Cs 186.8400(20)	0.282(9)	0.00643(21)
¹³⁶ Xe 455.490(3)d	0.00350(6)	8.08 $\times 10^{-5}$ [91%]	¹³³ Cs 189.8320(20)	0.093(10)	0.00212(23)
¹³¹ Xe 471.72(12)	0.19(3)	0.0044(7)	¹³³ Cs 193.7250(20)	0.042(9)	0.00096(21)
¹³¹ Xe 483.66(10)	0.55(4)	0.0127(9)	¹³³ Cs 194.724(3)	0.045(9)	0.00103(21)
¹³¹ Xe 505.84(8)	0.40(3)	0.0092(7)	¹³³ Cs 198.3010(20)	1.100(19)	0.0251(4)
¹²⁹ Xe 510.33(8)	0.33(7)	0.0076(16)	¹³³ Cs 200.847(4)	0.135(10)	0.00308(23)
¹³¹ Xe 522.78(7)	0.273(22)	0.0063(5)	¹³³ Cs 205.615(3)	1.560(25)	0.0356(6)
¹²⁹ Xe 536.17(9)	1.71(24)	0.039(6)	¹³³ Cs 207.675(4)	0.093(6)	0.00212(14)
¹³¹ Xe 546.95(11)	0.094(16)	0.0022(4)	¹³³ Cs 209.5460(20)	0.073(6)	0.00166(14)
¹³¹ Xe 570.13(7)	0.188(15)	0.0043(4)	¹³³ Cs 211.3190(10)	0.223(10)	0.00508(23)
¹²⁹ Xe 586.17(5)	0.48(7)	0.0111(16)	¹³³ Cs 218.341(3)	0.309(9)	0.00705(21)
¹³¹ Xe 600.19(8)	0.52(4)	0.0120(9)	¹³³ Cs 219.7530(20)	0.344(9)	0.00784(21)
¹³⁶ Xe 600.99(8)	0.010(3)	2.3(7) $\times 10^{-4}$	¹³³ Cs 232.165(3)	0.125(9)	0.00285(21)
¹³¹ Xe 621.13(10)	0.085(8)	0.00196(18)	¹³³ Cs 234.3340(20)	1.070(23)	0.0244(5)
¹³¹ Xe 630.29(4)	1.41(11)	0.0325(25)	¹³³ Cs 245.8620(20)	0.740(15)	0.0169(3)
¹³¹ Xe 667.79(6)	6.7(5)	0.155(12)	¹³³ Cs 254.740(3)	0.069(7)	0.00157(16)
¹²⁹ Xe 668.59(15)	0.17(9)	0.0039(21)	¹³³ Cs 256.6210(20)	0.235(8)	0.00536(18)
¹³¹ Xe 670.02(10)	0.22(3)	0.0051(7)	¹³³ Cs 261.1640(20)	0.401(11)	0.00914(25)
¹³¹ Xe 772.72(4)	1.78(14)	0.041(3)	¹³³ Cs 263.8260(20)	0.079(7)	0.00180(16)
¹³¹ Xe 812.45(10)	0.082(8)	0.00189(18)	¹³³ Cs 268.987(3)	0.199(6)	0.00454(14)
¹³¹ Xe 832.43(12)	0.108(15)	0.0025(4)	¹³³ Cs 271.3490(20)	0.127(15)	0.0029(3)
¹³¹ Xe 889.54(8)	0.084(8)	0.00194(18)	¹³³ Cs 272.212(4)	0.069(12)	0.0016(3)
¹³¹ Xe 954.65(12)	0.076(8)	0.00175(18)	¹³³ Cs 277.6310(20)	0.066(5)	0.00150(11)
¹³¹ Xe 984.54(9)	0.093(18)	0.0021(4)	¹³³ Cs 279.648(3)	0.065(5)	0.00148(11)
¹³¹ Xe 1028.86(6)	0.40(3)	0.0092(7)	¹³³ Cs 284.987(3)	0.044(5)	0.00100(11)
¹²⁹ Xe 1096.49(7)	0.087(12)	0.0020(3)	¹³³ Cs 293.295(3)	0.185(9)	0.00422(21)
¹³¹ Xe 1115.34(9)	0.149(20)	0.0034(5)	¹³³ Cs 295.431(3)	0.231(10)	0.00527(23)
¹²⁹ Xe 1122.33(10)	0.119(17)	0.0027(4)	¹³³ Cs 302.463(3)	0.13(4)	0.0030(9)
¹³¹ Xe 1136.13(7)	0.45(4)	0.0104(9)	¹³³ Cs 303.164(3)	0.055(6)	0.00125(14)
¹³¹ Xe 1140.84(11)	0.067(9)	0.00155(21)			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Dysprosium (Z=66), continued			Dysprosium (Z=66), continued		
¹⁶⁴ Dy 477.08(4)	15.8(5)	0.295(9)	¹⁶⁴ Dy 1646.80(15)	2.2(3)	0.041(6)
¹⁶⁴ Dy 496.931(5)	44.9(11)	0.837(21)	¹⁶⁴ Dy 1671.84(13)	3.6(5)	0.067(9)
¹⁶⁴ Dy 499.395(6)	13.0(10)	0.242(19)	¹⁶¹ Dy 1717.18(13)	3.0(4)	0.056(8)
¹⁶⁴ Dy 500.37(8)	10.3(5)	0.192(9)	¹⁶⁴ Dy 1722.27(13)	3.2(4)	0.060(8)
¹⁶⁴ Dy 500.587(6)	10(3)	0.19(6)	¹⁶⁴ Dy 1737.35(15)	3.8(4)	0.071(8)
¹⁶⁴ Dy 506.47(4)	6.4(4)	0.119(8)	¹⁶¹ Dy 1781.5(3)	3.5(6)	0.065(11)
¹⁶⁴ Dy 508.96(4)	9.5(6)	0.177(11)	¹⁶⁴ Dy 1806.00(25)	2.4(5)	0.045(9)
¹⁶⁴ Dy 519.05(7)	1.5(3)	0.028(6)	¹⁶¹ Dy 1823.7(7)	1.9(5)	0.035(9)
¹⁶⁴ Dy 524.41(6)	4.7(5)	0.088(9)	¹⁶⁴ Dy 1835.40(18)	3.2(6)	0.060(11)
¹⁶⁴ Dy 529.46(7)	3.0(10)	0.056(19)	¹⁶⁴ Dy 1866.28(13)	2.6(4)	0.048(8)
¹⁶⁴ Dy 529.54(8)	2.5(4)	0.047(8)	¹⁶⁴ Dy 2019.4(3)	2.5(5)	0.047(9)
¹⁶⁴ Dy 538.609(8)	69.2(19)	1.29(4)	¹⁶⁴ Dy 2091.58(11)	2.6(5)	0.048(9)
¹⁶⁴ Dy 546.54(4)	3.7(4)	0.069(8)	¹⁶¹ Dy 2110.01(16)	3.6(4)	0.067(8)
¹⁶⁴ Dy 556.932(7)	2.2(4)	0.041(8)	¹⁶⁴ Dy 2113.91(11)	4.0(4)	0.075(8)
¹⁶⁴ Dy 565.567(4)	5.1(5)	0.095(9)	¹⁶⁴ Dy 2164.34(11)	3.1(4)	0.058(8)
¹⁶⁴ Dy 569.53(7)	8.3(25)	0.15(5)	¹⁶⁴ Dy 2226.92(19)	2.7(5)	0.050(9)
¹⁶⁴ Dy 569.79(6)	9.7(5)	0.181(9)	¹⁶⁴ Dy 2242.3(3)	3.3(5)	0.062(9)
¹⁶¹ Dy 572.7(4)	2.2(9)	0.041(17)	¹⁶⁴ Dy 2259.3(3)	2.8(5)	0.052(9)
¹⁶¹ Dy 572.88(7)	1.65(12)	0.0308(22)	¹⁶⁴ Dy 2272.0(6)	3.6(7)	0.067(13)
¹⁶⁴ Dy 583.982(5)	24(7)	0.45(13)	¹⁶⁴ Dy 2305.5(3)	2.2(5)	0.041(9)
¹⁶⁴ Dy 596.71(4)	5.1(3)	0.095(6)	¹⁶⁴ Dy 2313.8(4)	7.2(6)	0.134(11)
¹⁶⁴ Dy 613.13(9)	2.5(3)	0.047(6)	¹⁶⁴ Dy 2369.89(24)	4.2(6)	0.078(11)
¹⁶¹ Dy 647.50(12)	3.11(21)	0.058(4)	¹⁶⁴ Dy 2412.2(4)	2.6(6)	0.048(11)
¹⁶³ Dy 673.71(4)	1.7(4)	0.032(8)	¹⁶⁴ Dy 2552.64(19)	5.3(6)	0.099(11)
¹⁶³ Dy 688.36(4)	4.7(4)	0.088(8)	¹⁶⁴ Dy 2593.02(19)	3.0(5)	0.056(9)
¹⁶¹ Dy 697.16(9)	3.3(3)	0.062(6)	¹⁶⁴ Dy 2606.94(19)	4.1(5)	0.076(9)
¹⁶¹ Dy 711.41(12)	2.28(22)	0.043(4)	¹⁶⁴ Dy 2635.0(3)	3.0(5)	0.056(9)
¹⁶³ Dy 754.75(4)	6.4(4)	0.119(8)	¹⁶² Dy 2660.1(4)	6.6(11)	0.123(21)
¹⁶³ Dy 761.76(4)	4.1(3)	0.076(6)	¹⁶⁴ Dy 2683.54(24)	2.4(5)	0.045(9)
¹⁶¹ Dy 795.27(8)	6.8(4)	0.127(8)	¹⁶⁴ Dy 2702.83(21)	6.9(22)	0.13(4)
¹⁶¹ Dy 807.46(7)	12.1(5)	0.226(9)	¹⁶⁴ Dy 2823.8(4)	1.7(5)	0.032(9)
¹⁶¹ Dy 842.48(22)	1.6(4)	0.030(8)	¹⁶⁴ Dy 2832.15(21)	1.9(5)	0.035(9)
¹⁶¹ Dy 842.5(4)	1.48(25)	0.028(5)	¹⁶⁴ Dy 2840.1(3)	3.8(5)	0.071(9)
¹⁶¹ Dy 882.27(6)	18.3(6)	0.341(11)	¹⁶⁴ Dy 2854.48(21)	4.0(5)	0.075(9)
¹⁶¹ Dy 888.13(7)	10.4(5)	0.194(9)	¹⁶⁴ Dy 2863.5(4)	5.1(5)	0.095(9)
¹⁶¹ Dy 917.16(10)	5.4(5)	0.101(9)	¹⁶⁴ Dy 2872.20(21)	4.5(5)	0.084(9)
¹⁶⁴ Dy 922.11(7)	1.6(6)	0.030(11)	¹⁶⁴ Dy 2931.8(3)	2.7(5)	0.050(9)
¹⁶¹ Dy 933.70(23)	3.1(7)	0.058(13)	¹⁶⁴ Dy 2950.37(19)	4.5(5)	0.084(9)
¹⁶⁴ Dy 933.94(8)	4.6(7)	0.086(13)	¹⁶⁴ Dy 2999.9(4)	1.7(4)	0.032(8)
¹⁶¹ Dy 944.40(7)	7.2(3)	0.134(6)	¹⁶⁴ Dy 3012.42(17)	7.8(5)	0.145(9)
¹⁶¹ Dy 976.83(13)	3.4(3)	0.063(6)	¹⁶⁴ Dy 3035.55(15)	10.9(6)	0.203(11)
¹⁶¹ Dy 979.98(9)	8.5(4)	0.159(8)	¹⁶⁴ Dy 3071.02(24)	3.8(5)	0.071(9)
¹⁶¹ Dy 994.64(7)	9.2(4)	0.172(8)	¹⁶⁴ Dy 3098.52(24)	2.1(4)	0.039(8)
¹⁶⁴ Dy 994.87(7)	5.6(17)	0.10(3)	¹⁶⁴ Dy 3105.83(21)	5.8(5)	0.108(9)
¹⁶¹ Dy 1008.42(22)	2.0(3)	0.037(6)	¹⁶⁴ Dy 3114.06(19)	7.4(6)	0.138(11)
¹⁶⁴ Dy 1018.35(8)	3.7(12)	0.069(22)	¹⁶⁴ Dy 3169.10(24)	3.3(4)	0.062(8)
¹⁶¹ Dy 1025.5(3)	1.7(4)	0.032(8)	¹⁶⁴ Dy 3198.3(3)	1.6(3)	0.030(6)
¹⁶¹ Dy 1058.41(9)	5.9(4)	0.110(8)	¹⁶⁴ Dy 3238.1(3)	4.7(5)	0.088(9)
¹⁶⁴ Dy 1059.63(9)	2.2(7)	0.041(13)	¹⁶⁴ Dy 3276.05(13)	6.1(5)	0.114(9)
¹⁶⁴ Dy 1064.18(9)	2.2(6)	0.041(11)	¹⁶⁴ Dy 3315.0(3)	3.0(4)	0.056(8)
¹⁶⁴ Dy 1074.59(9)	4.5(14)	0.08(3)	¹⁶⁴ Dy 3443.39(11)	10.6(16)	0.20(3)
¹⁶¹ Dy 1091.99(13)	2.7(4)	0.050(8)	¹⁶⁴ Dy 3537.9(3)	3.2(5)	0.060(9)
¹⁶¹ Dy 1108.53(10)	5.1(4)	0.095(8)	¹⁶⁴ Dy 3555.71(20)	4.7(5)	0.088(9)
¹⁶⁴ Dy 1110.06(9)	2.6(7)	0.048(13)	¹⁶⁴ Dy 3608.5(4)	3.1(4)	0.058(8)
¹⁶¹ Dy 1124.81(9)	4.0(3)	0.075(6)	¹⁶⁴ Dy 3628.2(3)	1.9(4)	0.035(8)
¹⁶¹ Dy 1129.40(9)	5.7(4)	0.106(8)	¹⁶⁴ Dy 3772.33(18)	3.1(4)	0.058(8)
¹⁶¹ Dy 1158.2(3)	2.1(4)	0.039(8)	¹⁶⁴ Dy 3819.95(15)	2.7(5)	0.050(9)
¹⁶¹ Dy 1185.0(3)	1.5(4)	0.028(8)	¹⁶⁴ Dy 3840.49(24)	4.9(6)	0.091(11)
¹⁶¹ Dy 1187.7(3)	1.6(4)	0.030(8)	¹⁶⁴ Dy 3885.46(13)	5.2(4)	0.097(8)
¹⁶¹ Dy 1195.37(12)	3.6(4)	0.067(8)	¹⁶⁴ Dy 3944.8(3)	2.2(3)	0.041(6)
¹⁶¹ Dy 1219.6(3)	2.7(10)	0.050(19)	¹⁶⁴ Dy 3960.93(15)	4.7(4)	0.088(8)
¹⁶⁴ Dy 1260.19(13)	2.0(6)	0.037(11)	¹⁶⁴ Dy 4067.73(9)	2.5(4)	0.047(8)
¹⁶¹ Dy 1260.66(21)	3.2(5)	0.060(9)	¹⁶⁴ Dy 4083.81(14)	4.3(4)	0.080(8)
¹⁶¹ Dy 1276.3(6)	1.9(4)	0.035(8)	¹⁶⁴ Dy 4123.97(8)	13.1(9)	0.244(17)
¹⁶¹ Dy 1276.78(12)	6.3(6)	0.117(11)	¹⁶⁴ Dy 4155.82(8)	2.1(3)	0.039(6)
¹⁶¹ Dy 1308.5(3)	1.7(4)	0.032(8)	¹⁶⁴ Dy 4459.45(8)	1.6(3)	0.030(6)
¹⁶¹ Dy 1316.7(5)	1.5(4)	0.028(8)	¹⁶⁴ Dy 4607.48(6)	1.9(4)	0.035(8)
¹⁶¹ Dy 1371.4(3)	2.4(4)	0.045(8)	¹⁶⁴ Dy 4612.84(7)	5.7(5)	0.106(9)
¹⁶⁴ Dy 1410.99(8)	4.6(5)	0.086(9)	¹⁶⁴ Dy 4635.84(5)	2.6(4)	0.048(8)
¹⁶⁴ Dy 1433.33(8)	1.9(4)	0.035(8)	¹⁶⁴ Dy 5110.77(3)	6.1(9)	0.114(17)
¹⁶⁴ Dy 1483.76(8)	3.6(4)	0.067(8)	¹⁶⁴ Dy 5142.29(3)	15.7(10)	0.293(19)
¹⁶¹ Dy 1573.95(23)	1.7(3)	0.032(6)	¹⁶⁴ Dy 5145.62(3)	8.4(24)	0.16(5)
¹⁶⁴ Dy 1596.37(15)	2.5(4)	0.047(8)	¹⁶⁴ Dy 5177.25(3)	6.6(5)	0.123(9)
¹⁶⁴ Dy 1604.4(3)	1.7(4)	0.032(8)	¹⁶¹ Dy 5450.27(25)	2.1(4)	0.039(8)
¹⁶⁴ Dy 1616.1(3)	1.5(4)	0.028(8)	¹⁶⁴ Dy 5557.26(3)	28.7(14)	0.54(3)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Erbiun (Z=68), continued			Thulium (Z=69), continued		
E γ -keV	$\sigma(E\gamma)$ -barns	k_0	E γ -keV	$\sigma(E\gamma)$ -barns	k_0
¹⁶⁷ Er 932.2660(20)	0.83(5)	0.0150(9)	¹⁶⁹ Tm 69.9880(10)	0.19(7)	0.0034(13)
¹⁶⁷ Er 965.9330(20)	0.83(5)	0.0150(9)	¹⁶⁹ Tm 75.83	0.94(8)	0.0169(14)
¹⁶⁷ Er 999.8150(20)	0.99(6)	0.0179(11)	¹⁶⁹ Tm 87.5210(10)	1.29(3)	0.0231(5)
¹⁶⁷ Er 1012.1810(20)	1.42(7)	0.0257(13)	¹⁶⁹ Tm 87.5700(10)	0.29(6)	0.0052(11)
¹⁶⁷ Er 1025.368(4)	0.97(6)	0.0176(11)	¹⁶⁹ Tm 89.905	0.116(21)	0.0021(4)
¹⁶⁷ Er 1144.133(3)	0.58(5)	0.0105(9)	¹⁶⁹ Tm 105.162	0.780(23)	0.0140(4)
¹⁶⁷ Er 1147.0040(20)	0.92(6)	0.0167(11)	¹⁶⁹ Tm 107.9560(10)	0.110(13)	0.00197(23)
¹⁶⁷ Er 1167.373(4)	1.98(8)	0.0359(14)	¹⁶⁹ Tm 111.0050(10)	0.327(16)	0.0059(3)
¹⁶⁷ Er 1173.577(4)	0.71(5)	0.0129(9)	¹⁶⁹ Tm 114.544	3.19(6)	0.0572(11)
¹⁶⁷ Er 1196.4640(20)	0.82(5)	0.0149(9)	¹⁶⁹ Tm 130.027	0.940(25)	0.0169(5)
¹⁶⁷ Er 1229.045(4)	0.63(5)	0.0114(9)	¹⁶⁹ Tm 144.4790(10)	1.2(4)	0.022(7)
¹⁶⁷ Er 1274.530(6)	0.69(10)	0.0125(18)	¹⁶⁹ Tm 144.48	5.96(11)	0.1069(20)
¹⁶⁷ Er 1276.2680(20)	0.73(11)	0.0132(20)	¹⁶⁹ Tm 149.7180(10)	7.11(12)	0.1275(22)
