

Thallium-204 measures the dust and pollutant levels on filter paper... and gauges the thickness of plastics, sheet metal, rubber, textiles and paper.

- Atomic Mass: 203.9738486 +- 0.0000031 amu
- Excess Mass: -24359.825 +- 2.933 keV
- Binding Energy: 1607539.053 +- 2.946 keV
- Beta Decay Energy: B- 763.718 +- 0.177 keV

"The 1995 update to the atomic mass evaluation" by G.Audi and A.H.Wapstra, Nuclear Physics A595 vol. 4 p.409-480, December 25, 1995.

- Spin: 2-
- Half life: 3.78 years
- Mode of decay: [Beta](#) to [Pb-204](#)
 - Branch ratio: 97.10 %
 - Decay energy: 0.764 MeV
- Mode of decay: [Electron capture](#) to [Hg-204](#)
 - Branch ratio: 2.90 %
 - Decay energy: 0.347 MeV

R.R.Kinsey, et al.,*The NUDAT/PCNUDAT Program for Nuclear Data*,paper submitted to the 9 th International Symposium of Capture-Gamma_raySpectroscopy and Related Topics, Budapest, Hungary, Octover 1996.Data extracted from NUDAT database (Jan. 14/1999)

Magnetic Dipole Moments and Electric Quadrupole Moments					
Ex(kev)	T _{1/2}	Spin	m(nm)	Q(b)	Ref. Std.MethodReference
0	3.78 y	2-	0.09(1)		AB HFI 1 437 (76)
1104	63 ms	(7)+	+1.187(6)		TDPAD NP A195 577 (72)

N. J. Stone, [Table of Nuclear Magnetic Dipole and Electric Quadrupole Moments](#), to be published. 2000 Courtesy of T. Burrows at BNL/NNDC.