¹⁶⁷ Er 1277.6150(20)	2.82(16)	0.051(3)	¹⁶⁹ Tm 153.6680(10)	0.098(15)	0.0018(3)
¹⁶⁷ Er 1279.088(6)	0.97(13)	0.0176(24)	¹⁶⁹ Tm 156.0030(10)	0.119(17)	0.0021(3)
¹⁶⁷ Er 1310.022(3)	1.65(8)	0.0299(14)	¹⁶⁹ Tm 161.7200(10)	0.270(17)	0.0048(3)
¹⁶⁷ Er 1323.9270(20)	1.69(8)	0.0306(14)	¹⁶⁹ Tm 165.735	3.29(6)	0.0593(11)
¹⁶⁷ Er 1331.2870(20)	1.36(7)	0.0246(13)	¹⁶⁹ Tm 171.8550(10)	0.391(18)	0.0070(3)
¹⁶⁷ Er 1351.656(4)	1.94(9)	0.0351(16)	¹⁶⁹ Tm 176.5240(10)	0.34(3)	0.0061(5)
¹⁶⁷ Er 1353.805(6)	0.56(5)	0.0101(9)	¹⁶⁹ Tm 180.993	3.85(14)	0.0691(25)
¹⁶⁷ Er 1355.1(3)	0.94(12)	0.0170(22)	¹⁶⁹ Tm 198.2340(10)	0.094(21)	0.0017(4)
¹⁶⁷ Er 1392.181(4)	1.27(6)	0.0230(11)	¹⁶⁹ Tm 198.5260(10)	0.96(3)	0.0172(5)
¹⁶⁷ Er 1515.93(4)	0.57(5)	0.0103(9)	¹⁶⁹ Tm 204.448	8.72(19)	0.156(3)
¹⁶⁷ Er 1515.948(20)	0.72(12)	0.0130(22)	¹⁶⁹ Tm 204.7820(10)	0.25(7)	0.0045(13)
¹⁶⁷ Er 1581.18(6)	0.57(6)	0.0103(11)	¹⁶⁹ Tm 219.706	3.64(6)	0.0553(11)
¹⁶⁷ Er 1649.803(7)	0.58(6)	0.0105(11)	¹⁶⁹ Tm 231.8330(10)	0.60(3)	0.0108(5)
¹⁶⁷ Er 1767.00(3)	0.91(7)	0.0165(13)	¹⁶⁹ Tm 235.1890(10)	1.18(4)	0.0212(7)
¹⁶⁷ Er 1834.085(7)	1.45(9)	0.0263(16)	¹⁶⁹ Tm 237.2390(10)	5.52(10)	0.0990(18)
¹⁶⁷ Er 1835.690(4)	0.65(6)	0.0118(11)	¹⁶⁹ Tm 242.6220(10)	1.28(4)	0.0230(7)
¹⁶⁷ Er 1942.513(6)	0.88(7)	0.0159(13)	¹⁶⁹ Tm 256.4550(10)	0.096(15)	0.0017(3)
¹⁶⁷ Er 2046.97(3)	0.56(6)	0.0101(11)	¹⁶⁹ Tm 260.3410(10)	0.103(14)	0.00185(25)
¹⁶⁷ Er 2522.76(6)	0.59(9)	0.0107(16)	¹⁶⁹ Tm 266.8830(10)	0.134(15)	0.0024(3)
¹⁶⁷ Er 4628.7(3)	1.02(21)	0.018(4)	¹⁶⁹ Tm 268.5510(10)	0.210(17)	0.0038(3)
¹⁶⁷ Er 4643.4(3)	1.7(4)	0.031(7)	¹⁶⁹ Tm 288.1840(20)	0.172(10)	0.00309(18)
¹⁶⁷ Er 4647.4(3)	0.87(18)	0.016(3)	¹⁶⁹ Tm 303.6180(20)	0.137(13)	0.00246(23)
¹⁶⁷ Er 4653.2(3)	1.18(24)	0.021(4)	¹⁶⁹ Tm 311.0190(10)	2.50(5)	0.0448(9)
¹⁶⁷ Er 4671.4(3)	0.95(20)	0.017(4)	¹⁶⁹ Tm 342.7130(10)	0.14(3)	0.0025(5)
¹⁶⁷ Er 4715.4(3)	0.98(20)	0.018(4)	¹⁶⁹ Tm 343.5520(10)	0.360(16)	0.0065(3)
¹⁶⁷ Er 4745.4(3)	1.3(3)	0.024(5)	¹⁶⁹ Tm 352.9890(20)	0.547(23)	0.0098(4)
¹⁶⁷ Er 4752.2(3)	0.58(12)	0.0105(22)	¹⁶⁹ Tm 359.3570(20)	0.14(3)	0.0025(5)
¹⁶⁷ Er 4759.5(3)	0.74(15)	0.013(3)	¹⁶⁹ Tm 360.8270(20)	0.089(24)	0.0016(4)
¹⁶⁷ Er 4800.76(7)	1.4(4)	0.025(7)	¹⁶⁹ Tm 367.5560(20)	0.185(18)	0.0033(3)
¹⁶⁸ Er 4908.73(17)	<i>0.41(14)</i>	<i>0.0074(25)</i>	¹⁶⁹ Tm 370.5220(20)	0.16(3)	0.0029(5)
¹⁶⁷ Er 4921.42(22)	0.61(6)	0.0111(11)	¹⁶⁹ Tm 371.1720(20)	0.153(22)	0.0027(4)
¹⁶⁷ Er 5001.79(6)	0.88(25)	0.016(5)	¹⁶⁹ Tm 384.0790(20)	1.95(5)	0.0350(9)
¹⁶⁷ Er 5031.73(19)	0.84(24)	0.015(4)	¹⁶⁹ Tm 384.2850(20)	0.19(4)	0.0034(7)
¹⁶⁷ Er 5114.2(3)	1.02(24)	0.018(4)	¹⁶⁹ Tm 388.1810(20)	0.099(16)	0.0018(3)
¹⁶⁷ Er 5169.82(18)	0.56(5)	0.0101(9)	¹⁶⁹ Tm 396.758(4)	0.099(10)	0.00178(18)
¹⁶⁷ Er 5200.0(3)	0.67(16)	0.012(3)	¹⁶⁹ Tm 400.1150(20)	0.717(19)	0.0129(3)
¹⁶⁷ Er 5213.15(15)	1.4(3)	0.025(5)	¹⁶⁹ Tm 400.6640(20)	0.20(5)	0.0036(9)
¹⁶⁷ Er 5292.80(6)	0.63(7)	0.0114(13)	¹⁶⁹ Tm 408.3570(10)	0.239(13)	0.00429(23)
¹⁶⁷ Er 5297.19(3)	0.6(3)	0.011(5)	¹⁶⁹ Tm 411.5060(20)	2.37(5)	0.0425(9)
¹⁶⁷ Er 5359.62(5)	0.62(7)	0.0112(13)	¹⁶⁹ Tm 413.1330(10)	0.162(17)	0.0029(3)
¹⁶⁷ Er 5372.79(6)	0.9(4)	0.016(7)	¹⁶⁹ Tm 424.6940(20)	0.556(25)	0.0100(5)
¹⁶⁷ Er 5378.65(17)	0.8(4)	0.014(7)	¹⁶⁹ Tm 426.783(3)	0.186(18)	0.0033(3)
¹⁶⁷ Er 5406.02(9)	0.8(4)	0.014(7)	¹⁶⁹ Tm 429.0390(20)	0.308(24)	0.0055(4)
¹⁶⁷ Er 5468.71(3)	0.73(15)	0.013(3)	¹⁶⁹ Tm 440.5100(20)	0.13(3)	0.0023(5)
¹⁶⁷ Er 5508.66(3)	0.66(14)	0.0120(25)	¹⁶⁹ Tm 442.1490(10)	0.51(4)	0.0091(7)
¹⁶⁷ Er 5866.25(3)	0.77(16)	0.014(3)	¹⁶⁹ Tm 446.328(3)	1.62(4)	0.0291(7)
¹⁶⁷ Er 5878.24(3)	0.78(7)	0.0141(13)	¹⁶⁹ Tm 454.2720(20)	0.295(20)	0.0053(4)
¹⁶⁷ Er 5943.28(3)	0.95(20)	0.017(4)	¹⁶⁹ Tm 456.0460(10)	1.16(4)	0.0208(7)
¹⁶⁷ Er 5950.86(3)	0.87(18)	0.016(3)	¹⁶⁹ Tm 457.4070(10)	0.48(12)	0.0086(22)
¹⁶⁷ Er 6137.87(3)	0.57(6)	0.0103(11)	¹⁶⁹ Tm 457.4100(20)	0.557(25)	0.0100(5)
¹⁶⁷ Er 6155.99(3)	1.5(3)	0.027(5)	¹⁶⁹ Tm 468.4740(20)	0.45(4)	0.0081(7)
¹⁶⁷ Er 6201.88(3)	0.73(15)	0.013(3)	¹⁶⁹ Tm 468.7760(20)	0.41(8)	0.0074(14)
¹⁶⁶ Er 6228.54(18)	1.41(15)	0.026(3)	¹⁶⁹ Tm 472.6610(10)	0.60(5)	0.0108(9)
¹⁶⁷ Er 6229.62(3)	1.54(9)	0.0279(16)	¹⁶⁹ Tm 473.5790(10)	0.15(4)	0.0027(7)
¹⁶⁷ Er 6360.23(3)	1.3(3)	0.024(5)	¹⁶⁹ Tm 477.027(4)	0.240(25)	0.0043(5)
¹⁶⁷ Er 6677.27(3)	1.02(6)	0.0185(11)	¹⁶⁹ Tm 481.3490(20)	0.109(22)	0.0020(4)
Thulium (Z=69), At. Wt.=168.93421(2), $\sigma_\gamma=105.0(20)$			¹⁶⁹ Tm 485.210(4)	0.140(22)	0.0025(4)
¹⁶⁹ Tm 38.713	0.279(6)	0.00500(11)	¹⁶⁹ Tm 496.5720(20)	0.80(3)	0.0144(5)
¹⁶⁹ Tm 63.9550(20)	0.17(8)	0.0030(14)	¹⁶⁹ Tm 499.0260(20)	0.40(8)	0.0072(14)
¹⁶⁹ Tm 66.098	0.51(10)	0.0091(18)	¹⁶⁹ Tm 499.5560(20)	0.88(3)	0.0158(5)
¹⁶⁹ Tm 68.649	1.75(23)	0.031(4)	¹⁶⁹ Tm 505.018(7)	0.90(3)	0.0161(5)
			¹⁶⁹ Tm 505.341(9)	0.84(3)	0.0151(5)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Thulium (Z=69), continued			Thulium (Z=69), continued		
¹⁶⁹ Tm 512.1370(20)	1.96(5)	0.0352(9)	¹⁶⁹ Tm 987.453(3)	0.30(3)	0.0054(5)
¹⁶⁹ Tm 512.6080(20)	0.108(22)	0.0019(4)	¹⁶⁹ Tm 995.714(4)	0.106(23)	0.0019(4)
¹⁶⁹ Tm 517.053(4)	0.15(3)	0.0027(5)	¹⁶⁹ Tm 998.253(4)	0.200(25)	0.0036(5)
¹⁶⁹ Tm 523.3590(20)	0.48(3)	0.0086(5)	¹⁶⁹ Tm 1000.898(10)	0.23(4)	0.0041(7)
¹⁶⁹ Tm 532.4280(20)	0.59(3)	0.0106(5)	¹⁶⁹ Tm 1018.431(10)	0.28(6)	0.0050(11)
¹⁶⁹ Tm 532.858(3)	0.12(3)	0.0022(5)	¹⁶⁹ Tm 1027.820(12)	0.26(4)	0.0047(7)
¹⁶⁹ Tm 535.8280(10)	1.18(4)	0.0212(7)	¹⁶⁹ Tm 1040.1330(10)	0.25(7)	0.0045(13)
¹⁶⁹ Tm 537.9910(20)	1.00(4)	0.0179(7)	¹⁶⁹ Tm 1043.108(12)	0.19(4)	0.0034(7)
¹⁶⁹ Tm 551.5140(20)	1.29(25)	0.023(5)	¹⁶⁹ Tm 1045.353(12)	0.18(4)	0.0032(7)
¹⁶⁹ Tm 562.4440(20)	0.85(3)	0.0152(5)	¹⁶⁹ Tm 1061.868(14)	0.49(10)	0.0088(18)
¹⁶⁹ Tm 565.2770(20)	1.58(4)	0.0283(7)	¹⁶⁹ Tm 1070.969(6)	0.30(6)	0.0054(11)
¹⁶⁹ Tm 569.1730(20)	1.02(3)	0.0183(5)	¹⁶⁹ Tm 1101.996(3)	0.10(3)	0.0018(5)
¹⁶⁹ Tm 569.5440(20)	0.44(9)	0.0079(16)	¹⁶⁹ Tm 1140.192(4)	0.62(12)	0.0111(22)
¹⁶⁹ Tm 573.017(4)	0.30(9)	0.0054(16)	¹⁶⁹ Tm 1154.112(12)	0.18(4)	0.0032(7)
¹⁶⁹ Tm 581.2690(20)	0.32(7)	0.0057(13)	¹⁶⁹ Tm 1171.966(11)	0.14(3)	0.0025(5)
¹⁶⁹ Tm 585.1540(10)	0.60(4)	0.0108(7)	¹⁶⁹ Tm 1178.905(4)	0.56(4)	0.0100(7)
¹⁶⁹ Tm 589.0850(10)	0.58(10)	0.0104(18)	¹⁶⁹ Tm 1184.563(14)	0.20(3)	0.0036(5)
¹⁶⁹ Tm 590.2270(20)	1.27(10)	0.0228(18)	¹⁶⁹ Tm 1210.678(11)	0.36(7)	0.0065(13)
¹⁶⁹ Tm 599.1890(20)	0.155(25)	0.0028(5)	¹⁶⁹ Tm 1226.345(12)	0.120(22)	0.0022(4)
¹⁶⁹ Tm 601.9780(20)	0.13(3)	0.0023(5)	¹⁶⁹ Tm 1238.136(10)	0.107(21)	0.0019(4)
¹⁶⁹ Tm 603.9900(20)	1.40(5)	0.0251(9)	¹⁶⁹ Tm 1265.057(12)	0.210(24)	0.0038(4)
¹⁶⁹ Tm 610.0310(20)	0.18(4)	0.0032(7)	¹⁶⁹ Tm 1354.71(7)	0.128(23)	0.0023(4)
¹⁶⁹ Tm 611.6590(10)	0.83(4)	0.0149(7)	¹⁶⁹ Tm 4641.4(4)	0.32(3)	0.0057(5)
¹⁶⁹ Tm 619.423(3)	0.23(4)	0.0041(7)	¹⁶⁹ Tm 4732.6(4)	0.58(5)	0.0104(9)
¹⁶⁹ Tm 621.812(3)	0.12(3)	0.0022(5)	¹⁶⁹ Tm 4773.8(8)	0.16(3)	0.0029(5)
¹⁶⁹ Tm 623.1420(10)	0.27(4)	0.0048(7)	¹⁶⁹ Tm 4922.1(5)	0.26(3)	0.0047(5)
¹⁶⁹ Tm 632.4310(20)	0.74(3)	0.0133(5)	¹⁶⁹ Tm 4987.0(6)	0.16(3)	0.0029(5)
¹⁶⁹ Tm 637.900(3)	1.25(4)	0.0224(7)	¹⁶⁹ Tm 5061.6(8)	0.103(21)	0.0018(4)
¹⁶⁹ Tm 637.9020(20)	1.8(3)	0.032(5)	¹⁶⁹ Tm 5075.3(5)	0.39(4)	0.0070(7)
¹⁶⁹ Tm 640.7790(20)	0.70(3)	0.0126(5)	¹⁶⁹ Tm 5124.1(5)	0.28(4)	0.0050(7)
¹⁶⁹ Tm 648.7440(20)	0.24(4)	0.0043(7)	¹⁶⁹ Tm 5149.1(6)	0.31(4)	0.0056(7)
¹⁶⁹ Tm 650.3720(10)	1.45(5)	0.0260(9)	¹⁶⁹ Tm 5158.2(6)	0.47(5)	0.0084(9)
¹⁶⁹ Tm 658.913(5)	1.56(5)	0.0280(9)	¹⁶⁹ Tm 5216.5(9)	0.092(25)	0.0017(5)
¹⁶⁹ Tm 664.9160(10)	0.30(4)	0.0054(7)	¹⁶⁹ Tm 5326.80(11)	0.18(3)	0.0032(5)
¹⁶⁹ Tm 669.656(4)	0.31(4)	0.0056(7)	¹⁶⁹ Tm 5353.72(11)	0.19(3)	0.0034(5)
¹⁶⁹ Tm 670.753(7)	0.12(4)	0.0022(7)	¹⁶⁹ Tm 5381.18(11)	0.18(3)	0.0032(5)
¹⁶⁹ Tm 679.5820(20)	0.15(3)	0.0027(5)	¹⁶⁹ Tm 5399.03(11)	0.143(25)	0.0026(5)
¹⁶⁹ Tm 680.5480(20)	0.41(3)	0.0074(5)	¹⁶⁹ Tm 5412.95(11)	0.39(5)	0.0070(9)
¹⁶⁹ Tm 693.2840(10)	0.30(3)	0.0054(5)	¹⁶⁹ Tm 5423.08(11)	0.24(3)	0.0043(5)
¹⁶⁹ Tm 694.085(13)	~0.1	~0.002	¹⁶⁹ Tm 5431.26(11)	0.23(3)	0.0041(5)
¹⁶⁹ Tm 703.6280(10)	1.32(4)	0.0237(7)	¹⁶⁹ Tm 5443.88(11)	0.150(25)	0.0027(5)
¹⁶⁹ Tm 707.8490(10)	0.50(10)	0.0090(18)	¹⁶⁹ Tm 5451.91(11)	0.148(25)	0.0027(5)
¹⁶⁹ Tm 709.381(3)	0.107(21)	0.0019(4)	¹⁶⁹ Tm 5513.01(11)	0.16(5)	0.0029(9)
¹⁶⁹ Tm 710.7670(20)	0.60(3)	0.0108(5)	¹⁶⁹ Tm 5683.40(11)	0.104(21)	0.0019(4)
¹⁶⁹ Tm 711.1330(20)	0.33(7)	0.0059(13)	¹⁶⁹ Tm 5728.48(11)	0.26(3)	0.0047(5)
¹⁶⁹ Tm 714.433(5)	0.089(20)	0.0016(4)	¹⁶⁹ Tm 5731.36(11)	1.17(22)	0.021(4)
¹⁶⁹ Tm 719.2610(20)	1.01(3)	0.0181(5)	¹⁶⁹ Tm 5737.51(11)	1.42(7)	0.0255(13)
¹⁶⁹ Tm 720.8210(20)	0.57(3)	0.0102(5)	¹⁶⁹ Tm 5809.69(11)	0.147(20)	0.0026(4)
¹⁶⁹ Tm 724.585(3)	0.68(3)	0.0122(5)	¹⁶⁹ Tm 5858.03(11)	0.41(4)	0.0074(7)
¹⁶⁹ Tm 739.794(4)	0.108(18)	0.0019(3)	¹⁶⁹ Tm 5898.56(11)	0.35(4)	0.0063(7)
¹⁶⁹ Tm 744.765(7)	0.124(19)	0.0022(3)	¹⁶⁹ Tm 5908.27(11)	0.49(4)	0.0088(7)
¹⁶⁹ Tm 748.2310(20)	0.102(20)	0.0018(4)	¹⁶⁹ Tm 5941.47(11)	1.51(7)	0.0271(13)
¹⁶⁹ Tm 781.278(7)	0.20(4)	0.0036(7)	¹⁶⁹ Tm 5943.09(11)	1.03(20)	0.018(4)
¹⁶⁹ Tm 781.279(7)	0.19(4)	0.0034(7)	¹⁶⁹ Tm 6001.61(11)	0.99(10)	0.0178(18)
¹⁶⁹ Tm 781.832(4)	0.090(20)	0.0016(4)	¹⁶⁹ Tm 6354.59(11)	0.42(4)	0.0075(7)
¹⁶⁹ Tm 784.900(4)	0.18(4)	0.0032(7)	¹⁶⁹ Tm 6387.37(11)	1.48(7)	0.0265(13)
¹⁶⁹ Tm 790.216(4)	0.17(3)	0.0030(5)	¹⁶⁹ Tm 6442.10(11)	0.47(3)	0.0084(5)
¹⁶⁹ Tm 800.424(6)	0.122(23)	0.0022(4)	¹⁶⁹ Tm 6553.10(11)	0.65(13)	0.0117(23)
¹⁶⁹ Tm 810.7260(20)	0.157(21)	0.0028(4)	Ytterbium (Z=70), At. Wt.=173.04(3), $\sigma_{\gamma}=34.9(8)$		
¹⁶⁹ Tm 815.624(4)	0.76(3)	0.0136(5)	¹⁷⁰ Yb 19.3940(20)	0.021(5)	0.00037(9)
¹⁶⁹ Tm 818.5070(20)	0.233(20)	0.0042(4)	¹⁷⁴ Yb 41.2180(20)	1.1(3)	0.019(5)
¹⁶⁹ Tm 824.0610(20)	0.318(22)	0.0057(4)	¹⁷⁴ Yb 46.7510(20)	0.25(8)	0.0044(14)
¹⁶⁹ Tm 844.677(9)	0.147(18)	0.0026(3)	¹⁶⁸ Yb 62.7190(10)	0.064(12)	0.00112(21)
¹⁶⁹ Tm 854.337(4)	1.41(4)	0.0253(7)	¹⁷⁰ Yb 66.720(10)	0.024(6)	0.00042(11)
¹⁶⁹ Tm 866.522(6)	0.353(24)	0.0063(4)	¹⁶⁸ Yb 75.0400(10)	0.015(3)	0.00026(5)
¹⁶⁹ Tm 869.401(4)	0.235(23)	0.0042(4)	¹⁷³ Yb 76.99(6)	0.40(4)	0.0070(7)
¹⁶⁹ Tm 886.5560(20)	0.230(24)	0.0041(4)	¹⁷¹ Yb 78.7430(10)	0.67(10)	0.0117(18)
¹⁶⁹ Tm 890.047(3)	0.17(4)	0.0030(7)	¹⁷³ Yb 86.11(7)	0.164(18)	0.0029(3)
¹⁶⁹ Tm 920.507(9)	0.113(24)	0.0020(4)	¹⁶⁸ Yb 87.3840(10)	0.016(3)	0.00028(5)
¹⁶⁹ Tm 928.265(4)	0.37(3)	0.0066(5)	¹⁷⁴ Yb 87.9690(20)	0.26(6)	0.0046(11)
¹⁶⁹ Tm 943.522(4)	0.24(3)	0.0043(5)	¹⁷³ Yb 88.26(11)	0.044(8)	0.00077(14)
¹⁶⁹ Tm 956.145(3)	0.33(6)	0.0059(11)	¹⁷⁴ Yb 89.9570(20)	0.066(16)	0.0012(3)
¹⁶⁹ Tm 959.201(4)	0.28(3)	0.0050(5)	¹⁷⁴ Yb 95.2730(20)	0.20(5)	0.0035(9)
¹⁶⁹ Tm 959.220(9)	0.45(9)	0.0081(16)	¹⁷⁴ Yb 100.759(4)	0.019(7)	0.00033(12)
¹⁶⁹ Tm 973.121(12)	0.10(4)	0.0018(7)			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Ytterbium (Z=70), continued			Ytterbium (Z=70), continued		
E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
¹⁷³ Yb 102.60(5)	0.44(5)	0.0077(9)	¹⁷⁴ Yb 602.841(8)	0.072(10)	0.00126(18)
¹⁷⁴ Yb 104.5260(20)	0.43(11)	0.0075(19)	¹⁷⁴ Yb 618.09(4)	0.020(4)	0.00035(7)
¹⁷⁴ Yb 113.805(4)d	0.417(14)	0.00730[<0.1%]	¹⁶⁸ Yb 622.127(11)	0.034(6)	0.00060(11)
¹⁷⁶ Yb 125.23(18)	0.007(3)	$1.2(5)\times 10^{-4}$	¹⁶⁸ Yb 623.026(7)	0.035(6)	0.00061(11)
¹⁷³ Yb 138.27(6)	0.058(7)	0.00102(12)	¹⁷⁴ Yb 624.692(9)	0.026(4)	0.00046(7)
¹⁷⁴ Yb 142.0240(20)	0.032(8)	0.00056(14)	¹⁷⁴ Yb 635.22(4)	0.078(13)	0.00137(23)
¹⁷⁴ Yb 142.478(3)	0.021(5)	0.00037(9)	¹⁶⁸ Yb 635.348(7)	0.103(17)	0.0018(3)
¹⁶⁸ Yb 144.5760(10)	0.016(3)	0.00028(5)	¹⁶⁸ Yb 635.418(7)	0.103(17)	0.0018(3)
¹⁷³ Yb 148.72(9)	0.031(5)	0.00054(9)	¹⁷⁴ Yb 639.261(9)	1.43(17)	0.025(3)
¹⁶⁸ Yb 156.8980(10)	0.038(7)	0.00067(12)	¹⁷⁴ Yb 657.441(11)	0.031(8)	0.00054(14)
¹⁷⁴ Yb 163.012(5)	0.132(25)	0.0023(4)	¹⁶⁸ Yb 660.180(11)	0.016(3)	0.00028(5)
¹⁷⁴ Yb 172.167(4)	0.118(22)	0.0021(4)	¹⁷³ Yb 661.5(3)	0.024(6)	0.00042(11)
¹⁷³ Yb 175.30(5)	0.58(6)	0.0102(11)	¹⁷⁰ Yb 669.95(7)	0.120(15)	0.0012(3)
¹⁷¹ Yb 181.529(3)	0.53(6)	0.0093(11)	¹⁷⁴ Yb 680.17(4)	0.034(6)	0.00060(11)
¹⁶⁸ Yb 191.2140(10)	0.22(4)	0.0039(7)	¹⁷⁴ Yb 680.67(14)	0.031(7)	0.00054(12)
¹⁷³ Yb 198.29(12)	0.023(4)	0.00040(7)	¹⁷³ Yb 684.74(10)	0.052(8)	0.00091(14)
¹⁷³ Yb 223.00(8)	0.029(4)	0.00051(7)	¹⁷³ Yb 689.8(4)	0.015(5)	0.00026(9)
¹⁷⁴ Yb 231.502(6)	0.060(8)	0.00105(14)	¹⁶⁸ Yb 690.968(10)	0.037(6)	0.00065(11)
¹⁷⁴ Yb 232.435(3)	0.025(4)	0.00044(7)	¹⁷⁴ Yb 697.29(4)	0.034(8)	0.00060(14)
¹⁷³ Yb 243.68(19)	0.018(4)	0.00032(7)	¹⁷⁰ Yb 698.36(11)	0.052(7)	0.00091(12)
¹⁷⁴ Yb 246.778(14)	0.024(7)	0.00042(12)	¹⁷⁴ Yb 707.45(4)	0.121(19)	0.0021(3)
¹⁷⁴ Yb 255.338(5)	0.033(10)	0.00058(18)	¹⁶⁸ Yb 719.969(22)	0.141(15)	0.0025(3)
¹⁷⁴ Yb 267.538(5)	0.073(10)	0.00128(18)	¹⁷⁴ Yb 725.975(21)	0.015(5)	0.00026(9)
¹⁷³ Yb 274.90(7)	0.044(6)	0.00077(11)	¹⁶⁸ Yb 726.422(11)	0.049(6)	0.00086(11)
¹⁷⁴ Yb 282.522(14)d	0.666(22)	0.0117[<0.1%]	¹⁷⁴ Yb 729.218(9)	0.128(16)	0.00121(16)
¹⁷¹ Yb 287.138(3)	0.062(11)	0.00109(19)	¹⁷⁴ Yb 740.17(5)	0.038(11)	0.00067(19)
¹⁷⁴ Yb 288.626(17)	0.016(3)	0.00028(5)	¹⁷⁴ Yb 742.0(4)	0.076(12)	0.00133(21)
¹⁷⁴ Yb 311.276(5)	0.26(4)	0.0046(7)	¹⁶⁸ Yb 761.850(10)	0.039(7)	0.00068(12)
¹⁷³ Yb 341.27(16)	0.026(5)	0.00046(9)	¹⁷³ Yb 762.65(8)	0.069(9)	0.00121(16)
¹⁷⁴ Yb 363.938(6)	0.80(12)	0.0140(21)	¹⁷⁴ Yb 767.169(9)	0.151(25)	0.0026(4)
¹⁶⁸ Yb 378.616(3)	0.033(6)	0.00058(11)	¹⁷⁰ Yb 774.42(9)	0.042(6)	0.00074(11)
¹⁷⁴ Yb 389.422(5)	0.032(5)	0.00056(9)	¹⁷⁴ Yb 800.409(16)	0.111(16)	0.0019(3)
¹⁷⁴ Yb 392.114(11)	0.097(12)	0.00170(21)	¹⁷⁴ Yb 811.427(9)	0.92(16)	0.016(3)
¹⁷⁴ Yb 396.329(20)d	1.42(5)	0.0249[<0.1%]	¹⁷⁴ Yb 812.019(11)	0.10(3)	0.0018(5)
¹⁷² Yb 399.17(4)	0.111(12)	0.00194(21)	¹⁷⁴ Yb 816.14(4)	0.132(21)	0.0023(4)
¹⁷⁴ Yb 400.996(15)	0.015(4)	0.00026(7)	¹⁷⁴ Yb 825.22(7)	0.154(24)	0.0027(4)
¹⁷⁴ Yb 405.156(6)	0.040(6)	0.00070(11)	¹⁶⁸ Yb 827.193(11)	0.023(4)	0.00040(7)
¹⁷⁴ Yb 406.05(14)	0.111(14)	0.00194(25)	¹⁷⁴ Yb 841.627(16)	0.138(17)	0.0024(3)
¹⁷⁴ Yb 406.548(5)	0.118(18)	0.0021(3)	¹⁷⁴ Yb 852.951(20)	0.049(13)	0.00086(23)
¹⁷³ Yb 411.48(11)	0.021(4)	0.00037(7)	¹⁷¹ Yb 854.504(22)	0.020(4)	0.00035(7)
¹⁷⁴ Yb 423.219(11)	0.045(7)	0.00079(12)	¹⁷¹ Yb 857.621(7)	0.208(25)	0.0036(4)
¹⁷⁴ Yb 428.613(12)	0.61(7)	0.0107(12)	¹⁷⁴ Yb 858.05(5)	0.045(10)	0.00079(18)
¹⁷⁴ Yb 436.173(5)	0.52(6)	0.0091(11)	¹⁷⁴ Yb 866.027(11)	0.017(7)	0.00030(12)
¹⁷⁴ Yb 436.472(16)	0.037(8)	0.00065(14)	¹⁷⁴ Yb 869.60(4)	0.100(18)	0.0018(3)
¹⁷⁴ Yb 452.80(14)	0.019(3)	0.00033(5)	¹⁷⁰ Yb 869.7(15)	0.026(6)	0.00046(11)
¹⁷⁴ Yb 453.299(6)	0.031(6)	0.00054(11)	¹⁷⁴ Yb 871.695(9)	0.24(4)	0.0042(7)
¹⁷⁴ Yb 465.033(11)	0.06(4)	0.0011(7)	¹⁷⁴ Yb 894.47(5)	0.066(13)	0.00116(23)
¹⁷⁴ Yb 468.079(19)	0.022(4)	0.00039(7)	¹⁷⁴ Yb 905.0(4)	0.045(12)	0.00079(21)
¹⁷⁴ Yb 476.606(11)	0.015(4)	0.00026(7)	¹⁷⁰ Yb 906.15(14)	0.040(7)	0.00070(12)
¹⁷⁴ Yb 476.643(8)	0.015(4)	0.00026(7)	¹⁷¹ Yb 912.145(9)	0.049(8)	0.00086(14)
¹⁷⁴ Yb 477.391(5)	0.75(8)	0.0131(14)	¹⁷⁰ Yb 923.4(3)	0.019(6)	0.00033(11)
¹⁷⁴ Yb 482.071(11)	0.23(3)	0.0040(5)	¹⁷⁴ Yb 941.22(5)	0.082(15)	0.0014(3)
¹⁷¹ Yb 490.444(8)	0.0172(24)	0.00030(4)	¹⁷⁴ Yb 945.21(4)	0.069(15)	0.0012(3)
¹⁷⁴ Yb 496.414(11)	0.023(7)	0.00040(12)	¹⁷⁴ Yb 947.01(23)	0.076(12)	0.00133(21)
¹⁷⁴ Yb 497.717(10)	0.022(5)	0.00039(9)	¹⁷⁴ Yb 953.996(11)	0.095(24)	0.0017(4)
¹⁷⁴ Yb 498.315(9)	0.076(11)	0.00133(19)	¹⁷⁴ Yb 957.477(20)	0.017(7)	0.00030(12)
¹⁷⁴ Yb 505.05(5)	0.030(8)	0.00053(14)	¹⁷⁴ Yb 960.34(4)	0.015(7)	0.00026(12)
¹⁷⁴ Yb 511.784(11)	0.34(5)	0.0060(9)	¹⁷¹ Yb 961.489(8)	0.120(17)	0.0021(3)
¹⁷⁴ Yb 514.868(7)d	9.0(9)	0.158[100%]	¹⁷⁰ Yb 963.15(9)	0.117(14)	0.00205(25)
¹⁷⁴ Yb 518.491(11)	0.037(9)	0.00065(16)	¹⁷¹ Yb 964.197(10)	0.229(25)	0.0040(4)
¹⁷¹ Yb 528.289(7)	0.024(3)	0.00042(5)	¹⁷⁴ Yb 982.44(5)	0.129(23)	0.0023(4)
¹⁷⁴ Yb 534.735(9)	0.50(6)	0.0088(11)	¹⁷⁴ Yb 988.22(4)	0.088(19)	0.0015(3)
¹⁷⁴ Yb 548.841(12)	0.020(7)	0.00035(12)	¹⁷⁰ Yb 990.18(15)	0.051(11)	0.00089(19)
¹⁷⁴ Yb 553.002(11)	0.091(13)	0.00159(23)	¹⁷¹ Yb 995.79(4)	0.020(3)	0.00035(5)
¹⁷⁴ Yb 556.090(8)	0.066(11)	0.00116(19)	¹⁷⁴ Yb 1005.49(23)	0.033(10)	0.00058(18)
¹⁷¹ Yb 558.935(8)	0.020(3)	0.00035(5)	¹⁷⁴ Yb 1006.00(25)	0.054(17)	0.0009(3)
¹⁷⁴ Yb 565.242(11)	0.039(8)	0.00068(14)	¹⁷⁴ Yb 1009.5(4)	0.082(17)	0.0014(3)
¹⁷³ Yb 570.30(19)	0.028(6)	0.00049(11)	¹⁷¹ Yb 1021.4(3)	0.0182(25)	0.00032(4)
¹⁷⁴ Yb 571.915(8)	0.047(7)	0.00082(12)	¹⁷⁴ Yb 1022.62(23)	0.035(13)	0.00061(23)
¹⁶⁸ Yb 572.700(7)	0.049(8)	0.00086(14)	¹⁷¹ Yb 1026.315(17)	0.0151(19)	0.00026(3)
¹⁶⁸ Yb 576.398(10)	0.024(4)	0.00042(7)	¹⁷¹ Yb 1039.150(7)	0.22(3)	0.0039(5)
¹⁷¹ Yb 576.4(3)	0.020(3)	0.00035(5)	¹⁷³ Yb 1055.83(18)	0.037(7)	0.00065(12)
¹⁷⁴ Yb 577.28(5)	0.046(8)	0.00081(14)	¹⁷¹ Yb 1070.475(15)	0.025(3)	0.00044(5)
¹⁶⁸ Yb 590.695(10)	0.090(15)	0.0016(3)	¹⁷¹ Yb 1076.246(6)	0.52(6)	0.0091(11)
¹⁷¹ Yb 602.469(5)	0.030(4)	0.00053(7)	¹⁷¹ Yb 1093.674(9)	0.24(3)	0.0042(5)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Ytterbium (Z=70), continued			Ytterbium (Z=70), continued		
¹⁷⁰ Yb 1099.82(19)	0.040(7)	0.00070(12)	¹⁷¹ Yb 2115.56(4)	0.039(7)	0.00068(12)
¹⁷⁴ Yb 1115.5(3)	0.11(3)	0.0019(5)	¹⁷¹ Yb 2133.85(7)	0.043(6)	0.00075(11)
¹⁷¹ Yb 1117.892(7)	0.086(14)	0.00151(25)	¹⁷³ Yb 2171.4(3)	0.059(12)	0.00103(21)
¹⁷¹ Yb 1119.780(8)	0.46(6)	0.0081(11)	¹⁷¹ Yb 2195.09(5)	0.066(11)	0.00116(19)
¹⁷⁴ Yb 1122.3(10)	0.09(3)	0.0016(5)	¹⁷¹ Yb 2234.17(10)	0.042(11)	0.00074(19)
¹⁷³ Yb 1129.81(17)	0.128(17)	0.0022(3)	¹⁷¹ Yb 2238.19(3)	0.052(12)	0.00091(21)
¹⁷⁰ Yb 1138.9(3)	0.042(13)	0.00074(23)	¹⁷¹ Yb 2263.11(3)	0.042(11)	0.00074(19)
¹⁷¹ Yb 1143.017(8)	0.106(13)	0.00186(23)	¹⁷¹ Yb 2296.47(4)	0.035(7)	0.00061(12)
¹⁷¹ Yb 1152.16(5)	0.021(3)	0.00037(5)	¹⁷¹ Yb 2327.57(8)	0.094(19)	0.0016(3)
¹⁷¹ Yb 1154.989(6)	0.099(13)	0.00173(23)	¹⁷³ Yb 2388.7(4)	0.036(10)	0.00063(18)
¹⁷⁴ Yb 1187.7(3)	0.054(17)	0.0009(3)	¹⁷¹ Yb 2401.37(3)	0.20(3)	0.0035(5)
¹⁶⁸ Yb 1207.44(7)	0.018(4)	0.00032(7)	¹⁷⁴ Yb 3632.3(10)	0.40(10)	0.0070(18)
¹⁶⁸ Yb 1221.20(3)	0.015(3)	0.00026(5)	¹⁷⁴ Yb 3661.2(14)	0.043(10)	0.00075(18)
¹⁶⁸ Yb 1232.902(13)	0.018(3)	0.00032(5)	¹⁷⁴ Yb 3714.7(5)	0.23(6)	0.0040(11)
¹⁶⁸ Yb 1263.261(19)	0.024(5)	0.00042(9)	¹⁷⁴ Yb 3740.8(14)	0.043(10)	0.00075(18)
¹⁷⁰ Yb 1265.10(22)	0.081(12)	0.00142(21)	¹⁷⁴ Yb 3776.2(23)	0.040(10)	0.00070(18)
¹⁷¹ Yb 1288.873(12)	0.019(3)	0.00033(5)	¹⁷⁴ Yb 3782.9(19)	0.057(14)	0.00100(25)
¹⁷³ Yb 1292.2(4)	0.036(9)	0.00063(16)	¹⁷⁴ Yb 3823.8(14)	0.026(6)	0.00046(11)
¹⁶⁸ Yb 1295.620(13)	0.017(3)	0.00030(5)	¹⁷⁴ Yb 3842.1(14)	0.074(18)	0.0013(3)
¹⁷⁴ Yb 1296.3(3)	0.046(17)	0.0008(3)	¹⁷⁴ Yb 3854.4(11)	0.085(16)	0.0015(3)
¹⁷³ Yb 1308.53(11)	0.168(19)	0.0029(3)	¹⁷³ Yb 3868.0(4)	0.103(14)	0.00180(25)
¹⁷¹ Yb 1326.286(7)	0.055(7)	0.00096(12)	¹⁷⁴ Yb 3885.0(4)	0.72(17)	0.013(3)
¹⁷³ Yb 1353.21(22)	0.041(9)	0.00072(16)	¹⁷⁴ Yb 3929.3(4)	0.38(9)	0.0067(16)
¹⁷⁰ Yb 1371.3(4)	0.023(8)	0.00040(14)	¹⁷⁴ Yb 3978.2(19)	0.020(5)	0.00035(9)
¹⁶⁸ Yb 1374.45(7)	0.021(4)	0.00037(7)	¹⁷⁴ Yb 4129.6(19)	0.026(6)	0.00046(11)
¹⁷⁴ Yb 1378.22(7)	0.42(12)	0.0074(21)	¹⁷⁴ Yb 4138.6(19)	0.023(6)	0.00040(11)
¹⁷⁴ Yb 1378.7(10)	0.046(17)	0.0008(3)	¹⁷⁴ Yb 4174.9(13)	0.088(21)	0.0015(4)
¹⁷³ Yb 1381.48(14)	0.129(16)	0.0023(3)	¹⁷⁴ Yb 4195.0(4)	0.058(14)	0.00102(25)
¹⁷¹ Yb 1387.243(7)	0.142(18)	0.0025(3)	¹⁷⁴ Yb 4454.3(4)	0.026(6)	0.00046(11)
¹⁷¹ Yb 1398.07(4)	0.134(16)	0.0023(3)	¹⁷⁴ Yb 4465.9(4)	0.040(10)	0.00070(18)
¹⁶⁸ Yb 1410.40(14)	0.015(8)	0.00026(14)	¹⁷³ Yb 4716.5(7)	0.027(8)	0.00047(14)
¹⁶⁸ Yb 1432.33(7)	0.016(4)	0.00028(7)	¹⁷⁴ Yb 4830.2(4)	0.25(6)	0.0044(11)
¹⁷¹ Yb 1450.264(20)	0.032(5)	0.00056(9)	¹⁷⁴ Yb 5011.0(4)	0.18(4)	0.0032(7)
¹⁷³ Yb 1456.65(23)	0.083(15)	0.0015(3)	¹⁷⁴ Yb 5266.3(4)	1.4(6)	0.025(11)
¹⁷¹ Yb 1465.985(7)	0.095(11)	0.00166(19)	¹⁷⁴ Yb 5307.5(4)	0.020(5)	0.00035(9)
¹⁷⁰ Yb 1469.79(17)	0.096(16)	0.0017(3)	¹⁷¹ Yb 5539.05(5)	0.083(11)	0.00145(19)
¹⁷¹ Yb 1470.401(12)	0.058(7)	0.00102(12)	¹⁷¹ Yb 5691.58(9)	0.020(3)	0.00035(5)
¹⁷¹ Yb 1476.81(4)	0.048(6)	0.00084(11)	¹⁷⁰ Yb 5712.5(6)	0.056(9)	0.00098(16)
¹⁷³ Yb 1480.63(24)	0.050(12)	0.00088(21)	¹⁷¹ Yb 5824.85(6)	0.0172(23)	0.00030(4)
¹⁷⁰ Yb 1493.3(4)	0.027(10)	0.00047(18)	¹⁷¹ Yb 6009.65(6)	0.0148(19)	0.00026(3)
¹⁶⁸ Yb 1505.32(6)	0.018(4)	0.00032(7)	¹⁶⁸ Yb 6779.90(11)	0.058(7)	0.00102(12)
¹⁷¹ Yb 1521.197(16)	0.193(24)	0.0034(4)	Lutetium (Z=71), At. Wt.=174.967(1), $\sigma_{\gamma}=76.6(23)$		
¹⁷³ Yb 1529.19(15)	0.070(10)	0.00123(18)	¹⁷⁵ Lu 38.7460(10)	0.38(12)	0.0066(21)
¹⁷¹ Yb 1529.779(9)	0.095(12)	0.00166(21)	¹⁷⁵ Lu 46.4590(10)	0.26(7)	0.0045(12)
¹⁷³ Yb 1533.99(14)	0.103(13)	0.00180(23)	¹⁷⁵ Lu 66.2400(10)	0.28(4)	0.0048(7)
¹⁷³ Yb 1552.0(3)	0.032(9)	0.00056(16)	¹⁷⁵ Lu 71.5170(10)	3.96(22)	0.069(4)
¹⁷¹ Yb 1553.54(25)	0.026(5)	0.00046(9)	¹⁷⁵ Lu 73.1430(10)	0.160(20)	0.0028(4)
¹⁷¹ Yb 1584.114(12)	0.037(6)	0.00065(11)	¹⁷⁶ Lu 88.36(4)	7.1(4) s⁻¹g⁻¹	
¹⁷¹ Yb 1589.06(4)	0.037(5)	0.00065(9)	¹⁷⁶ Lu 94.129(8)	0.72(4)	0.0125(7)
¹⁷¹ Yb 1599.939(16)	0.125(16)	0.0022(3)	¹⁷⁶ Lu 111.705(12)	1.03(5)	0.0178(9)
¹⁷¹ Yb 1608.522(9)	0.081(11)	0.00142(19)	¹⁷⁵ Lu 112.9220(10)	1.15(7)	0.0199(12)
¹⁷¹ Yb 1621.960(12)	0.030(4)	0.00053(7)	¹⁷⁶ Lu 112.9500(10)d	3.47(16)	0.060[$<0.1\%$]
¹⁷¹ Yb 1631.792(20)	0.054(7)	0.00095(12)	¹⁷⁶ Lu 115.651(8)	0.144(22)	0.0025(4)
¹⁷³ Yb 1638.36(17)	0.22(3)	0.0039(5)	¹⁷⁶ Lu 119.836(3)	1.32(22)	0.023(4)
¹⁷³ Yb 1679.70(14)	0.161(19)	0.0028(3)	¹⁷⁶ Lu 121.620(3)	5.24(17)	0.091(3)
¹⁷¹ Yb 1696.12(3)	0.029(4)	0.00051(7)	¹⁷⁵ Lu 129.7730(10)	0.18(3)	0.0031(5)
¹⁷¹ Yb 1715.35(4)	0.090(11)	0.00158(19)	¹⁷⁶ Lu 135.802(19)	0.37(3)	0.0064(5)
¹⁷³ Yb 1730.9(3)	0.030(8)	0.00053(14)	¹⁷⁶ Lu 138.607(5)	6.79(24)	0.118(4)
¹⁷¹ Yb 1742.889(10)	0.024(5)	0.00042(9)	¹⁷⁵ Lu 139.3830(10)	0.25(4)	0.0043(7)
¹⁷¹ Yb 1770.58(4)	0.073(22)	0.0013(4)	¹⁷⁶ Lu 144.745(5)	1.33(8)	0.0230(14)
¹⁷³ Yb 1775.1(3)	0.052(11)	0.00091(19)	¹⁷⁶ Lu 145.870(4)	1.52(9)	0.0263(16)
¹⁷¹ Yb 1786.76(3)	0.027(4)	0.00047(7)	¹⁷⁶ Lu 147.165(5)	4.96(19)	0.086(3)
¹⁷¹ Yb 1815.84(3)	0.073(10)	0.00128(18)	¹⁷⁶ Lu 147.167(5)	3.7(7)	0.064(12)
¹⁷¹ Yb 1849.32(4)	0.046(6)	0.00081(11)	¹⁷⁶ Lu 150.392(3)	13.8(4)	0.239(7)
¹⁷¹ Yb 1877.64(3)	0.035(5)	0.00061(9)	¹⁷⁵ Lu 153.4670(10)	0.55(5)	0.0095(9)
¹⁷³ Yb 1920.6(3)	0.040(10)	0.00070(18)	¹⁷⁶ Lu 162.492(4)	5.32(17)	0.092(3)
¹⁷¹ Yb 1930.76(5)	0.070(9)	0.00123(16)	¹⁷⁶ Lu 168.605(6)	0.97(5)	0.0168(9)
¹⁷¹ Yb 1956.39(3)	0.028(4)	0.00049(7)	¹⁷⁶ Lu 171.869(7)	1.74(6)	0.0301(10)
¹⁷¹ Yb 1968.29(3)	0.061(14)	0.00107(25)	¹⁷⁵ Lu 182.4220(10)	0.46(10)	0.0080(17)
¹⁷¹ Yb 1997.515(21)	0.044(7)	0.00077(12)	¹⁷⁶ Lu 185.593(8)	3.42(12)	0.0592(21)
¹⁷³ Yb 2003.14(25)	0.045(10)	0.00079(18)	¹⁷⁶ Lu 187.970(23)	1.39(6)	0.0241(10)
¹⁷¹ Yb 2009.50(5)	0.074(12)	0.00130(21)	¹⁷⁵ Lu 188.2870(10)	0.29(4)	0.0050(7)
¹⁷¹ Yb 2024.16(3)	0.081(12)	0.00142(21)	¹⁷⁶ Lu 191.492(9)	0.62(12)	0.0107(21)
¹⁷³ Yb 2093.9(3)	0.026(8)	0.00046(14)	¹⁷⁵ Lu 192.2120(10)	1.08(14)	0.0187(24)
¹⁷¹ Yb 2102.90(3)	0.040(5)	0.00070(9)			

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Lutetium (Z=71), continued			Lutetium (Z=71), continued		
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
¹⁷⁶ Lu 195.565(8)	0.63(5)	0.0109(9)	¹⁷⁶ Lu 1305.18(8)	0.36(3)	0.0062(5)
¹⁷⁵ Lu 197.550(14)	0.30(14)	0.0052(24)	¹⁷⁶ Lu 1381.01(6)	0.30(3)	0.0052(5)
¹⁷⁵ Lu 201.5680(10)	0.78(12)	0.0135(21)	¹⁷⁶ Lu 4866.8(5)	0.25(5)	0.0043(9)
¹⁷⁶ Lu 201.83(4)	37.9(22) s⁻¹g⁻¹		¹⁷⁶ Lu 5016.6(5)	0.215(18)	0.0037(3)
¹⁷⁶ Lu 207.797(8)	1.00(5)	0.0173(9)	¹⁷⁶ Lu 5023.6(3)	0.176(24)	0.0030(4)
¹⁷⁶ Lu 208.3660(10)d	6.0(3)	0.104[<0.1%]	¹⁷⁶ Lu 5319.45(24)	0.167(19)	0.0029(3)
¹⁷⁶ Lu 209.492(24)	0.298(25)	0.0052(4)	¹⁷⁶ Lu 5323.12(13)	0.145(15)	0.0025(3)
¹⁷⁶ Lu 212.841(15)	0.16(3)	0.0028(5)	¹⁷⁵ Lu 5331.80(20)	0.16(4)	0.0028(7)
¹⁷⁶ Lu 213.965(8)	0.34(6)	0.0059(10)	¹⁷⁵ Lu 5331.94(20)	0.19(4)	0.0033(7)
¹⁷⁵ Lu 217.0030(10)	0.35(10)	0.0061(17)	¹⁷⁶ Lu 5343.91(25)	0.26(3)	0.0045(5)
¹⁷⁵ Lu 219.2830(20)	0.20(8)	0.0035(14)	¹⁷⁶ Lu 5465.7(3)	0.218(16)	0.0038(3)
¹⁷⁵ Lu 225.4030(10)	1.73(8)	0.0300(14)	¹⁷⁶ Lu 5570.12(10)	0.385(24)	0.0067(4)
¹⁷⁵ Lu 227.9970(10)	0.57(7)	0.0099(12)	¹⁷⁶ Lu 5601.87(25)	0.327(25)	0.0057(4)
¹⁷⁶ Lu 228.708(10)	0.178(21)	0.0031(4)	¹⁷⁶ Lu 5728.00(10)	0.23(3)	0.0040(5)
¹⁷⁵ Lu 233.7410(20)	0.41(10)	0.0071(17)	¹⁷⁶ Lu 5769.72(10)	0.184(18)	0.0032(3)
¹⁷⁶ Lu 235.892(15)	0.81(4)	0.0140(7)	¹⁷⁶ Lu 6803.92(9)	0.38(8)	0.0066(14)
¹⁷⁵ Lu 238.6710(10)	0.20(6)	0.0035(10)			
¹⁷⁶ Lu 244.310(12)	0.45(8)	0.0078(14)			
¹⁷⁶ Lu 247.255(15)	0.247(23)	0.0043(4)	Hafnium (Z=72), At. Wt.=178.49(2), $\sigma_\gamma=119(3)$		
¹⁷⁵ Lu 251.1990(20)	0.16(3)	0.0028(5)	¹⁷⁸ Hf 45.8570(10)	1.21(7)	0.0205(12)
¹⁷⁶ Lu 259.401(16)	1.89(8)	0.0327(14)	¹⁷⁷ Hf 62.820(21)	5.26(16)	0.089(3)
¹⁷⁵ Lu 263.7290(10)	0.59(10)	0.0102(17)	¹⁷⁷ Hf 93.182(6)	13.3(9)	0.226(15)
¹⁷⁶ Lu 264.581(6)	0.76(11)	0.0132(19)	¹⁷⁹ Hf 93.3240(20)	0.80(5)	0.0136(9)
¹⁷⁶ Lu 268.788(5)	3.64(13)	0.0630(23)	¹⁷⁸ Hf 105.8940(20)	0.335(10)	0.00569(17)
¹⁷⁵ Lu 277.6830(10)	0.20(6)	0.0035(10)	¹⁷⁷ Hf 122.8970(10)	0.432(16)	0.0073(3)
¹⁷⁵ Lu 284.6410(10)	0.75(6)	0.0130(10)	¹⁷⁴ Hf 125.7(10)	0.2000(20)	0.00340(3)
¹⁷⁶ Lu 301.098(6)	0.73(4)	0.0126(7)	¹⁷⁷ Hf 144.530(3)	0.384(13)	0.00652(22)
¹⁷⁶ Lu 306.84(4)	45.2(24) s⁻¹g⁻¹		¹⁷⁸ Hf 161.1890(20)	0.57(10)	0.0097(17)
¹⁷⁵ Lu 310.1870(10)	1.49(8)	0.0258(14)	¹⁷⁸ Hf 193.3100(10)	1.1(3)	0.019(5)
¹⁷⁶ Lu 313.350(8)	0.40(3)	0.0069(5)	¹⁷⁸ Hf 202.2840(20)	0.65(13)	0.0110(22)
¹⁷⁶ Lu 319.036(8)	3.83(13)	0.0663(23)	¹⁷⁷ Hf 213.439(7)	29.3(7)	0.497(12)
¹⁷⁶ Lu 322.865(19)	0.31(3)	0.0054(5)	¹⁷⁸ Hf 214.3410(20)	5.7(6)	0.097(10)
¹⁷⁶ Lu 329.59(3)	0.181(21)	0.0031(4)	¹⁷⁸ Hf 214.3410(20)d	16.3(3)	0.277[99%]
¹⁷⁵ Lu 335.8480(20)	1.32(8)	0.0229(14)	¹⁷⁹ Hf 215.426(8)	2.77(17)	0.047(3)
¹⁷⁶ Lu 336.323(15)	0.19(3)	0.0033(5)	¹⁷⁹ Hf 235.020(7)	0.38(9)	0.0065(15)
¹⁷⁶ Lu 346.37(3)	0.35(6)	0.0061(10)	¹⁷⁸ Hf 239.1660(10)	0.293(24)	0.0050(4)
¹⁷⁶ Lu 348.084(9)	0.84(4)	0.0145(7)	¹⁷⁷ Hf 244.3130(20)	0.58(4)	0.0098(7)
¹⁷⁶ Lu 360.096(10)	0.29(9)	0.0050(16)	¹⁷⁷ Hf 244.544(13)	0.97(14)	0.0165(24)
¹⁷⁶ Lu 364.58(4)	0.62(3)	0.0107(5)	¹⁷⁷ Hf 245.2950(20)	0.58(4)	0.0098(7)
¹⁷⁶ Lu 367.433(11)	2.23(8)	0.0386(14)	¹⁷⁷ Hf 256.6010(20)	0.426(20)	0.0072(3)
¹⁷⁶ Lu 393.389(11)	0.54(3)	0.0094(5)	¹⁷⁸ Hf 258.6230(20)	0.44(10)	0.0075(17)
¹⁷⁶ Lu 413.665(13)	0.93(4)	0.0161(7)	¹⁷⁷ Hf 273.166(3)	0.305(16)	0.0052(3)
¹⁷⁶ Lu 430.452(15)	0.147(21)	0.0025(4)	¹⁷⁷ Hf 277.2080(20)	0.47(3)	0.0080(5)
¹⁷⁶ Lu 436.505(13)	0.145(20)	0.0025(4)	¹⁷⁷ Hf 289.5570(20)	0.67(4)	0.0114(7)
¹⁷⁶ Lu 457.944(15)	8.3(3)	0.144(5)	¹⁷⁸ Hf 303.9880(20)	3.38(9)	0.0574(15)
¹⁷⁶ Lu 475.46(3)	0.287(16)	0.0050(3)	¹⁷⁷ Hf 325.559(4)	6.69(17)	0.114(3)
¹⁷⁵ Lu 520.5500(20)	0.20(4)	0.0035(7)	¹⁷⁹ Hf 332.275(11)	0.73(17)	0.012(3)
¹⁷⁵ Lu 527.5090(20)	0.32(5)	0.0055(9)	¹⁷⁷ Hf 339.1990(20)	1.28(6)	0.0217(10)
¹⁷⁶ Lu 544.602(18)	0.210(13)	0.00364(23)	¹⁷⁷ Hf 348.369(4)	0.60(8)	0.0102(14)
¹⁷⁶ Lu 547.866(16)	0.306(17)	0.0053(3)	¹⁷⁷ Hf 426.380(5)	0.35(3)	0.0059(5)
¹⁷⁶ Lu 550.288(15)	0.490(21)	0.0085(4)	¹⁷⁷ Hf 497.893(3)	1.11(11)	0.0188(19)
¹⁷⁶ Lu 552.073(15)	0.67(3)	0.0116(5)	¹⁷⁶ Hf 508.29(9)	1.05(6)	0.0178(10)
¹⁷⁵ Lu 563.9420(20)	0.51(4)	0.0088(7)	¹⁷⁷ Hf 547.374(5)	0.40(4)	0.0068(7)
¹⁷⁵ Lu 578.198(3)	0.20(8)	0.0035(14)	¹⁷⁷ Hf 596.894(4)	0.34(13)	0.0058(22)
¹⁷⁶ Lu 606.65(7)	0.182(15)	0.0032(3)	¹⁷⁸ Hf 729.515(4)	0.53(5)	0.0090(9)
¹⁷⁶ Lu 671.908(15)	0.259(21)	0.0045(4)	¹⁷⁷ Hf 921.822(5)	0.84(5)	0.0143(9)
¹⁷⁶ Lu 689.77(6)	0.31(5)	0.0054(9)	¹⁷⁷ Hf 961.919(5)	0.76(7)	0.0129(12)
¹⁷⁶ Lu 695.033(16)	0.296(25)	0.0051(4)	¹⁷⁷ Hf 970.066(7)	0.32(8)	0.0054(14)
¹⁷⁵ Lu 709.553(4)	0.21(7)	0.0036(12)	¹⁷⁸ Hf 1003.650(4)	0.89(5)	0.0151(9)
¹⁷⁶ Lu 716.470(17)	0.189(16)	0.0033(3)	¹⁷⁷ Hf 1016.663(6)	0.30(13)	0.0051(22)
¹⁷⁶ Lu 761.564(20)	2.60(9)	0.0450(16)	¹⁷⁹ Hf 1059.66(4)	0.32(3)	0.0054(5)
¹⁷⁵ Lu 834.810(3)	0.20(11)	0.0035(19)	¹⁷⁹ Hf 1065.45(3)	1.94(5)	0.0329(9)
¹⁷⁵ Lu 838.643(3)	0.89(10)	0.0154(17)	¹⁷⁷ Hf 1077.844(5)	2.40(6)	0.0407(10)
¹⁷⁶ Lu 864.52(8)	0.191(16)	0.0033(3)	¹⁷⁷ Hf 1081.454(6)	2.82(7)	0.0479(12)
¹⁷⁶ Lu 899.12(6)	0.423(25)	0.0073(4)	¹⁷⁷ Hf 1102.824(5)	2.96(8)	0.0503(14)
¹⁷⁶ Lu 907.86(6)	0.42(3)	0.0073(5)	¹⁷⁷ Hf 1143.737(7)	1.84(6)	0.0312(10)
¹⁷⁶ Lu 907.961(18)	0.35(5)	0.0061(9)	¹⁷⁷ Hf 1167.072(6)	3.95(10)	0.0671(17)
¹⁷⁶ Lu 916.24(4)	0.439(25)	0.0076(4)	¹⁷⁷ Hf 1174.635(5)	4.8(7)	0.081(12)
¹⁷⁵ Lu 1000.846(18)	0.15(10)	0.0026(17)	¹⁷⁷ Hf 1175.357(7)	2.6(5)	0.044(9)
¹⁷⁶ Lu 1036.39(8)	0.169(16)	0.0029(3)	¹⁷⁷ Hf 1183.504(8)	1.42(5)	0.0241(9)
¹⁷⁶ Lu 1061.97(6)	0.45(4)	0.0078(7)	¹⁷⁹ Hf 1197.92(8)	0.44(6)	0.0075(10)
¹⁷⁶ Lu 1080.24(6)	0.68(4)	0.0118(7)	¹⁷⁷ Hf 1205.975(5)	1.26(23)	0.021(4)
¹⁷⁶ Lu 1088.11(4)	0.83(4)	0.0144(7)	¹⁷⁷ Hf 1207.213(5)	3.9(3)	0.066(5)
¹⁷⁶ Lu 1215.36(13)	0.139(14)	0.00241(24)	¹⁷⁷ Hf 1226.532(6)	1.30(5)	0.0221(9)
¹⁷⁶ Lu 1233.84(6)	0.187(19)	0.0032(3)	¹⁷⁷ Hf 1229.287(8)	4.26(11)	0.0723(19)
			¹⁷⁷ Hf 1232.172(5)	1.35(6)	0.0229(10)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Hafnium (Z=72), continued			Tantalum (Z=73), continued		
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
¹⁷⁷ Hf 1247.379(5)	0.49(4)	0.0083(7)	¹⁸¹ Ta 156.0880(20)	0.233(6)	0.00390(10)
¹⁷⁷ Hf 1254.913(7)	0.40(4)	0.0068(7)	¹⁸¹ Ta 156.2300(20)	0.046(3)	0.00077(5)
¹⁷⁷ Hf 1269.372(6)	2.26(7)	0.0384(12)	¹⁸¹ Ta 159.048(3)	0.0449(23)	0.00075(4)
¹⁷⁷ Hf 1291.282(6)	0.99(5)	0.0168(9)	¹⁸¹ Ta 167.413(3)	0.031(3)	0.00052(5)
¹⁷⁷ Hf 1310.071(5)	1.45(5)	0.0246(9)	¹⁸¹ Ta 168.130(4)	0.033(9)	0.00055(15)
¹⁷⁷ Hf 1330.109(5)	2.08(8)	0.0353(14)	¹⁸¹ Ta 171.580(3) <i>d</i>	0.005400(11)	9.044×10 ⁻⁵ [65%]
¹⁷⁷ Hf 1333.832(5)	1.71(9)	0.0290(15)	¹⁸¹ Ta 171.580(3)	0.029(4)	0.00049(7)
¹⁷⁷ Hf 1340.447(6)	2.38(10)	0.0404(17)	¹⁸¹ Ta 173.2050(20)	1.210(25)	0.0203(4)
¹⁷⁷ Hf 1344.841(5)	0.59(5)	0.0100(9)	¹⁸¹ Ta 178.6250(20)	0.072(6)	0.00121(10)
¹⁷⁷ Hf 1403.267(20)	0.51(4)	0.0087(7)	¹⁸¹ Ta 190.334(3)	0.183(7)	0.00306(12)
¹⁷⁷ Hf 1420.651(6)	1.81(8)	0.0307(14)	¹⁸¹ Ta 195.1080(20)	0.075(4)	0.00126(7)
¹⁷⁷ Hf 1496.448(21)	0.44(3)	0.0075(5)	¹⁸¹ Ta 210.5460(20)	0.064(4)	0.00107(7)
¹⁷⁷ Hf 1542.416(7)	0.55(8)	0.0093(14)	¹⁸¹ Ta 214.2070(20)	0.0481(23)	0.00081(4)
¹⁷⁷ Hf 1649.794(6)	0.367(22)	0.0062(4)	¹⁸¹ Ta 233.7080(20)	0.065(3)	0.00109(5)
¹⁷⁸ Hf 1649.81(10)	0.46(4)	0.0078(7)	¹⁸¹ Ta 237.2880(20)	0.050(6)	0.00084(10)
¹⁷⁷ Hf 1725.094(10)	0.46(5)	0.0078(9)	¹⁸¹ Ta 244.809(4)	0.032(3)	0.00054(5)
¹⁷⁷ Hf 1848.821(8)	0.46(5)	0.0078(9)	¹⁸¹ Ta 252.7710(20)	0.034(8)	0.00057(13)
¹⁸⁰ Hf 1895.38(16)	0.54(5)	0.0092(9)	¹⁸¹ Ta 260.094(4)	0.052(17)	0.0009(3)
¹⁷⁷ Hf 1904.272(10)	0.71(6)	0.0121(10)	¹⁸¹ Ta 267.907(3)	0.027(4)	0.00045(7)
¹⁷⁷ Hf 1927.998(7)	0.30(5)	0.0051(9)	¹⁸¹ Ta 270.4030(20)	2.60(6)	0.0435(10)
¹⁷⁷ Hf 1957.294(12)	0.31(4)	0.0053(7)	¹⁸¹ Ta 287.131(3)	0.054(6)	0.00090(10)
¹⁷⁸ Hf 3497.81(25)	0.31(5)	0.0053(9)	¹⁸¹ Ta 290.362(3)	0.027(7)	0.00045(12)
¹⁷⁸ Hf 4336.18(4)	0.35(4)	0.0059(7)	¹⁸¹ Ta 297.125(3)	0.17(3)	0.0028(5)
¹⁷⁸ Hf 4343.69(4)	0.44(5)	0.0075(9)	¹⁸¹ Ta 322.554(4)	0.048(3)	0.00080(5)
¹⁷⁹ Hf 4915.2(6)	0.35(5)	0.0059(9)	¹⁸¹ Ta 346.465(5)	0.110(6)	0.00184(10)
¹⁷⁷ Hf 5068.3(5)	0.32(5)	0.0054(9)	¹⁸¹ Ta 360.518(3)	0.177(7)	0.00296(12)
¹⁷⁷ Hf 5260.9(5)	0.36(6)	0.0061(10)	¹⁸¹ Ta 373.881(6)	0.052(3)	0.00087(5)
¹⁷⁷ Hf 5294.9(5)	0.34(5)	0.0058(9)	¹⁸¹ Ta 377.2460(20)	0.127(4)	0.00213(7)
¹⁷⁷ Hf 5575.22(16)	0.41(4)	0.0070(7)	¹⁸¹ Ta 382.203(3)	0.074(3)	0.00124(5)
¹⁷⁹ Hf 5647.71(11)	0.38(4)	0.0065(7)	¹⁸¹ Ta 401.238(3)	0.044(3)	0.00074(5)
¹⁸⁰ Hf 5649.60(21)	0.33(18)	0.006(3)	¹⁸¹ Ta 402.623(3)	1.180(23)	0.0198(4)
¹⁸⁰ Hf 5695.48(17)	1.09(9)	0.0185(15)	¹⁸¹ Ta 443.6080(20)	0.036(3)	0.00060(5)
¹⁷⁸ Hf 5723.809(22)	1.97(10)	0.0334(17)	¹⁸¹ Ta 473.803(6)	0.032(3)	0.00054(5)
¹⁷⁷ Hf 5807.42(16)	0.35(5)	0.0059(9)	¹⁸¹ Ta 478.685(5)	0.054(3)	0.00090(5)
¹⁷⁷ Hf 6111.85(16)	0.92(6)	0.0156(10)	¹⁸¹ Ta 480.034(3)	0.091(4)	0.00152(7)
¹⁷⁷ Hf 6357.14(16)	0.32(5)	0.0054(9)	¹⁸¹ Ta 489.590(4)	0.027(4)	0.00045(7)
Tantalum (Z=73), At. Wt.=180.9479(1), $\sigma_T=20.6(5)$			¹⁸¹ Ta 499.118(6)	0.050(4)	0.00084(7)
¹⁸¹ Ta 47.8120(20)	0.13(3)	0.0022(5)	¹⁸¹ Ta 501.068(3)	0.029(3)	0.00049(5)
¹⁸¹ Ta 54.4710(20)	0.052(13)	0.00087(22)	¹⁸¹ Ta 509.967(5)	0.054(13)	0.00090(22)
¹⁸¹ Ta 59.693(3)	0.042(13)	0.00070(22)	¹⁸¹ Ta 512.355(4)	0.165(9)	0.00276(15)
¹⁸¹ Ta 71.900(4)	0.060(15)	0.00100(25)	¹⁸¹ Ta 514.110(4)	0.033(4)	0.00055(7)
¹⁸¹ Ta 72.932(4)	0.054(15)	0.00090(25)	¹⁸¹ Ta 530.593(4)	0.0266(23)	0.00045(4)
¹⁸¹ Ta 73.519(4)	0.06(3)	0.0010(5)	¹⁸¹ Ta 603.15(3)	0.035(3)	0.00059(5)
¹⁸¹ Ta 74.2680(20)	0.077(22)	0.0013(4)	¹⁸¹ Ta 3982.2(3)	0.032(7)	0.00054(12)
¹⁸¹ Ta 76.549(6)	0.029(13)	0.00049(22)	¹⁸¹ Ta 4045.81(23)	0.030(3)	0.00050(5)
¹⁸¹ Ta 82.876(4)	0.029(13)	0.00049(22)	¹⁸¹ Ta 4053.82(22)	0.034(3)	0.00057(5)
¹⁸¹ Ta 92.480(3)	0.065(9)	0.00109(15)	¹⁸¹ Ta 4219.98(25)	0.037(4)	0.00062(7)
¹⁸¹ Ta 94.1680(20)	0.051(7)	0.00085(12)	¹⁸¹ Ta 4315.43(19)	0.084(7)	0.00141(12)
¹⁸¹ Ta 95.156(3)	0.081(9)	0.00136(15)	¹⁸¹ Ta 4443.9(3)	0.031(4)	0.00052(7)
¹⁸¹ Ta 97.467(3)	0.065(9)	0.00109(15)	¹⁸¹ Ta 4482.95(25)	0.042(6)	0.00070(10)
¹⁸¹ Ta 97.8320(20)	0.139(7)	0.00233(12)	¹⁸¹ Ta 4536.05(25)	0.032(4)	0.00054(7)
¹⁸¹ Ta 99.8310(20)	0.127(7)	0.00213(12)	¹⁸¹ Ta 4566.6(3)	0.032(4)	0.00054(7)
¹⁸¹ Ta 100.5540(20)	0.060(11)	0.00100(18)	¹⁸¹ Ta 4579.5(3)	0.035(4)	0.00059(7)
¹⁸¹ Ta 104.1130(20)	0.037(6)	0.00062(10)	¹⁸¹ Ta 4618.08(22)	0.044(4)	0.00074(7)
¹⁸¹ Ta 107.863(3)	0.131(14)	0.00219(23)	¹⁸¹ Ta 4691.73(25)	0.040(4)	0.00067(7)
¹⁸¹ Ta 114.3150(10)	0.280(9)	0.00469(15)	¹⁸¹ Ta 4781.95(18)	0.105(7)	0.00176(12)
¹⁸¹ Ta 114.3760(20)	0.110(20)	0.0018(3)	¹⁸¹ Ta 4792.76(25)	0.048(4)	0.00080(7)
¹⁸¹ Ta 114.674(3)	0.193(20)	0.0032(3)	¹⁸¹ Ta 4802.55(25)	0.037(4)	0.00062(7)
¹⁸¹ Ta 118.8950(20)	0.108(8)	0.00181(13)	¹⁸¹ Ta 4832.97(25)	0.030(3)	0.00050(5)
¹⁸¹ Ta 119.516(3)	0.039(6)	0.00065(10)	¹⁸¹ Ta 4980.12(22)	0.033(3)	0.00055(5)
¹⁸¹ Ta 119.6980(20)	0.038(6)	0.00064(10)	¹⁸¹ Ta 5005.52(21)	0.042(3)	0.00070(5)
¹⁸¹ Ta 121.5340(20)	0.031(3)	0.00052(5)	¹⁸¹ Ta 5245.79(6)	0.051(4)	0.00085(7)
¹⁸¹ Ta 122.613(3)	0.037(6)	0.00062(10)	¹⁸¹ Ta 5343.26(6)	0.048(4)	0.00080(7)
¹⁸¹ Ta 122.675(3)	0.092(4)	0.00154(7)	¹⁸¹ Ta 5792.39(6)	0.034(3)	0.00057(5)
¹⁸¹ Ta 122.9730(20)	0.075(9)	0.00126(15)	¹⁸¹ Ta 5964.95(6)	0.138(8)	0.00231(13)
¹⁸¹ Ta 125.126(3)	0.030(4)	0.00050(7)	¹⁸¹ Ta 6062.78(6)	0.087(4)	0.00146(7)
¹⁸¹ Ta 133.8770(20)	0.63(7)	0.0105(12)	Tungsten (Z=74), At. Wt.=183.84(1), $\sigma_T=18.39(16)$		
¹⁸¹ Ta 139.4560(20)	0.094(10)	0.00157(17)	¹⁸² W 46.4840(10)	0.192(10)	0.00316(16)
¹⁸¹ Ta 139.6610(20)	0.029(3)	0.00049(5)	¹⁸² W 52.5290(10)	0.128(11)	0.00211(18)
¹⁸¹ Ta 141.2450(20)	0.062(9)	0.00104(15)	¹⁸⁶ W 59.03(4)	0.208(7)	0.00343(12)
¹⁸¹ Ta 142.261(5)	0.042(13)	0.00070(22)	¹⁸⁶ W 72.002(4)<i>d</i>	1.32(3)	0.0218[1.4%]
¹⁸¹ Ta 143.156(7)	0.061(9)	0.00102(15)	¹⁸⁶ W 77.39(3)	0.134(5)	0.00221(8)
¹⁸¹ Ta 146.7740(20)	0.141(4)	0.00236(7)	¹⁸² W 84.7130(10)	0.0261(16)	0.00043(3)
¹⁸¹ Ta 154.0850(20)	0.082(3)	0.00137(5)	¹⁸² W 99.0790(10)	0.155(13)	0.00256(21)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0
Tungsten (Z=74), continued			Tungsten (Z=74), continued		
¹⁸⁶ W 101.80(5)	0.0129(22)	2.1(4)×10 ⁻⁴	¹⁸³ W 724.39(3)	0.0179(23)	0.00030(4)
¹⁸² W 107.9320(10)	0.144(12)	0.00237(20)	¹⁸⁶ W 725.94(6)	0.023(4)	0.00038(7)
¹⁸² W 109.738(7)	0.0201(16)	0.00033(3)	¹⁸⁶ W 738.73(5)	0.040(3)	0.00066(5)
¹⁸³ W 111.216(9)	0.195(6)	0.00321(10)	¹⁸⁴ W 744.86(24)	0.030(14)	0.00049(23)
¹⁸⁶ W 124.05(5)	0.051(11)	0.00084(18)	¹⁸⁶ W 745.80(6)	0.053(3)	0.00087(5)
¹⁸⁶ W 127.43(4)	0.129(5)	0.00213(8)	¹⁸⁴ W 757.2(3)	0.048(22)	0.0008(4)
¹⁸⁶ W 128.92(6)	0.0207(24)	0.00034(4)	¹⁸³ W 757.324(23)	0.028(3)	0.00046(5)
¹⁸⁶ W 134.247(7)d	1.050(20)	0.0173[1.4%]	¹⁸⁶ W 762.78(5)	0.047(4)	0.00077(7)
¹⁸⁶ W 142.90(8)	0.0206(18)	0.00034(3)	¹⁸⁴ W 768.33(22)	0.015(7)	2.5(12)×10 ⁻⁴
¹⁸⁶ W 145.79(3)	0.970(21)	0.0160(4)	¹⁸⁶ W 772.89(5)d	0.490(10)	0.00808[1.4%]
¹⁸⁶ W 149.05(7)	0.0393(22)	0.00065(4)	¹⁸⁶ W 782.12(6)	0.22(3)	0.0036(5)
¹⁸⁶ W 157.46(4)	0.0319(14)	0.000526(23)	¹⁸⁶ W 788.79(7)	0.070(5)	0.00115(8)
¹⁸² W 160.5280(10)	0.0183(12)	0.000302(20)	¹⁸³ W 792.059(16)	0.119(6)	0.00196(10)
¹⁸² W 162.315(8)	0.187(5)	0.00308(8)	¹⁸⁶ W 803.33(6)	0.034(3)	0.00056(5)
¹⁸⁶ W 171.69(7)	0.0097(10)	1.60(16)×10 ⁻⁴	¹⁸⁶ W 814.20(6)	0.0436(25)	0.00072(4)
¹⁸⁴ W 173.680(20)	0.0155(16)	0.00026(3)	¹⁸⁶ W 816.13(5)	0.104(4)	0.00171(7)
¹⁸⁶ W 197.56(16)	0.027(5)	0.00045(8)	¹⁸² W 817.557(17)	0.0157(13)	0.00259(21)
¹⁸⁶ W 201.44(5)	0.319(8)	0.00526(13)	¹⁸⁴ W 822.76(20)	0.0176(24)	0.00029(4)
¹⁸⁶ W 204.83(4)	0.148(4)	0.00244(7)	¹⁸⁶ W 831.65(10)	0.092(16)	0.0015(3)
¹⁸² W 208.817(7)	0.0231(25)	0.00038(4)	¹⁸⁴ W 838.5(4)	0.014(6)	2.3(10)×10 ⁻⁴
¹⁸² W 209.876(9)	0.014(3)	2.3(5)×10 ⁻⁴	¹⁸⁶ W 840.18(5)	0.143(5)	0.00236(8)
¹⁸³ W 215.340(13)	0.0107(10)	1.76(16)×10 ⁻⁴	¹⁸² W 846.33(6)	0.0221(22)	0.00036(4)
¹⁸⁶ W 225.86(4)	0.113(17)	0.0019(3)	¹⁸⁶ W 866.18(7)	0.068(3)	0.00112(5)
¹⁸³ W 226.743(10)	0.067(16)	0.0011(3)	¹⁸⁶ W 872.64(8)	0.040(3)	0.00066(5)
¹⁸⁶ W 227.34(7)	0.024(4)	0.00040(7)	¹⁸⁶ W 877.51(8)	0.030(3)	0.00049(5)
¹⁸² W 246.0600(10)	0.0280(12)	0.000462(20)	¹⁸⁶ W 880.89(9)	0.045(3)	0.00074(5)
¹⁸³ W 252.854(11)	0.101(3)	0.00166(5)	¹⁸² W 888.08(3)	0.076(13)	0.00125(21)
¹⁸⁶ W 273.10(5)	0.272(7)	0.00448(12)	¹⁸⁴ W 888.9(3)	0.026(12)	0.00043(20)
¹⁸⁶ W 289.94(5)	0.0603(22)	0.00099(4)	¹⁸³ W 891.27(4)	0.063(4)	0.00104(7)
¹⁸² W 291.724(7)	0.0453(19)	0.00075(3)	¹⁸⁶ W 891.59(6)	0.136(5)	0.00224(8)
¹⁸⁶ W 294.73(8)	0.0097(16)	1.6(3)×10 ⁻⁴	¹⁸³ W 894.735(16)	0.075(4)	0.00124(7)
¹⁸³ W 294.958(14)	0.0106(11)	1.75(18)×10 ⁻⁴	¹⁸³ W 903.274(17)	0.115(5)	0.00190(8)
¹⁸⁶ W 303.25(4)	0.044(3)	0.00073(5)	¹⁸⁶ W 909.04(10)	0.092(4)	0.00152(7)
¹⁸² W 313.0160(10)	0.054(4)	0.00089(7)	¹⁸⁴ W 912.1(3)	0.028(3)	0.00046(5)
¹⁸³ W 318.015(12)	0.021(3)	0.00035(5)	¹⁸⁶ W 913.63(6)	0.030(3)	0.00049(5)
¹⁸⁶ W 354.78(6)	0.0452(24)	0.00075(4)	¹⁸² W 927.294(18)	0.0235(18)	0.00039(3)
¹⁸⁰ W 365.44(11)	0.0155(15)	0.000256(25)	¹⁸⁶ W 930.08(8)	0.018(4)	0.00030(7)
¹⁸⁶ W 376.70(5)	0.0453(18)	0.00075(3)	¹⁸⁶ W 933.46(7)	0.0133(11)	2.19(18)×10 ⁻⁴
¹⁸⁶ W 390.59(11)	0.0126(12)	2.08(20)×10 ⁻⁴	¹⁸⁶ W 936.54(8)	0.0130(11)	2.14(18)×10 ⁻⁴
¹⁸⁶ W 423.75(7)	0.0497(22)	0.00082(4)	¹⁸² W 941.02(5)	0.0117(11)	1.93(18)×10 ⁻⁴
¹⁸⁶ W 473.88(7)	0.055(5)	0.00091(8)	¹⁸⁶ W 941.04(8)	0.0276(13)	0.000455(21)
¹⁸⁶ W 479.550(22)d	2.59(5)	0.0427[1.4%]	¹⁸² W 960.29(17)	0.0101(21)	1.7(4)×10 ⁻⁴
¹⁸⁶ W 494.64(7)	0.0123(16)	2.0(3)×10 ⁻⁴	¹⁸⁴ W 976.2(3)	0.016(7)	0.00026(12)
¹⁸⁶ W 500.08(6)	0.0491(23)	0.00081(4)	¹⁸⁶ W 979.68(16)	0.016(16)	0.0003(3)
¹⁸⁶ W 531.17(7)	0.052(3)	0.00086(5)	¹⁸² W 979.871(18)	0.102(10)	0.00168(16)
¹⁸⁶ W 541.09(7)	0.0190(23)	0.00031(4)	¹⁸⁶ W 989.11(7)	0.036(4)	0.00059(7)
¹⁸⁶ W 547.81(17)	0.022(4)	0.00036(7)	¹⁸⁶ W 1004.94(8)	0.015(6)	2.5(10)×10 ⁻⁴
¹⁸⁶ W 551.52(4)d	0.603(14)	0.00994[1.4%]	¹⁸⁴ W 1005.9(4)	0.022(10)	0.00036(16)
¹⁸⁶ W 557.16(5)	0.125(5)	0.00206(8)	¹⁸³ W 1010.177(23)	0.036(3)	0.00059(5)
¹⁸⁴ W 569.65(22)	0.0166(17)	0.00027(3)	¹⁸⁶ W 1012.05(6)	0.041(5)	0.00068(8)
¹⁸⁶ W 577.30(5)	0.191(5)	0.00315(8)	¹⁸⁶ W 1018.43(8)	0.036(4)	0.00059(7)
¹⁸⁴ W 579.8(3)	0.021(10)	0.00035(16)	¹⁸⁶ W 1025.94(12)	0.033(8)	0.00054(13)
¹⁸⁴ W 580.49(23)	0.021(10)	0.00035(16)	¹⁸² W 1026.373(17)	0.161(15)	0.00265(25)
¹⁸⁶ W 588.34(7)	0.0216(19)	0.00036(3)	¹⁸⁴ W 1031.3(3)	0.031(14)	0.00051(23)
¹⁸³ W 607.60(5)	0.0112(16)	1.8(3)×10 ⁻⁴	¹⁸⁶ W 1057.51(7)	0.029(3)	0.00048(5)
¹⁸⁶ W 611.30(5)	0.066(3)	0.00109(5)	¹⁸⁶ W 1071.09(5)	0.053(3)	0.00087(5)
¹⁸⁶ W 616.20(6)	0.059(3)	0.00097(5)	¹⁸⁶ W 1082.34(8)	0.061(4)	0.00101(7)
¹⁸⁶ W 618.26(4)d	0.746(17)	0.0123[1.4%]	¹⁸⁶ W 1084.97(12)	0.022(3)	0.00036(5)
¹⁸⁶ W 625.519(10)d	0.129(3)	0.00213[1.4%]	¹⁸² W 1100.73(13)	0.024(5)	0.00040(8)
¹⁸⁶ W 629.19(17)	0.022(3)	0.00036(5)	¹⁸⁶ W 1103.58(21)	0.050(13)	0.00082(21)
¹⁸⁶ W 635.35(5)	0.036(4)	0.00059(7)	¹⁸⁶ W 1106.96(20)	0.027(3)	0.00045(5)
¹⁸⁴ W 636.4(4)	0.044(20)	0.0007(3)	¹⁸³ W 1121.392(24)	0.0144(15)	2.37(25)×10 ⁻⁴
¹⁸⁴ W 640.02(24)	0.055(25)	0.0009(4)	¹⁸⁴ W 1125.3(3)	0.046(21)	0.0008(4)
¹⁸⁶ W 640.43(7)	0.032(3)	0.00053(5)	¹⁸⁶ W 1134.90(7)	0.027(3)	0.00045(5)
¹⁸⁶ W 657.54(7)	0.083(5)	0.00137(8)	¹⁸⁶ W 1139.48(5)	0.031(3)	0.00051(5)
¹⁸⁶ W 661.36(8)	0.032(4)	0.00053(7)	¹⁸⁶ W 1153.37(12)	0.014(8)	2.3(13)×10 ⁻⁴
¹⁸⁴ W 663.49(21)	0.029(3)	0.00048(5)	¹⁸⁴ W 1153.5(3)	0.011(5)	1.8(8)×10 ⁻⁴
¹⁸⁶ W 670.34(5)	0.0452(25)	0.00075(4)	¹⁸⁴ W 1180.8(3)	0.08(4)	0.0013(7)
¹⁸⁴ W 674.5(3)	0.019(9)	0.00031(15)	¹⁸⁴ W 1195.63(23)	0.031(14)	0.00051(23)
¹⁸⁶ W 685.73(4)d	3.24(7)	0.0534[1.4%]	¹⁸² W 1262.10(5)	0.0179(24)	0.00030(4)
¹⁸⁶ W 694.38(5)	0.073(3)	0.00120(5)	¹⁸⁶ W 1269.91(9)	0.031(8)	0.00051(13)
¹⁸² W 694.64(4)	0.0230(19)	0.00038(3)	¹⁸³ W 1275.01(3)	0.032(6)	0.00053(10)
¹⁸² W 696.77(5)	0.022(6)	0.00036(10)	¹⁸³ W 1319.77(5)	0.0134(18)	2.2(3)×10 ⁻⁴
¹⁸³ W 710.28(5)	0.0118(17)	1.9(3)×10 ⁻⁴	¹⁸⁴ W 1328.3(4)	0.015(3)	2.5(5)×10 ⁻⁴
¹⁸³ W 711.59(6)	0.0108(15)	1.78(25)×10 ⁻⁴	¹⁸² W 1347.37(13)	0.019(11)	0.00031(18)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Tungsten (Z=74), continued			Tungsten (Z=74), continued		
¹⁸⁴ W 1347.6(8)	0.020(9)	0.00033(15)	¹⁸⁶ W 4158.13(21)	0.043(5)	0.00071(8)
¹⁸³ W 1386.22(3)	0.025(3)	0.00041(5)	¹⁸² W 4162.33(17)	0.0122(15)	2.01(25) $\times 10^{-4}$
¹⁸⁴ W 1408.1(3)	0.0170(22)	0.00028(4)	¹⁸⁴ W 4219.2(8)	0.034(16)	0.0006(3)
¹⁸³ W 1412.03(16)	0.017(5)	0.00028(8)	¹⁸² W 4246.61(4)	0.043(4)	0.00071(7)
¹⁸² W 1424.42(5)	0.030(8)	0.00049(13)	¹⁸⁶ W 4249.66(7)	0.115(6)	0.00190(10)
¹⁸³ W 1430.98(5)	0.0106(15)	1.75(25) $\times 10^{-4}$	¹⁸² W 4304.65(6)	0.020(3)	0.00033(5)
¹⁸² W 1470.92(5)	0.010(4)	1.6(7) $\times 10^{-4}$	¹⁸⁶ W 4331.63(8)	0.040(4)	0.00066(7)
¹⁸² W 1504.07(9)	0.0100(11)	1.65(18) $\times 10^{-4}$	¹⁸² W 4367.18(4)	0.026(3)	0.00043(5)
¹⁸² W 1509.68(13)	0.022(3)	0.00036(5)	¹⁸² W 4379.77(5)	0.017(3)	0.00028(5)
¹⁸² W 1556.18(13)	0.014(3)	2.3(5) $\times 10^{-4}$	¹⁸⁶ W 4384.20(9)	0.057(5)	0.00094(8)
¹⁸³ W 1569.9(3)	0.013(3)	2.1(5) $\times 10^{-4}$	¹⁸⁶ W 4448.10(9)	0.048(3)	0.00079(5)
¹⁸³ W 1765.47(9)	0.0105(22)	1.7(4) $\times 10^{-4}$	¹⁸² W 4460.59(9)	0.0124(23)	2.0(4) $\times 10^{-4}$
¹⁸³ W 1919.4(4)	0.019(4)	0.00031(7)	¹⁸⁴ W 4469.1(6)	0.022(10)	0.00036(16)
¹⁸³ W 1945.14(15)	0.020(3)	0.00033(5)	¹⁸⁶ W 4491.51(10)	0.036(10)	0.00059(16)
¹⁸³ W 1949.69(7)	0.0097(21)	1.6(4) $\times 10^{-4}$	¹⁸² W 4518.11(5)	0.039(5)	0.00064(8)
¹⁸³ W 1995.48(21)	0.0103(20)	1.7(3) $\times 10^{-4}$	¹⁸⁴ W 4535.5(3)	0.08(4)	0.0013(7)
¹⁸³ W 2014.85(5)	0.0104(15)	1.71(25) $\times 10^{-4}$	¹⁸⁶ W 4557.49(11)	0.025(5)	0.00041(8)
¹⁸³ W 2035.64(17)	0.025(3)	0.00041(5)	¹⁸² W 4562.86(14)	0.026(3)	0.00043(5)
¹⁸³ W 2135.08(21)	0.013(3)	2.1(5) $\times 10^{-4}$	¹⁸⁴ W 4573.7(3)	0.104(9)	0.00171(15)
¹⁸³ W 2183.29(8)	0.022(3)	0.00036(5)	¹⁸⁶ W 4574.94(8)	0.152(10)	0.00251(16)
¹⁸³ W 2284.32(19)	0.018(4)	0.00030(7)	¹⁸⁶ W 4626.35(7)	0.124(7)	0.00204(12)
¹⁸⁶ W 2293.1(7)	0.011(3)	1.8(5) $\times 10^{-4}$	¹⁸² W 4634.64(13)	0.015(4)	2.5(7) $\times 10^{-4}$
¹⁸⁶ W 2367.1(4)	0.030(16)	0.0005(3)	¹⁸⁶ W 4650.40(7)	0.052(5)	0.00086(8)
¹⁸³ W 2369.9(3)	0.018(4)	0.00030(7)	¹⁸⁶ W 4684.40(8)	0.150(7)	0.00247(12)
¹⁸⁶ W 2481.30(25)	0.031(4)	0.00051(7)	¹⁸² W 4719.90(5)	0.0189(25)	0.00031(4)
¹⁸⁶ W 2556.0(3)	0.021(4)	0.00035(7)	¹⁸⁴ W 4748.7(4)	0.06(3)	0.0010(5)
¹⁸⁶ W 2584.20(18)	0.031(4)	0.00051(7)	¹⁸⁴ W 4931.79(25)	0.0119(23)	2.0(4) $\times 10^{-4}$
¹⁸⁶ W 2689.5(3)	0.024(4)	0.00040(7)	¹⁸⁴ W 4980.5(9)	0.017(8)	0.00028(13)
¹⁸⁶ W 2708.4(3)	0.026(4)	0.00043(7)	¹⁸⁴ W 4986.2(3)	0.019(9)	0.00031(15)
¹⁸⁶ W 2727.5(4)	0.021(11)	0.00035(18)	¹⁸³ W 5015.52(20)	0.0162(20)	0.00027(3)
¹⁸⁶ W 2738.4(3)	0.032(4)	0.00053(7)	¹⁸⁴ W 5091.05(25)	0.07(3)	0.0012(5)
¹⁸⁶ W 2760.3(3)	0.033(4)	0.00054(7)	¹⁸³ W 5116.55(10)	0.0114(16)	1.9(3) $\times 10^{-4}$
¹⁸⁶ W 2831.98(20)	0.023(4)	0.00038(7)	¹⁸² W 5164.43(3)	0.19(3)	0.0031(5)
¹⁸⁶ W 2849.3(3)	0.033(4)	0.00054(7)	¹⁸² W 5256.22(4)	0.0122(12)	2.01(20) $\times 10^{-4}$
¹⁸⁶ W 2939.4(4)	0.014(4)	2.3(7) $\times 10^{-4}$	¹⁸⁶ W 5261.68(6)	0.86(4)	0.0142(7)
¹⁸⁶ W 3055.01(20)	0.0290(25)	0.00048(4)	¹⁸³ W 5285.00(8)	0.0115(14)	1.90(23) $\times 10^{-4}$
¹⁸⁶ W 3097.3(4)	0.015(3)	2.5(5) $\times 10^{-4}$	¹⁸⁶ W 5320.72(6)	0.605(21)	0.0100(4)
¹⁸⁶ W 3114.78(20)	0.025(3)	0.00041(5)	¹⁸⁶ W 5466.50(6)	0.023(4)	0.00038(7)
¹⁸⁶ W 3148.2(5)	0.086(19)	0.0014(3)	¹⁸³ W 5534.37(11)	0.011(4)	1.8(7) $\times 10^{-4}$
¹⁸⁶ W 3153.9(10)	0.061(20)	0.0010(3)	¹⁸⁴ W 5754.53(21)	0.0112(18)	1.8(3) $\times 10^{-4}$
¹⁸⁶ W 3191.92(25)	0.037(3)	0.00061(5)	¹⁸³ W 5796.19(9)	0.023(9)	0.00038(15)
¹⁸⁶ W 3207.0(3)	0.030(4)	0.00049(7)	¹⁸³ W 5797.50(9)	0.0161(23)	0.00027(4)
¹⁸⁶ W 3225.15(17)	0.042(6)	0.00069(10)	¹⁸³ W 6024.82(7)	0.036(3)	0.00059(5)
¹⁸⁶ W 3267.1(5)	0.0101(24)	1.7(4) $\times 10^{-4}$	¹⁸² W 6144.28(3)	0.174(11)	0.00287(18)
¹⁸⁶ W 3314.4(4)	0.015(3)	2.5(5) $\times 10^{-4}$	¹⁸³ W 6189.75(7)	0.0264(24)	0.00044(4)
¹⁸⁶ W 3376.15(18)	0.041(4)	0.00068(7)	¹⁸² W 6190.78(3)	0.45(4)	0.0074(7)
¹⁸⁶ W 3423.0(4)	0.030(3)	0.00049(5)	¹⁸³ W 6289.64(7)	0.0235(19)	0.00039(3)
¹⁸⁶ W 3443.2(4)	0.039(12)	0.00064(20)	¹⁸³ W 6408.54(8)	0.043(4)	0.00071(7)
¹⁸⁶ W 3452.8(9)	0.055(10)	0.00091(16)	¹⁸³ W 6507.75(7)	0.0098(9)	1.62(15) $\times 10^{-4}$
¹⁸⁶ W 3469.40(14)	0.103(6)	0.00170(10)	¹⁸³ W 7299.78(7)	0.0159(17)	0.00026(3)
¹⁸⁶ W 3492.67(17)	0.051(4)	0.00084(7)	¹⁸³ W 7410.99(7)	0.071(4)	0.00117(7)
¹⁸⁶ W 3510.72(19)	0.033(4)	0.00054(7)			
¹⁸⁶ W 3529.69(18)	0.040(4)	0.00066(7)	Rhenium (Z=75), At. Wt.=186.207(1), σ_{γ}=91.5(10)		
¹⁸⁶ W 3534.56(17)	0.063(5)	0.00104(8)	¹⁸⁵ Re 40.3510(20)	0.61(11)	0.0099(18)
¹⁸⁶ W 3561.14(14)	0.060(4)	0.00099(7)	¹⁸⁵ Re 56.408(3)	0.106(20)	0.0017(3)
¹⁸⁶ W 3577.2(4)	0.016(4)	0.00026(7)	¹⁸⁵ Re 59.0100(20)	5.5(8)	0.090(13)
¹⁸³ W 3696.2(4)	0.011(3)	1.8(5) $\times 10^{-4}$	¹⁸⁵ Re 61.927(4)	0.51(7)	0.0083(11)
¹⁸⁶ W 3710.1(4)	0.034(8)	0.00056(13)	¹⁸⁷ Re 63.5820(20)	8.0(14)	0.130(23)
¹⁸⁶ W 3739.05(17)	0.069(4)	0.00114(7)	¹⁸⁷ Re 72.047(9)	0.41(5)	0.0067(8)
¹⁸⁶ W 3760.9(3)	0.026(3)	0.00043(5)	¹⁸⁵ Re 74.5690(20)	0.64(9)	0.0104(15)
¹⁸⁶ W 3774.59(21)	0.026(3)	0.00043(5)	¹⁸⁷ Re 74.8630(20)	1.29(8)	0.0210(13)
¹⁸⁶ W 3804.7(4)	0.020(3)	0.00033(5)	¹⁸⁷ Re 85.323(7)	0.109(21)	0.0018(3)
¹⁸⁶ W 3847.8(4)	0.051(4)	0.00084(7)	¹⁸⁵ Re 86.83(3)	0.102(24)	0.0017(4)
¹⁸³ W 3864.4(4)	0.011(3)	1.8(5) $\times 10^{-4}$	¹⁸⁵ Re 87.264(3)	0.84(4)	0.0137(7)
¹⁸⁶ W 3886.4(3)	0.014(3)	2.3(5) $\times 10^{-4}$	¹⁸⁷ Re 87.4800(20)	0.113(19)	0.0018(3)
¹⁸⁶ W 3901.8(3)	0.024(3)	0.00040(5)	¹⁸⁷ Re 92.356(3)	0.25(4)	0.0041(7)
¹⁸⁶ W 3920.2(4)	0.017(3)	0.00028(5)	¹⁸⁷ Re 92.4640(20)	1.07(6)	0.0174(10)
¹⁸⁶ W 3964.87(18)	0.034(9)	0.00056(15)	¹⁸⁵ Re 99.3610(20)	0.230(24)	0.0037(4)
¹⁸² W 4014.17(5)	0.050(10)	0.00082(16)	¹⁸⁵ Re 99.698(3)	0.115(24)	0.0019(4)
¹⁸⁶ W 4018.1(5)	0.029(6)	0.00048(10)	¹⁸⁵ Re 103.310(4)	0.43(3)	0.0070(5)
¹⁸² W 4026.21(10)	0.019(3)	0.00031(5)	¹⁸⁷ Re 105.8620(20)	1.77(8)	0.0288(13)
¹⁸² W 4064.48(9)	0.018(3)	0.00030(5)	¹⁸⁵ Re 106.550(4)	0.27(4)	0.0044(7)
¹⁸⁶ W 4082.8(5)	0.051(11)	0.00084(18)	¹⁸⁷ Re 107.425(3)	0.352(25)	0.0057(4)
¹⁸⁶ W 4119.24(10)	0.059(4)	0.00097(7)	¹⁸⁵ Re 108.336(5)	0.085(19)	0.0014(3)
¹⁸⁶ W 4136.61(17)	0.034(5)	0.00056(8)	¹⁸⁵ Re 110.240(4)	0.089(16)	0.0014(3)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0	E_{γ} -keV	$\sigma(E_{\gamma})$ -barns	k_0
Rhenium (Z=75), continued			Rhenium (Z=75), continued		
¹⁸⁵ Re 111.337(4)	0.58(9)	0.0094(15)	¹⁸⁵ Re 257.447(9)	0.87(23)	0.014(4)
¹⁸⁷ Re 111.590(3)	0.45(5)	0.0073(8)	¹⁸⁵ Re 260.67(7)	0.13(3)	0.0021(5)
¹⁸⁵ Re 111.679(5)	0.68(12)	0.0111(20)	¹⁸⁵ Re 261.264(15)	0.67(3)	0.0109(5)
¹⁸⁵ Re 111.814(4)	0.37(7)	0.0060(11)	¹⁸⁵ Re 263.367(5)	0.106(24)	0.0017(4)
¹⁸⁷ Re 115.155(3)	0.43(5)	0.0070(8)	¹⁸⁷ Re 266.155(20)	0.125(15)	0.00203(24)
¹⁸⁷ Re 115.155(3)	0.28(3)	0.0046(5)	¹⁸⁷ Re 274.298(5)	0.80(6)	0.0130(10)
¹⁸⁵ Re 117.94(10)	0.22(4)	0.0036(7)	¹⁸⁷ Re 275.510(9)	0.51(4)	0.0083(7)
¹⁸⁵ Re 118.196(4)	0.106(20)	0.0017(3)	¹⁸⁷ Re 284.590(17)	0.27(5)	0.0044(8)
¹⁸⁵ Re 122.521(4)	0.74(4)	0.0120(7)	¹⁸⁵ Re 285.095(23)	0.41(4)	0.0067(7)
¹⁸⁵ Re 123.507(6)	0.16(3)	0.0026(5)	¹⁸⁵ Re 287.0(3)	0.12(3)	0.0020(5)
¹⁸⁵ Re 127.354(3)	0.43(4)	0.0070(7)	¹⁸⁷ Re 290.665(6)	3.5(4)	0.057(7)
¹⁸⁷ Re 128.553(4)	0.105(12)	0.00171(20)	¹⁸⁷ Re 291.492(8)	0.94(7)	0.0153(11)
¹⁸⁷ Re 129.973(4)	0.090(15)	0.00146(24)	¹⁸⁷ Re 299.130(9)	0.151(14)	0.00246(23)
¹⁸⁷ Re 131.080(4)	0.42(5)	0.0068(8)	¹⁸⁷ Re 300.210(4)	0.70(5)	0.0114(8)
¹⁸⁵ Re 137.157(8)d	5.29(3)	0.0861(<0.1%)	¹⁸⁵ Re 307.673(16)	0.34(3)	0.0055(5)
¹⁸⁷ Re 138.725(5)	0.19(3)	0.0031(5)	¹⁸⁵ Re 316.457(9)	2.21(10)	0.0360(16)
¹⁸⁵ Re 139.417(6)	0.136(19)	0.0022(3)	¹⁸⁷ Re 317.38(5)	0.083(17)	0.0014(3)
¹⁸⁵ Re 140.095(5)	0.27(5)	0.0044(8)	¹⁸⁷ Re 318.37(3)	0.25(3)	0.0041(5)
¹⁸⁵ Re 141.257(5)	0.19(3)	0.0031(5)	¹⁸⁵ Re 319.374(9)	0.18(3)	0.0029(5)
¹⁸⁷ Re 141.760(4)	1.46(8)	0.0238(13)	¹⁸⁷ Re 352.11(3)	0.116(16)	0.0019(3)
¹⁸⁷ Re 143.124(4)	0.090(15)	0.00146(24)	¹⁸⁵ Re 355.646(17)	0.115(16)	0.0019(3)
¹⁸⁵ Re 143.917(4)	0.55(8)	0.0090(13)	¹⁸⁵ Re 358.11(10)	0.236(19)	0.0038(3)
¹⁸⁵ Re 144.152(5)	1.8(3)	0.029(5)	¹⁸⁵ Re 360.36(7)	0.449(25)	0.0073(4)
¹⁸⁵ Re 144.157(4)	0.15(15)	0.0024(24)	¹⁸⁷ Re 362.712(9)	0.46(3)	0.0075(5)
¹⁸⁷ Re 145.155(5)	0.44(5)	0.0072(8)	¹⁸⁵ Re 363.612(8)	0.16(4)	0.0026(7)
¹⁸⁷ Re 145.155(5)	0.28(3)	0.0046(5)	¹⁸⁷ Re 376.816(10)	0.083(16)	0.0014(3)
¹⁸⁵ Re 147.415(5)	0.60(9)	0.0098(15)	¹⁸⁵ Re 378.384(9)	0.54(3)	0.0088(5)
¹⁸⁵ Re 147.417(6)	0.47(5)	0.0076(8)	¹⁸⁵ Re 390.854(23)	1.15(5)	0.0187(8)
¹⁸⁵ Re 148.989(4)	0.29(7)	0.0047(11)	¹⁸⁷ Re 406.555(9)	0.18(4)	0.0029(7)
¹⁸⁵ Re 149.520(5)	0.44(5)	0.0072(8)	¹⁸⁵ Re 407.05(16)	0.102(24)	0.0017(4)
¹⁸⁷ Re 150.970(4)	0.24(3)	0.0039(5)	¹⁸⁵ Re 410.74(15)	0.10(3)	0.0016(5)
¹⁸⁵ Re 151.688(3)	1.15(7)	0.0187(11)	¹⁸⁵ Re 411.496(10)	0.14(3)	0.0023(5)
¹⁸⁷ Re 155.041(4)d	7.16(25)	0.117(2.0%)	¹⁸⁵ Re 413.19(5)	0.16(4)	0.0026(7)
¹⁸⁷ Re 156.424(4)	0.73(8)	0.0119(13)	¹⁸⁷ Re 423.525(21)	0.12(3)	0.0020(5)
¹⁸⁷ Re 158.730(20)	0.15(4)	0.0024(7)	¹⁸⁷ Re 426.112(9)	0.13(3)	0.0021(5)
¹⁸⁵ Re 164.466(8)	0.085(21)	0.0014(3)	¹⁸⁵ Re 439.09(23)	0.14(5)	0.0023(8)
¹⁸⁷ Re 167.327(3)	1.46(6)	0.0238(10)	¹⁸⁵ Re 469.79(10)	0.09(3)	0.0015(5)
¹⁸⁵ Re 167.735(4)	0.20(4)	0.0033(7)	¹⁸⁵ Re 479.6(3)	0.30(13)	0.0049(21)
¹⁸⁵ Re 169.434(4)	0.108(23)	0.0018(4)	¹⁸⁷ Re 493.23(6)	0.10(3)	0.0016(5)
¹⁸⁵ Re 174.267(3)	0.382(24)	0.0062(4)	¹⁸⁵ Re 496.57(14)	0.15(4)	0.0024(7)
¹⁸⁵ Re 176.103(5)	0.18(3)	0.0029(5)	¹⁸⁷ Re 518.575(9)	0.24(6)	0.0039(10)
¹⁸⁵ Re 176.552(8)	0.31(3)	0.0050(5)	¹⁸⁵ Re 550.77(23)	0.15(4)	0.0024(7)
¹⁸⁷ Re 178.138(5)	0.26(3)	0.0042(5)	¹⁸⁷ Re 556.81(6)	0.13(4)	0.0021(7)
¹⁸⁷ Re 178.839(6)	0.20(3)	0.0033(5)	¹⁸⁵ Re 585.4(3)	0.18(3)	0.0029(5)
¹⁸⁵ Re 179.448(6)	0.115(21)	0.0019(3)	¹⁸⁵ Re 608.25(14)	0.25(3)	0.0041(5)
¹⁸⁷ Re 181.942(5)	0.388(25)	0.0063(4)	¹⁸⁷ Re 609.04(3)	0.25(3)	0.0041(5)
¹⁸⁷ Re 188.813(6)	0.98(10)	0.0159(16)	¹⁸⁵ Re 645.02(14)	0.18(3)	0.0029(5)
¹⁸⁷ Re 189.33(11)	0.284(24)	0.0046(4)	¹⁸⁵ Re 680.49(10)	0.34(3)	0.0055(5)
¹⁸⁵ Re 189.346(8)	0.33(5)	0.0054(8)	¹⁸⁵ Re 759.94(14)	0.17(5)	0.0028(8)
¹⁸⁷ Re 193.342(3)	0.43(3)	0.0070(5)	¹⁸⁵ Re 761.47(23)	0.17(5)	0.0028(8)
¹⁸⁵ Re 199.337(16)	0.91(4)	0.0148(7)	¹⁸⁵ Re 796.1(3)	0.31(3)	0.0050(5)
¹⁸⁷ Re 199.513(5)	1.02(10)	0.0166(16)	¹⁸⁵ Re 3933.7(8)	0.09(4)	0.0015(7)
¹⁸⁵ Re 200.997(7)	0.098(16)	0.0016(3)	¹⁸⁵ Re 4079.0(8)	0.14(3)	0.0023(5)
¹⁸⁷ Re 205.342(4)	0.37(8)	0.0060(13)	¹⁸⁵ Re 4099.8(10)	0.13(3)	0.0021(5)
¹⁸⁷ Re 207.853(4)	4.44(21)	0.072(3)	¹⁸⁵ Re 4129.4(8)	0.100(24)	0.0016(4)
¹⁸⁷ Re 208.843(7)	0.98(10)	0.0159(16)	¹⁸⁵ Re 4178.1(5)	0.088(22)	0.0014(4)
¹⁸⁵ Re 209.785(4)	0.14(3)	0.0023(5)	¹⁸⁵ Re 4455.7(23)	0.11(3)	0.0018(5)
¹⁸⁵ Re 210.698(4)	1.50(10)	0.0244(16)	¹⁸⁵ Re 4611.3(5)	0.081(20)	0.0013(3)
¹⁸⁷ Re 211.53(3)	0.27(5)	0.0044(8)	¹⁸⁵ Re 4631.7(23)	0.085(23)	0.0014(4)
¹⁸⁵ Re 214.647(4)	2.53(14)	0.0412(23)	¹⁸⁵ Re 4663.7(4)	0.24(3)	0.0039(5)
¹⁸⁷ Re 216.033(4)	0.30(7)	0.0049(11)	¹⁸⁵ Re 4743.5(8)	0.113(21)	0.0018(3)
¹⁸⁷ Re 219.445(7)	0.67(9)	0.0109(15)	¹⁸⁵ Re 4773.7(5)	0.18(3)	0.0029(5)
¹⁸⁵ Re 219.74(5)	0.081(15)	0.00132(24)	¹⁸⁵ Re 4860.7(5)	0.37(4)	0.0060(7)
¹⁸⁵ Re 223.016(5)	0.24(6)	0.0039(10)	¹⁸⁵ Re 4871.7(8)	0.11(3)	0.0018(5)
¹⁸⁷ Re 223.544(5)	0.083(9)	0.00135(15)	¹⁸⁷ Re 4888.6(3)	0.141(25)	0.0023(4)
¹⁸⁷ Re 227.083(6)	1.78(12)	0.0290(20)	¹⁸⁷ Re 4893.4(3)	0.081(17)	0.0013(3)
¹⁸⁵ Re 232.100(16)	0.36(7)	0.0059(11)	¹⁸⁷ Re 4916.3(3)	0.102(21)	0.0017(3)
¹⁸⁵ Re 232.111(9)	0.24(4)	0.0039(7)	¹⁸⁷ Re 4958.7(5)	0.14(3)	0.0023(5)
¹⁸⁷ Re 236.627(4)	1.45(10)	0.0236(16)	¹⁸⁷ Re 4973.1(5)	0.15(3)	0.0024(5)
¹⁸⁷ Re 238.450(5)	0.147(24)	0.0024(4)	¹⁸⁷ Re 4987.9(4)	0.17(4)	0.0028(7)
¹⁸⁷ Re 246.33(3)	0.091(14)	0.00148(23)	¹⁸⁷ Re 5000.8(4)	0.17(4)	0.0028(7)
¹⁸⁷ Re 251.243(5)	1.80(23)	0.029(4)	¹⁸⁵ Re 5007.0(5)	0.27(4)	0.0044(7)
¹⁸⁵ Re 251.842(15)	0.58(16)	0.009(3)	¹⁸⁷ Re 5012.60(25)	0.18(3)	0.0029(5)
¹⁸⁵ Re 254.998(4)	1.15(5)	0.0187(8)	¹⁸⁷ Re 5020.6(4)	0.098(23)	0.0016(4)
¹⁸⁷ Re 256.924(3)	0.66(23)	0.011(4)	¹⁸⁵ Re 5027.9(4)	0.29(5)	0.0047(8)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Iridium (Z=77), continued			Iridium (Z=77), continued		
E γ -keV	$\sigma(E\gamma)$ -barns	k_0	E γ -keV	$\sigma(E\gamma)$ -barns	k_0
¹⁹¹ Ir	95.056(6)	0.24(5)	¹⁹¹ Ir	193.718(3)	0.83(11)
¹⁹¹ Ir	95.470(4)	0.9(3)	¹⁹³ Ir	193.9300(20)	0.21(13)
¹⁹³ Ir	95.5690(10)	0.8(5)	¹⁹¹ Ir	195.433(4)	0.27(7)
¹⁹¹ Ir	97.347(3)	0.25(5)	¹⁹³ Ir	195.5270(10)	0.21(13)
¹⁹¹ Ir	97.348(4)	0.36(14)	¹⁹¹ Ir	197.061(7)	0.73(19)
¹⁹¹ Ir	98.524(4)	0.32(5)	¹⁹³ Ir	198.8370(20)	0.15(9)
¹⁹¹ Ir	99.603(6)	0.24(13)	¹⁹¹ Ir	199.174(7)	1.07(18)
¹⁹³ Ir	100.4030(20)	0.13(8)	¹⁹¹ Ir	199.418(5)	0.14(4)
¹⁹¹ Ir	104.043(9)	0.13(4)	¹⁹¹ Ir	201.111(5)	0.21(6)
¹⁹¹ Ir	105.159(3)	0.14(6)	¹⁹¹ Ir	203.015(3)	0.27(4)
¹⁹¹ Ir	107.015(3)	0.20(7)	¹⁹¹ Ir	206.220(4)	3.70(18)
¹⁹¹ Ir	107.132(4)	0.23(6)	¹⁹¹ Ir		0.058(3)
¹⁹¹ Ir	108.0300(20)	2.62(12)	¹⁹¹ Ir	207.301(5)	0.50(6)
¹⁹¹ Ir	108.658(4)	0.11(3)	¹⁹¹ Ir	208.440(6)	0.70(9)
¹⁹¹ Ir	110.352(3)	0.53(7)	¹⁹¹ Ir	210.352(5)	0.75(8)
¹⁹¹ Ir	111.025(3)	0.99(11)	¹⁹¹ Ir	210.354(5)	0.75(8)
¹⁹³ Ir	112.2310(10)	1.7(4)	¹⁹¹ Ir	210.354(5)	2.1(4)
¹⁹³ Ir	115.4730(10)	0.5(3)	¹⁹³ Ir	212.3460(20)	0.15(10)
¹⁹³ Ir	117.8790(10)	0.4(3)	¹⁹¹ Ir	215.117(5)	0.23(4)
¹⁹¹ Ir	118.268(3)	0.15(3)	¹⁹¹ Ir	215.5110(20)	0.24(4)
¹⁹¹ Ir	118.7820(10)	0.56(7)	¹⁹¹ Ir	216.1940(20)	0.65(9)
¹⁹¹ Ir	121.139(3)	0.17(7)	¹⁹¹ Ir	216.905(4)	5.57(24)
¹⁹¹ Ir	122.596(3)	0.41(7)	¹⁹¹ Ir		0.088(4)
¹⁹³ Ir	123.8450(10)	1.0(6)	¹⁹¹ Ir	221.90(10)	0.83(16)
¹⁹¹ Ir	126.958(3)	1.86(10)	¹⁹¹ Ir	223.176(6)	0.18(3)
¹⁹³ Ir	132.8790(20)	0.18(10)	¹⁹³ Ir	224.0830(20)	0.18(11)
¹⁹¹ Ir	133.925(6)	0.19(5)	¹⁹³ Ir	225.4180(20)	0.12(7)
¹⁹³ Ir	136.1000(20)	0.17(11)	¹⁹¹ Ir	226.2980(20)	4.0(4)
¹⁹¹ Ir	136.1250(10)	6.5(9)	¹⁹³ Ir		0.063(6)
¹⁹¹ Ir	136.213(3)	4.0(5)	¹⁹³ Ir	226.6390(10)	0.20(12)
¹⁹¹ Ir	136.7910(10)	2.20(21)	¹⁹¹ Ir	226.722(5)	0.19(4)
¹⁹¹ Ir	138.2480(20)	0.53(7)	¹⁹³ Ir	228.0650(20)	0.12(8)
¹⁹³ Ir	138.6880(10)	0.8(5)	¹⁹¹ Ir	229.771(11)	0.48(11)
¹⁹¹ Ir	139.736(5)	0.27(4)	¹⁹¹ Ir	231.683(3)	0.95(13)
¹⁹¹ Ir	140.257(6)	0.32(5)	¹⁹¹ Ir	232.907(4)	0.20(4)
¹⁹¹ Ir	140.814(6)	0.16(5)	¹⁹³ Ir	234.8190(20)	0.44(13)
¹⁹³ Ir	143.5940(10)	0.6(3)	¹⁹¹ Ir	241.867(7)	0.65(13)
¹⁹¹ Ir	144.849(4)	0.57(9)	¹⁹³ Ir	245.1090(20)	0.14(9)
¹⁹¹ Ir	144.903(5)	3.1(4)	¹⁹³ Ir	245.4920(20)	0.33(22)
¹⁹³ Ir	145.2220(10)	0.11(7)	¹⁹¹ Ir	246.169(3)	0.15(4)
¹⁹¹ Ir	148.821(3)	1.08(12)	¹⁹¹ Ir	246.800(4)	0.32(9)
¹⁹¹ Ir	148.822(3)	1.08(12)	¹⁹³ Ir	248.6000(20)	0.24(15)
¹⁹³ Ir	148.9340(10)	1.4(9)	¹⁹³ Ir	252.2750(10)	0.11(7)
¹⁹¹ Ir	151.450(5)	0.26(5)	¹⁹¹ Ir	252.499(12)	0.5(3)
¹⁹¹ Ir	151.5640(20)	2.89(20)	¹⁹¹ Ir	254.277(4)	1.08(11)
¹⁹³ Ir	152.4080(10)	0.37(23)	¹⁹³ Ir	255.3130(20)	0.36(13)
¹⁹³ Ir	152.942(11)	0.55(13)	¹⁹¹ Ir	258.320(5)	0.24(5)
¹⁹³ Ir	153.0550(10)	0.5(3)	¹⁹¹ Ir	261.953(6)	2.02(23)
¹⁹¹ Ir	156.0870(20)	1.02(12)	¹⁹¹ Ir		0.038(8)
¹⁹¹ Ir	156.654(3)	2.76(12)	¹⁹³ Ir	262.03(10)	3.05(18)
¹⁹¹ Ir	158.180(4)	0.15(4)	¹⁹³ Ir		0.048(3)
¹⁹³ Ir	160.8250(20)	0.34(11)	¹⁹³ Ir	262.7290(10)	0.14(8)
¹⁹³ Ir	160.9980(10)	0.4(3)	¹⁹¹ Ir	263.573(6)	0.86(10)
¹⁹³ Ir	162.7740(20)	0.24(15)	¹⁹¹ Ir	264.008(7)	0.57(7)
¹⁹¹ Ir	162.850(6)	0.14(3)	¹⁹³ Ir	264.7680(20)	0.8(5)
¹⁹³ Ir	165.3800(20)	0.27(23)	¹⁹¹ Ir	267.415(4)	0.93(21)
¹⁹³ Ir	165.4500(20)	0.35(22)	¹⁹³ Ir	271.6810(20)	0.6(4)
¹⁹¹ Ir	166.089(5)	0.89(10)	¹⁹¹ Ir	273.235(8)	0.49(8)
¹⁹¹ Ir	166.435(4)	0.24(4)	¹⁹¹ Ir	273.236(7)	0.72(17)
¹⁹¹ Ir	169.196(3)	3.05(13)	¹⁹¹ Ir	273.568(5)	0.18(6)
¹⁹¹ Ir	169.542(5)	0.52(7)	¹⁹¹ Ir	275.0380(20)	0.74(16)
¹⁹¹ Ir	169.542(4)	0.52(7)	¹⁹³ Ir	275.2990(10)	0.6(4)
¹⁹³ Ir	169.5660(10)	0.24(15)	¹⁹¹ Ir	276.787(4)	0.55(12)
¹⁹³ Ir	169.8760(10)	0.15(9)	¹⁹¹ Ir	278.193(8)	0.42(5)
¹⁹¹ Ir	172.839(3)	0.53(24)	¹⁹³ Ir	278.5040(10)	1.8(11)
¹⁹¹ Ir	174.139(8)	0.21(4)	¹⁹¹ Ir		0.028(17)
¹⁹³ Ir	176.6510(20)	0.15(10)	¹⁹¹ Ir	284.074(6)	1.95(15)
¹⁹¹ Ir	176.812(3)	0.6(4)	¹⁹¹ Ir		0.0307(24)
¹⁹¹ Ir	177.919(7)	0.28(6)	¹⁹¹ Ir	284.947(3)	0.52(7)
¹⁹¹ Ir	179.0380(20)	2.1(5)	¹⁹³ Ir	288.4310(20)	0.12(7)
¹⁹¹ Ir	183.626(3)	1.0(4)	¹⁹¹ Ir	292.374(4)	0.42(12)
¹⁹³ Ir	184.6870(20)	0.92(22)	¹⁹³ Ir	293.541(14)d	1.76(6)
¹⁹¹ Ir	187.521(3)	0.43(5)	¹⁹³ Ir		0.0277(1.8%)
¹⁹¹ Ir	188.204(3)	0.52(23)	¹⁹¹ Ir	294.5300(20)	0.41(25)
¹⁹¹ Ir	189.100(7)	0.47(18)	¹⁹¹ Ir	296.257(8)	0.65(17)
			¹⁹¹ Ir	299.476(8)	0.13(4)
			¹⁹¹ Ir	302.905(8)	1.20(11)
			¹⁹¹ Ir		0.0189(17)
			¹⁹¹ Ir	305.448(4)	0.45(10)
			¹⁹³ Ir	308.9740(10)	0.6(4)
			¹⁹¹ Ir	310.010(6)	0.26(8)
			¹⁹¹ Ir	310.08(10)	0.61(10)
			¹⁹³ Ir	311.4960(10)	0.16(10)
			¹⁹¹ Ir	311.630(6)	0.23(6)

Table I. Adopted Prompt and Decay Gamma Rays from Thermal Neutron Capture for all Elements, continued

Uranium (Z=92), continued			Uranium (Z=92), continued				
E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0	E_γ -keV	$\sigma(E_\gamma)$ -barns	k_0		
²³⁵ U	202.110(20)	6.21(13) s ⁻¹ g ⁻¹	²³⁸ U	1029.32(5)	0.037(8)	0.00047(10)	
²³⁵ U	205.311(10)	28.8(4) s ⁻¹ g ⁻¹	²³⁸ U	1048.85(8)	0.012(4)	1.5(5)×10 ⁻⁴	
²³⁸ Np	209.7530(20)d	0.0909(13)	0.001157[<0.1%]	²³⁸ U	1060.82(8)	0.016(4)	2.0(5)×10 ⁻⁴
²³⁵ U	215.28(3)	0.167(17) s ⁻¹ g ⁻¹	²³⁸ U	1062.48(6)	0.0079(20)	1.01(25)×10 ⁻⁴	
²³⁵ U	221.380(20)	0.69(6) s ⁻¹ g ⁻¹	²³⁸ U	1066.82(12)	0.030(6)	0.00038(8)	
²³⁸ Np	228.1830(10)d	0.286(5)	0.00364[<0.1%]	²³⁸ U	1089.50(5)	0.014(4)	1.8(5)×10 ⁻⁴
²³⁵ U	228.78(5)	0.0400(3) s ⁻¹ g ⁻¹	²³⁸ U	1110.27(6)	0.010(4)	1.3(5)×10 ⁻⁴	
²³⁵ U	233.50(3)	0.17(3) s ⁻¹ g ⁻¹	²³⁸ U	1149.8(3)	0.010(4)	1.3(5)×10 ⁻⁴	
²³⁵ U	240.87(3)	0.43(4) s ⁻¹ g ⁻¹	²³⁸ U	1152.80(6)	0.010(4)	1.3(5)×10 ⁻⁴	
²³⁵ U	243.60(20)	0.023(3)	0.00029(4)	²³⁸ U	1155.05(4)	0.010(4)	1.3(5)×10 ⁻⁴
²³⁵ U	246.84(4)	0.305(17) s ⁻¹ g ⁻¹	²³⁸ U	1167.01(4)	0.020(6)	0.00025(8)	
²³⁸ U	250.062(7)	0.034(12)	0.00043(15)	²³⁵ U	1279.01(10) ^f	0.200(10)	0.00255(13)
²³⁵ U	275.129	0.30(3) s ⁻¹ g ⁻¹		²³⁸ U	2998.5(5)	0.012(4)	1.5(5)×10 ⁻⁴
²³⁵ U	275.43(10)	0.040(12) s ⁻¹ g ⁻¹		²³⁸ U	3089.4(5)	0.0071(24)	9(3)×10 ⁻⁵
²³⁸ Np	277.5990(10)d	0.382(6)	0.00486[<0.1%]	²³⁸ U	3114.2(5)	0.007(3)	9(4)×10 ⁻⁵
²³⁵ U	289.56(4)	0.0400(3) s ⁻¹ g ⁻¹		²³⁸ U	3121.7(5)	0.008(3)	1.0(4)×10 ⁻⁴
²³⁵ U	291.65(3)	0.23(3) s ⁻¹ g ⁻¹		²³⁸ U	3175.2(5)	0.0067(22)	9(3)×10 ⁻⁵
²³⁸ U	292.5870(20)	0.016(6)	2.0(8)×10 ⁻⁴	²³⁸ U	3191.7(5)	0.0047(16)	6.0(20)×10 ⁻⁵
²³⁵ U	297.00(10) ^f	0.220(20)	0.00280(25)	²³⁸ U	3197.2(5)	0.016(6)	2.0(8)×10 ⁻⁴
²³⁵ U	300.00(10)	0.016(3)	2.0(4)×10 ⁻⁴	²³⁸ U	3220.1(5)	0.012(4)	1.5(5)×10 ⁻⁴
²³⁸ Np	315.880(3)d	0.0425(8)	0.000541[<0.1%]	²³⁸ U	3233.2(5)	0.010(3)	1.3(4)×10 ⁻⁴
²³⁸ Np	334.3100(20)d	0.0550(8)	0.000700[<0.1%]	²³⁸ U	3286.12(20)	0.0040(3)	5.1(4)×10 ⁻⁵
²³⁵ U	345.90(3)	0.23(3) s ⁻¹ g ⁻¹		²³⁸ U	3296.5(3)	0.0070(5)	8.9(6)×10 ⁻⁵
²³⁵ U	387.82(3)	0.23(3) s ⁻¹ g ⁻¹		²³⁸ U	3312.8(5)	0.0040(10)	5.1(13)×10 ⁻⁵
²³⁸ U	451.213(23)	0.010(4)	1.3(5)×10 ⁻⁴	²³⁸ U	3445.44(6)	0.0045(3)	5.7(4)×10 ⁻⁵
²³⁸ U	478.79(8)	0.012(4)	1.5(5)×10 ⁻⁴	²³⁸ U	3564.45(9)	0.0042(4)	5.3(5)×10 ⁻⁵
²³⁸ U	496.753(11)	0.034(8)	0.00043(10)	²³⁸ U	3583.10(7)	0.042(3)	0.00053(4)
²³⁸ U	521.849(7)	0.073(3)	0.00093(4)	²³⁸ U	3611.78(9)	0.0146(10)	1.86(13)×10 ⁻⁴
²³⁸ U	535.45(5)	0.028(6)	0.00036(8)	²³⁸ U	3639.39(6)	0.0122(8)	1.55(10)×10 ⁻⁴
²³⁸ U	537.26(3)	0.0079(20)	1.01(25)×10 ⁻⁴	²³⁸ U	3651.36(6)	0.0069(5)	8.8(6)×10 ⁻⁵
¹³⁹ Ba	537.261(9)d	0.066(3)	0.00084[<0.1%]	²³⁸ U	3739.59(13)	0.0038(3)	4.8(4)×10 ⁻⁵
²³⁸ U	539.278(12)	0.099(20)	0.00126(25)	²³⁸ U	3844.56(21)	0.0068(5)	8.7(6)×10 ⁻⁵
²³⁸ U	542.085(12)	0.024(6)	0.00031(8)	²³⁸ U	3982.69(5)	0.0259(14)	0.000330(18)
²³⁸ U	552.069(5)	0.207(5)	0.00264(6)	²³⁸ U	3991.25(5)	0.0241(12)	0.000307(15)
²³⁸ U	554.054(8)	0.085(20)	0.00108(25)	²³⁸ U	4060.35(5)	0.186(3)	0.00237(4)
²³⁸ U	554.10(8)	0.028(6)	0.00036(8)	²³⁸ U	4067.02(5)	0.0073(4)	9.3(5)×10 ⁻⁵
²³⁸ U	562.027(22)	0.032(10)	0.00041(13)				
²³⁸ U	563.17(3)	0.014(4)	1.8(5)×10 ⁻⁴				
²³⁸ U	580.340(13)	0.043(10)	0.00055(13)				
²³⁸ U	582.034(9)	0.016(4)	2.0(5)×10 ⁻⁴				
²³⁸ U	588.88(3)	0.024(6)	0.00031(8)				
²³⁸ U	590.39(3)	0.034(12)	0.00043(15)				
²³⁸ U	592.309(13)	0.045(12)	0.00057(15)				
²³⁸ U	593.612(5)	0.108(24)	0.0014(3)				
²³⁸ U	600.284(10)	0.030(8)	0.00038(10)				
²³⁸ U	605.581(9)	0.053(12)	0.00067(15)				
²³⁸ U	611.38(3)	0.014(4)	1.8(5)×10 ⁻⁴				
²³⁸ U	612.253(5)	0.23(5)	0.0029(6)				
²³⁸ U	629.722(9)	0.073(20)	0.00093(25)				
²³⁸ U	638.505(12)	0.041(12)	0.00052(15)				
²³⁸ U	669.385(13)	0.0039(20)	5.0(25)×10 ⁻⁵				
²³⁸ U	673.307(12)	0.010(4)	1.3(5)×10 ⁻⁴				
²³⁸ U	681.355(9)	0.012(4)	1.5(5)×10 ⁻⁴				
²³⁸ U	687.853(8)	0.028(8)	0.00036(10)				
²³⁸ U	689.907(11)	0.043(10)	0.00055(13)				
²³⁸ U	715.832(9)	0.022(6)	0.00028(8)				
²³⁸ U	767.86(21)	0.020(6)	0.00025(8)				
²³⁸ U	787.15(7)	0.020(6)	0.00025(8)				
²³⁸ U	794.21(8)	0.020(6)	0.00025(8)				
²³⁸ U	799.12(7)	0.0079(20)	1.01(25)×10 ⁻⁴				
²³⁸ U	819.868(21)	0.010(4)	1.3(5)×10 ⁻⁴				
²³⁸ U	828.04(21)	0.024(6)	0.00031(8)				
²³⁸ U	831.837(19)	0.053(12)	0.00067(15)				
²³⁸ U	842.42(8)	0.024(6)	0.00031(8)				
²³⁸ U	853.23(4)	0.055(12)	0.00070(15)				
²³⁸ U	893.30(10)	0.016(4)	2.0(5)×10 ⁻⁴				
²³⁵ U	909.06(6)	0.026(4)	0.00033(5)				
²³⁵ U	943.14(7)	0.082(10)	0.00104(13)				
²³⁸ U	961.06(4)	0.0039(20)	5.0(25)×10 ⁻⁵				
²³⁸ U	990.49(3)	0.010(4)	1.3(5)×10 ⁻⁴				
²³⁸ U	1007.03(6)	0.0079(20)	1.01(25)×10 ⁻⁴				
²³⁸ U	1007.03(6)	0.0079(20)	1.01(25)×10 ⁻⁴				
²³⁵ U	1014.1(10)	0.026(4)	0.00033(5)				
²³⁸ U	1021.25(4)	0.0079(20)	1.01(25)×10 ⁻⁴				
²³⁸ U	1021.25(4)	0.0079(20)	1.01(25)×10 ⁻⁴				

f spontaneous fission to ¹³⁴Te